

UTAH VALLEY UNIVERSITY

GRADUATE & UNDERGRADUATE CATALOG



UVU

FALL 2018-SUMMER 2019

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President Astrid S. Tuminez



Welcome to Utah Valley University!

At UVU we believe in the power of dreams and the ability to achieve them.

Your dreams can take you anywhere. Your imagination, combined with the acquisition and implementation of knowledge, can put you on the path to success — academically, professionally, and personally.

As part of our mission ethos, we are champions of learning by doing. We call it engaged learning. This approach takes the best learning from textbooks, research, and class lectures and combines it with a myriad of opportunities for practical application. Since our founding more than 75 years ago, we have created connections that help our students expand their horizons and become better prepared to enrich society and the world around them. The world is dynamic, and we believe higher education should reflect that.

Each UVU student, with her or his unique characteristics and background, is important to the whole of the university and plays a crucial role in the vibrancy of our community. I invite you to be actively engaged in your life as students, enjoying the many extracurricular activities and athletic offerings on our campus as you complete your degree. Be assured that the seriousness with which you pursue your studies will be richly complemented and supported by a comprehensive network of invested faculty, staff, and administrators. Together, these women and men will ensure that UVU is a place of exceptional care, exceptional accountability, and exceptional results.

I encourage you to explore the pages of UVU's course catalog. Our wide range of offerings in certificate programs and associate, bachelor, and graduate degrees reflects our approach to higher education. This integrated model of education, combining career and technical education alongside more traditional academic degree programs, produces first-rate scholars and practitioners in highly sought-after fields. No matter your background or interests, there is a place for you at UVU. So, come as you are — bring your dreams.

Go Wolverines!

Best wishes,



Dr. Astrid S. Tuminez

Academic Calendar Fall 2018 – Summer 2019

General Calendar Dates	Fall Semester 2018	Spring Semester 2019	Summer Term 2019
Faculty Return	Monday, August 13	Wednesday, January 2	Monday May 6
Regular Classes Begin	Monday, August 20	Monday, January 7	Wednesday, May 8
Weekend Classes Begin	Fri. & Sat., August 24 & 25	Fri. & Sat., Jan. 11 & 12	Fri.-Sat., May 10 & 11
First Block Classes End	Tuesday, October 9	Thursday, February 21	Friday, June 21
Second Block Classes Begin	Wednesday, October 10	Friday, February 22	Monday, June 24
Regular Classes End	Thursday, December 6	Thursday, April 25	Friday, August 9
Final Exams	Mon.-Thurs., Dec 10 - 13	Mon.-Thurs., Apr 29-May 2	N/A
Weekend Final Exams	Fri. & Sat., Dec 14 & 15	Fri. & Sat., Apr 26 & 27	Fri. & Sat., Jul 19 & 20
Semester/Term End	Saturday, December 15	Thursday, May 2	Friday, August 9
Commencement	N/A	Thursday, May 2	N/A
Convocation	N/A	Friday, May 3	N/A
Holidays	Fall Semester 2018	Spring Semester 2019	Summer Term 2019
Labor Day	Monday, September 3		
Fall Break	Thurs.-Sat., Oct 18-20		
Thanksgiving	Mon.-Sat., Nov. 19-24		
Martin Luther King Jr. Day		Monday, January 21	
Reading Day	Friday, December 7	Friday, April 26	
Washington & Lincoln Day		Monday, February 18	
Spring Break		Mon.-Sat., March 18-23	
Memorial Day			Monday, May 27
Independence Day			Thursday, July 4
Pioneer Day			Wednesday, July 24

Notes: Other calendar options may be available on a limited basis for certain specialized courses.

***NO ACCESS to UVU computing resources as follows:** Fall Break – 5 pm Friday through Sunday; Thanksgiving Holiday—5 pm Wednesday through Sunday; Washington & Lincoln Day Holiday—5pm Friday through Monday; and Spring Break—5 pm Thursday through Sunday. For calendar questions contact Tiffany Evans at tiffany.evans@uvu.edu. For IT questions contact it@uvu.edu

Approved by Academic Calendar Committee 15-Apr-2016

Approved by Academic Affairs Council 19-Apr-2016

Approved by President's Council 21-Apr-2016

Academic Policies & Standards

Academic Year

Introduction

The academic year consists of three semesters: fall, spring, and summer. Fall and spring semesters are each made up of 15 weeks of class work and one week for final exams. The summer semester is 14 weeks in length; most classes are offered in one of two seven-week blocks. The time in classes is adjusted to equal the class time of fall and spring semesters, but there is no final exam period during summer.

Course Administration

UVU reserves the right to cancel any course at any time. Reasons for course cancellations include, but are not limited to, low enrollment in the course, space unavailability, instructor change, loss of instructor, and/or program changes. Students enrolled in the course will be contacted as soon as possible by the appropriate school or college when the university decides to cancel a course.

Class Periods/Credits

All credit hours are computed in semester hours. Three hours of work per week are, on average, expected to earn one semester credit hour; however, one credit hour may include any of the following combinations of work:

1. One hour of lecture, plus a minimum of two hours of personal work outside of class, regardless of delivery mode (One hour of lecture is considered to be 50 minutes per week) ;
2. Three hours in a laboratory, internships, practica, studio work, or other academic work, regardless of delivery mode, with additional outside work in preparation and documentation;
3. Any other combination appropriate to a particular course as determined by the academic department.

All transfer courses taken on a quarter system will be converted to semester hours using a three to two credit ratio. For example, a three credit hour course from a quarter calendar institution transfers to UVU as two semester credits.

Full-time Student Status

Graduate

UVU considers graduate students registered for 9 credits or more per semester or summer to be full-time graduate students. A 9 credit hour minimum load is generally accepted by sponsoring agencies for certifying full-time status.

Undergraduate

UVU considers students registered for 12 credits or more per semester or summer to be full-time students. A 12 credit hour minimum load is generally accepted by sponsoring agencies for certifying full-time status. Financial aid recipients receiving full benefits and students on scholarships are required to carry a minimum of 12 credits per semester.

For students attending only the fall and spring semesters, 15 to 18 credits per semester is generally required to complete associate degree programs within two academic years or bachelors degrees within four academic years, assuming all prerequisites are satisfied (See individual major requirements for exceptions).

Credit Hour Loads in Excess of 20

Students who enroll in 21 or more credit hours in a semester must have approval from the deans of the appropriate schools and/or colleges.

Year Classifications & Credit Hours

Freshman: 0-29 credit hours

Sophomore: 30-59 credit hours

Junior: 60-89 credit hours

Senior: 90 or more credit hours

Grading Policies

Grades are determined by instructors, based upon measures determined by the instructor and department and may include: evaluation of responses, written exercises and examinations, performance exercises and examinations, classroom/laboratory contributions, mastery of pertinent skills, etc. The letter grade "A" is an exceptional grade indicating superior achievement; "B" is a grade indicating commendable mastery; "C" indicates satisfactory mastery and is considered an average grade; "D" indicates substandard progress and insufficient evidence of ability to succeed in sequential courses; "E" (failing) indicates inadequate mastery of pertinent skills or repeated absences from class; "UW" indicates unofficial withdrawal from class.

The following table indicates each grade variant and the equivalent grade points for that variation.

One Credit of:	Equals Grade Points:
A	4.0
A-	3.7
B+	3.4
B	3.0
B-	2.7
C+	2.4

C	2.0
C-	1.7
D+	1.4
D	1.0
D-	0.7
E	0.0
UW	0.0

The following grades are not computed in the GPA:	
W	Official Withdrawal
I	Incomplete
AU	Audit
CR	Credit Granted
NC	No Credit Granted
CEU	Noncredit—Continuing Education Unit
T	In Progress (Temporary Status)

The GPA is determined by dividing the total grade points earned (credit hours times grade in points above) by the number of semester hours attempted.

Students may view final grades electronically on the myUVU system after the end of the semester. **All financial obligations to the Institution and “holds” on academic records must be resolved before college transcripts are issued.**

Incomplete (I) Grades

Students are required to complete all courses for which they are registered by the end of the semester. In some cases, a student may be unable to complete all of the course work because of extenuating circumstances. The term “extenuating circumstances” includes: (1) incapacitating illness which prevents a student from attending classes (usually more than five consecutive class days); (2) a death in the immediate family; (3) change in work schedule as required by employer; or (4) other emergencies deemed acceptable by the instructor.

If circumstances are deemed appropriate, the student may petition the instructor for time beyond the end of the semester to finish the work. If the instructor agrees, an “I” grade will be given. An Incomplete Grade Form indicating work completed and work to be completed must be signed by the student, instructor, and the department chairperson, and turned into the Registrar’s Office at the end of the semester.

“I” grades should not be requested nor given for lack of completion of work because of procrastination or dissatisfaction with the grade earned. Per policy, students must be passing the course and have completed 70% or more of the course work in order to qualify for an incomplete.

Specific arrangements to remove an “I” grade must be made between the student and the instructor. In most circumstances, work to be completed should be finished in the first two or three weeks following the end of the semester in which the “I” was given. Failing to complete the “I” and replace it with the appropriate letter grade may negatively affect any financial aid.

Incomplete work cannot be completed by retaking the class. If such an option is preferred, the student must take the grade earned and then retake the class for a better grade. The grade for the later class will be calculated in the GPA. In all cases, **the “I” grade must be made up within one year.** If it is not, the “I” grade will change to an “E” on the transcript. “I” grades are not computed in the GPA.

Repeating a Course

No additional credit is allowed for repeating a course in which the initial grade was passing unless the course number for the course ends in the letter suffix “R” or “Z” (a course designed to be repeatable for credit). For other repeated courses, the most recent grade will be used in the calculation of the GPA. Upon successful completion of the repeated course, the repeat is indicated on the student’s transcript (E=Exclude, I=Include). All work will remain on the records, ensuring a true and accurate academic history. (Note: Although not used in computing the UVU overall GPA for UVU purposes, many graduate programs, such as law or dental school, include ALL grades in calculating an overall GPA for admissions criteria.)

Courses are not accepted from other institutions for the purpose of posting a repeat of a course already taken at UVU.

Board of Regents policy requires that students shall be charged at the full cost of the instruction tuition for repeating a course more than once, unless the institution determines that the repetition is a result of illness, accident or other cause beyond the student’s control or unless the course is prescribed by the student’s program of study. This affects all courses beginning January of 2003.

Changing a Grade Other than an Incomplete

Policy

Introduction

Any student who has reason to believe that a grade assigned in a specific course was not justified has the right to appeal that grade.

Procedure

Student Action—

Grades may be appealed **within one year of issuance** in the following manner:

First, the student shall approach the instructor of the course as soon as possible after receiving the final grade. They have the right to discuss the merits of their appeal in an informal and non-threatening environment.

Second, after obtaining feedback from the instructor regarding the rationale for assigning the original grade, and assuming dissatisfaction still exists at the conclusion of the first step, or if the original instructor is no longer available, the student has a right to submit a written appeal to the department chair, in a consultation setting.

Finally, if a mutual understanding cannot be reached in the **second** step, the student has the right to submit a formal written appeal through the Office of the Registrar to the University Academic Standards Committee, which exercises final authority in adjudicating the appeal.

Faculty Action—

During the first year after the issuance of a grade, an instructor for a specific class may submit a grade change form with proper documentation directly to the Records Office.

During the second through fifth years, the grade change form must be accompanied by an Academic Standards Petition filled out by the student and submitted by the course instructor or department chair directly to the registrar. If a grade change is requested and the faculty member who gave the original grade is no longer employed by UVU, the appropriate department chair may make the change if it is warranted.

After five years, a grade change may be considered only where evidence exists to prove that an error occurred in the recording of the original grade or extreme extenuating circumstances existed. In the latter case, an Academic Standards Petition with appropriate documentation may be submitted to the Office of the Registrar for possible consideration by the University Academic Standards Committee.

When the Records Office receives a signed change of grade form from an instructor, the new grade(s) are entered into the computer. An explanation of the transaction is entered into the student's record, including what the old and new grades are.

Withdrawal & Reinstatement

Withdrawal from Classes

Students may drop and withdraw from classes according to the dates and deadlines posted on the Semester Student Timetable. Classes may be dropped and not appear on the transcript through the drop deadline. After the last day to drop noted on the Semester Student Timetable, a grade of "W" will appear on the transcript for all official withdrawals and students will be responsible for tuition and fees. A "W" grade could impact a student's satisfactory academic progress with the Financial Aid and Scholarships Office.

Withdrawing from a course after the last day to withdraw deadline may only be for extenuating circumstances and not solely for academic difficulty, and requires the signature of the department chair with a department approval stamp. Such changes to a student's schedule may adversely affect current and future financial aid, scholarships and/or refunds. Students are cautioned to see a financial aid advisor before attempting to completely withdraw from school.

If a student stops attending (but does not officially withdraw) **before the last day to withdraw**, they should receive a "UW."

If a student stops attending (but does not officially withdraw) **beyond the last day to withdraw**, they may receive the grade earned up to that point, or an "E", at the instructor's discretion.

"UW's" are calculated into the grade point average (GPA) as 0.00, the same as "E's" (failing grades).

Administrative Drops and Withdrawals

Students may be dropped or withdrawn from classes by the administration if they: 1. register, but do not attend courses within the first three class periods of a semester; 2. register for courses for which they have not completed prerequisites; 3. neglect to pay tuition and fees for any given semester by the deadline published in the Student Timetable; or 4. other administrative reasons. Such changes to a student's schedule could affect financial aid, scholarships, and/or refunds.

Withdrawal from the Institution

It is the responsibility of the student who withdraws from school to complete the online Leave of Absence process. If withdrawing (Leave of Absence) after the refund period noted in the Semester Student Timetable, a grade of "W" will appear on the transcript for all official withdrawals and students will be responsible for tuition and fees. A "W" (official withdrawal) grade could impact a student's satisfactory academic progress with the Financial Aid and Scholarships Office. Complete withdrawal from college may adversely affect financial aid and/or Veterans' benefits.

Simply stopping attendance does not qualify as an official withdrawal, and a student who does so may receive a failing grade.

Reinstatement

Students who withdraw from UVU and then desire to be reinstated during the same academic semester may do so by obtaining clearance from the Registrar's Office and completing the late registration process.

Student Military Leave Procedure

Students activated into military service during an academic semester for which they are currently enrolled have the following options to choose from, in addition to other alternatives provided by existing policy and regulation. The student is responsible to notify appropriate Institution officials regarding the implementation of the selected option.

1. A request to withdraw from school will be honored with a full refund of all tuition and fees paid. Non-punitive "W's" will be recorded on the transcript and the date of action maintained on the student's record.
2. Incomplete grades may be negotiated with individual faculty and/or departments based on realistic means of completing the required objectives of the course(s). Where recommended by the department (faculty), the time limit for completing the "I" may be extended. This option may include "home study" as a means of completing the required work with faculty approval and where practical.
3. Current grades (grades earned at the point of termination) may be issued at the discretion of individual faculty. This is also a negotiated option.

In all cases, the student activated into military service is eligible for readmission.

Noncredit Continuing Education Unit (CEU)

Noncredit or Continuing Education Students are taking courses to pursue personal or professional interest, gain general knowledge, learn a new skill, upgrade existing skills, or enrich their personal understanding of a wide variety of topics. These courses do not offer college credit, but in some cases noncredit or continuing education students can earn continuing education units, certification or other evidence of class completion to meet personal or professional requirements. Noncredit course work cannot be substituted for a credit requirement or any required course on a degree pathway.

College Credit

College credit at UVU may be obtained through the following methods: 1. UVU Credit (includes Cooperative Education); 2. Transfer Credit; 3. Challenge Credit; 4. Foreign Language Challenge Credit; 5. Advanced Placement Credit; and 6. CLEP (College Level Examination Program).

1. UVU Credit

UVU credit is obtained through admittance to UVU, registering for classes, and satisfactorily completing all required course work. Courses completed through this method will receive a letter grade that will be used in calculating Grade Point Average (GPA).

Cooperative Education

Cooperative Education (Coop) offers another avenue for students to obtain UVU college credit. Students enrolled in cooperative education work as paid employees of a business, agency, or institution while enrolled at UVU in classes related to their career. Academic credit for cooperative work experience is granted according to the number of hours a student works during the semester using the following formula:

Credit Hours	Minimum Hours of Work
1	75
2	150
3	225
4	300
5	375
6	450
7	525
8	600

Coop credits are registered for at the same time and in the same manner as UVU credits.

Courses completed through Cooperative Education will receive a credit/no-credit grade which is not included in the calculation of the GPA.

The maximum number of coop credits that may be applied toward a certificate is 8; a diploma is 14; an associate or bachelor's degree is 16 credit hours. Departments define how coop credit is applied to specific programs. Additional coop credit may be taken (but not applied toward graduation) with approval of the cooperative education director and the appropriate dean.

2. Transfer Credit

It is the student's responsibility to have official transcripts of any previous college work completed elsewhere sent to the UVU Admissions Office. Transcripts accepted as official by the UVU Admissions Office are automatically sent to the Transfer Credit Office for evaluation and posting. The Transfer Credit Office may require the student to supply the catalog, bulletin, or course outlines from previous schools attended to assist in determining the transferability of specific courses. Transfer credit may or may not apply to UVU graduation requirements, regardless of the number of credits transferred.

Transfer courses with grades below "C-" will not be accepted by UVU. Transfer courses are not calculated in the GPA. Individual departments reserve the right to impose limits on the age and grade level of transfer credit. There is no limit to the number of transfer credits that may be accepted; however, UVU graduation requirements such as residence, total credits, and GPA must still be met.

Transfer courses will not be accepted from other institutions for the purpose of posting a repeat on a course already taken at UVU.

Courses in religion will be evaluated on the basis of the particular orientation of the course as determined by the UVU Religious Studies Committee. In order to be considered, these courses must be listed on an official transcript from a regionally accredited institution and must demonstrate scholarly rigor and critical engagement with the subject matter.

Introduction

General Education for Transfer Students

For transfer students from any Utah State Higher Education institution, UVU shall accept at full value all General Education course work approved by the sending institution, provided it meets the minimum C- letter grade requirement, in any area specified by the Board of Regents document R470. These areas include Composition, Quantitative Literacy, Fine Arts, Humanities, Social and Behavioral Science, Biology and Physical Science. UVU shall require transfer students to complete any additional coursework needed to satisfy the unmet portions of the UVU General Education requirements. Previously completed General Studies course work shall be applied to assure the best possible fit with UVU's General Education requirements. As each transfer student's requirements may vary, see the Graduation Office (BA 114) for specific requirements.

An AA or an AS degree earned at any USHE institution will meet the General Education requirements of UVU. The degree must include equivalents of UVU's English, Mathematics, and American Institutions requirements or the student will have to fulfill these requirements separately.

Credit for ACT/SAT Scores

On May 12, 2015, Senate Bill 196 - Math Competency Initiative passed which mandated that the State Board of Education establish a qualifying score for ACT/SAT scores in order to award college credit for a mathematics course. This course must satisfy the state system of higher education quantitative literacy requirement. This initiative will go into effect as of the 2016-2017 school year. High School students who have graduated during the 2016 school year and onward will be eligible for QL 1900 based off of an ACT score of 26 or an SAT score of 660.

U.S. Institutions outside of Utah

For transfer credit to be accepted by UVU, the institution from which credit is to be transferred must be accredited by one of the following regional associations:

- Middle States Association of Colleges and Schools (MSA)
- Northwest Commission on Colleges and Universities (NWCCU)
- North Central Association of Colleges and Schools (NCA)
- New England Association of Schools and Colleges, Inc./Commission on Institutions of Higher Education (NEASC-CIHE)
- Southern Association of Colleges and Schools/Commission on Colleges (SACS-CC)
- Western Association of Schools and Colleges/Accrediting Commission for Community and Jr. Colleges (WASC-Jr.)
- Western Association of Schools and Colleges/Accrediting Commission for Sr. Colleges and Universities (WASC-Sr.)

An equivalent AA or AS degree earned at one of these accredited institutions will meet General Education requirements at UVU. The degree must include equivalents of UVU's English, Mathematics, and American Institutions requirements or the student will have to fulfill these requirements separately.

Non-accredited institutions may be accepted on an exception basis by individual departments.

Military courses are evaluated using the ACE recommendations from the Guide to the Evaluation of Education Experiences in the Armed Services. Approved credits will be applied if they directly pertain to a student's individual undergraduate degree program.

International and Foreign Institutions

The Transfer Office, working with department academic advisors and faculty, is authorized to evaluate credit from foreign colleges, universities, and/or International Baccalaureate (IB) Diplomas after a student has been admitted to UVU. International students requesting transfer of credit from foreign institutions of higher education must submit a transcript from an approved Foreign Credentials evaluation Service. See BA 114 for a list of these accepted services.

Transfer courses from international and foreign institutions are not calculated in the GPA.

3. Challenge Credit/Experiential Credit

(Equivalency Examination and/or Documentation of Earned Competency)

No more than 25 percent of the minimum credits required toward a bachelor's degree, and associate degree, diploma, or certificate of completion, may be awarded through experiential and/or challenge credit. Challenge credit and experiential credit are not eligible for use in a certificate of proficiency. Credit for courses that appear in the current catalog may be awarded to individuals who can prove through appropriate assessment and/or documentation that they have already acquired the equivalent knowledge and/or expertise required for successful completion of that course.

To receive experiential/challenge credit for a specific course, the student must

1. Be enrolled at the University.
2. For Challenge credit, complete a comprehensive examination (theoretical and/or applied) with at least a "C-" grade; or for Experiential credit, provide documentation of practical experience to the satisfaction of the department chairperson and dean showing course objectives have been met; or with the departmental approval, complete an advanced course with a grade of "C-" or higher (if deemed necessary by the department) as a validation procedure.
3. Pay, in advance, a nonrefundable processing fee.
4. After successful completion of requirements, pay the per-credit-hour fee.

A specific course shall be challenged only once, and a student shall not receive challenge/experiential credit for a course that the student is/or has been previously enrolled in and received a grade, including a "W" grade.

Duplicate credit will not be awarded.

Grades shall be recorded only as "CR" (credit) and shall not be calculated in a student's university GPA.

4. Language Challenge Credit

Students may obtain an Experiential Language Credit Request Form in the UVU Languages and Cultures Department.

Students who have acquired proficiency in languages **offered at UVU** by means other than college courses (high school, foreign residency, etc.) may earn up to 16 credit hours. To qualify for these credits, a student shall complete a course in that language at a higher level than the credits for which they apply; and the grade in that course must be a "C-" or better.

To qualify for credit for language courses **not offered at UVU**, a student may, as an alternative, take the appropriate language test at any accredited four-year institution and provide UVU with the satisfactory (C- or better) test results. In this circumstance, the student must meet with the Languages and Cultures department chairperson to ascertain the maximum language credits that may be applied to any degree from UVU.

Proficiency tests to determine placement (not credit) in advanced courses are administered in the UVU Classroom Testing Center prior to the beginning of each semester. Students unsure of their language skills must take the test or receive permission from the course instructor before registering for advanced classes.

Students who qualify for credit under the above provisions (for example, they register for, and successfully complete, Spanish 2010 with at least a "C-" grade, thus qualifying for the credits for the previous courses—1010 and 1020) must petition for those credits (application forms are available in the Languages and Cultures Department) and pay a fee for each credit hour. No additional tuition will be charged for those credits. The credits will be listed on transcripts as "**CR**" and are not calculated in the GPA.

Additional information regarding language challenge credit and other policies are available from the Languages and Cultures Department.

5. Advanced Placement Credit

Students who complete an Advanced Placement Exam through CollegeBoard may earn up to 8 academic credits per test with a score of 3, 4, or 5, as per the policies set forth by the Utah State Board of Regents. Students having AP test scores of 3 or higher should contact the Transfer Credit Office to ensure posting of the results to their UVU transcripts.

Specific equivalencies and acceptance criteria are updated annually, upon departmental faculty review and approval.

If all **residence, credit, and grade point average** requirements have been met, there is no limit to the number of Advanced Placement credits that may be accepted; however, duplicate credit for tests and course work shall not be applied.

6. CLEP Credit (College Level Examination Program)

Students may receive college credit for CLEP exams as specified on the approved list in the Transfer Credit Office. Additionally, students intending to transfer to another institution from UVU should articulate with their intended transfer institution to gain advance information on how that institution accepts CLEP credit.

CLEP credit will be posted as a "**CR**" grade and will not be calculated in the GPA.

The amount of credit given through CLEP subject examinations is determined by the appropriate departments. No more than 25 percent of the minimum credits required toward a degree may be awarded through CLEP and/or Challenge/Experiential Credit hours.

Course Number System

0000-0999 Remedial or preparatory noncredit courses; may not be counted toward a certificate, diploma, associate, or bachelor's degree. Technical, nontransferable courses may count toward a certificate.

1000-2999 Lower division (freshman and sophomore courses); courses designed as transfer courses; count toward a certificate, diploma, associate, and/or bachelor's degree.

3000-5000 Upper division (junior and senior courses); courses designed to count toward a bachelor's degree, or any other degree as required by department.

6000 Graduate courses; regular courses in master's level programs.

Learning Enrichment courses with 1000 level numbers do not satisfy General Education requirements for the associate or bachelor's degrees. These classes may count as electives for the Associate in Arts, Associate in Science, and Bachelor of Science degrees.

The letter suffix "R" indicates that a course is repeatable for credit (example: PES 161R). Course descriptions indicate the number of "repeats" allowed.

Variable and partial credit is indicated by letter suffixes of "A," "B," "C," etc. (example: ACC 201A = 4 credits and ACC 201B = 2 credits). Changing the hours of credit for a variable-credit class after registration may be done only through the add/drop (class change) procedure. Such changes must be made prior to completion of that partial course.

"Honors" credit courses are identified on the transcript by an "H" following the course number (example: ENGL 225H).

Global/Intercultural credit courses are identified on the transcript by a "G" following the course number (example: ANTH 101G).

Undergraduate Academic Standards

- **Academic Counseling Center**
- Office: LC 402
- Telephone: 801-863-8425

Policy

Academic standing is determined by the grades a student earns at UVU. A student with the most recent semester grade point average (GPA) and cumulative GPA of 2.0 or higher on a 4.0 scale is in good academic standing. When a full- or part-time undergraduate student fails to maintain a semester or cumulative GPA of 2.0 on a 4.0 scale, the student shall be notified of progressive academic intervention actions.

This policy does not include nor preclude additional program requirements that may be mandated by specific departmental majors.

Procedures

Introduction

Academic intervention shall be applied progressively in the order described below.

Alert Status

When a student is not making adequate progress towards course completion and the instructor is unable to resolve the issue with the student, the student may be placed on alert status. A registration hold may be placed on the student's record. The student must then meet with their academic advisor for guidance before the registration hold will be removed.

Academic Warning

When the semester GPA falls below 2.0 and the cumulative GPA is 2.0 or above, the student shall be placed on academic warning regardless of alert status. A registration hold shall be placed on the student's record. The student must complete an academic success warning workshop and meet with their academic advisor before the registration hold will be removed.

Academic Probation

When the semester and cumulative GPA both fall below 2.0, the student will be placed on academic probation. A registration hold shall be placed on the student's record. The student must complete an academic success probation workshop, develop an academic success plan, and meet with their academic advisor before the registration hold will be removed.

Continued Academic Probation

If the student on academic probation fails to raise the cumulative GPA to a 2.0 or above in the subsequent semester, the student will be placed on continued academic probation. A registration hold shall be placed on the student's record and the student must prepare an academic success plan with their academic advisor as well as the academic standards counselor before the registration hold will be removed. The student may also be required to attend another academic success probation workshop and/or enroll in a college success class.

All students on continued academic probation will be required to submit an in-progress grade report to the Academic Standards Office in order to register for any subsequent semester(s). The student shall continue to receive advisement from the academic standards counselor, as well as their academic advisor, to monitor and promote academic progress.

Academic Suspension

When on continued academic probation, a student receiving a semester and cumulative GPA below 2.0 in a subsequent semester shall be placed on academic suspension. The student shall be immediately dropped from enrollment in all current semester classes and a registration hold shall be placed on the student's record. The student shall be suspended for a minimum of one full semester. During this time the student is expected to resolve all academic problems that led to the academic suspension.

To re-enroll at the University, a student must submit a Petition for Academic Suspension Review to the Academic Support Committee. This committee will make suggestions for specific customized interventions to be approved by the Academic Standards Committee. A decision shall then be rendered as to whether, and under what conditions, the student may continue to study at the University. The student must complete the requirements set forth by the Academic Standards Committee before the registration hold will be removed.

Academic Probation Returning from Academic Suspension

When the academic suspension petition is granted, the student is allowed to resume their academic studies under probation returning from suspension. This status allows the student to register for classes under the guidance of the Academic Standards Office, in conjunction with their academic advisor. As long as the student acquires a semester GPA of 2.0 or above in all subsequent semesters and abides by the conditions outlined by the Academic Standards Committee, the student may continue to enroll in classes. The student will remain on academic probation returning from academic suspension until the cumulative GPA is at or above 2.0.

Academic Dismissal

When failing to comply with the conditions set forth by the Academic Standards Committee while on academic probation returning from academic suspension, the student shall be dismissed from the University and immediately dropped from enrollment in all classes. A registration hold shall be placed on the student's record.

The student may not re-enroll at the University or submit a Petition for Academic Dismissal Review for a minimum of one full calendar year from the date of academic dismissal. During this calendar year, the student may also be required to attend another institution and complete 18 credits with at least a 2.5 GPA. Upon review by both the Academic Support Committee and the Academic Standards Committee, a decision will be rendered as to whether or not, and under what conditions, the student may re-enroll at the University.

Any student who returns to the University after being dismissed will be placed on academic probation returning from academic dismissal and will be required to follow the academic plan outlined by the Academic Standards Committee.

Academic Probation Returning from Academic Dismissal

When the Petition for Academic Dismissal Review is granted by the Academic Standards Committee, the student is allowed to continue their academic studies on academic probation returning from academic dismissal. The student is allowed to register for classes under the guidance of the Academic Standards Office, in conjunction with their academic advisor. As long as the student acquires a semester GPA of 2.0 or above in all subsequent semesters and abides by the conditions outlined by the Academic Standards Committee, the student may continue to enroll in classes. The student will remain on probation returning from dismissal until the cumulative GPA is at or above 2.0.

When a student is unsuccessful at this level and does not have the ability to benefit from continuing with their education at the University, academic counseling will be provided by the Academic Standards Office to explore alternative pathways to success.

Appeals

When the student's Petition for Academic Suspension Review or Petition for Academic Dismissal Review is denied by the Academic Standards Committee, the student may present an appeal to a hearing panel that consists of the Academic Standards Committee and a representative appointed by the President of the Utah Valley University Student Association (UVUSA). After review of the petition, the hearing panel will determine if the student's appeal is granted or denied. If the appeal is granted, the hearing panel shall determine the conditions for re-enrollment at the University.

If the student is unsatisfied with the hearing panel's decision, the student has the right to appeal in writing to the Vice President of Academic Affairs.

Academic Renewal

For students who are challenged with a low GPA or for those who have experienced a period of low grades that does not reflect their academic potential, UVU offers academic renewal. A student is allowed to petition the Registrar for academic renewal only one time during his or her enrollment at the University. This process shall remove a limited amount of previous academic work from the student's GPA and from credit toward graduation. To be eligible a student shall meet the following conditions at the time the petition is filed:

1. The student must be currently enrolled at UVU.
2. A minimum of two years has elapsed since the most recent course work to be eliminated was completed.
3. The student has completed at least 30 semester hours of UVU course work with a minimum cumulative GPA of 2.50. These 30 hours shall have been completed after the course work the student is requesting to eliminate.
4. The student's cumulative GPA is below the level necessary for graduation in his or her current program of study. In most instances, this is a 2.0 cumulative GPA.
5. The requested course work has not been used toward an existing degree.

The student may request a maximum of two specific semesters/terms of academic course work be eliminated from his or her earned credits and cumulative GPA. Individual courses shall not be accepted.

If the petition qualifies under this policy, the student's permanent academic record shall be annotated to indicate that no work taken during the disregarded semester(s) and/or term(s), even if satisfactory, shall apply toward earned credits, GPA, academic standing, and/or graduation requirements. All work shall remain on the records, ensuring a true and accurate academic history. The words "Academic Renewal" and the affected semester(s)/term(s) shall be annotated on the student's transcript.

Academic renewal shall not be requested to earn or change academic honors status on a student's transcript.

No exceptions shall be made to this policy. Students shall be aware that this policy may not be accepted at transfer institutions, and all credit, including those with academic renewal, may still be calculated by the transfer institution.

Academic Distinction

The Dean's list recognizes those who have demonstrated outstanding academic performance during a term or semester. To be eligible:

1. The student must complete 12 semester hours or more in any semester and a commensurate number of hours in any term.
2. The student must earn a semester GPA of 3.6 or above.

Accreditation

Utah Valley University is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

The Northwest Commission on Colleges and Universities (NWCCU) is an independent, non-profit membership organization recognized by the U.S. Department of Education as the regional authority on educational quality and institutional effectiveness of higher education institutions in the seven-state Northwest region of Alaska, Idaho, Montana, Nevada, Oregon, Utah, and Washington.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

- **Northwest Commission on Colleges and Universities**
- 8060 165th Avenue N.E., Suite 100
- Redmond, WA 98052
- 425-558-4224
- www.nwccu.org

The Northwest Commission on Colleges and Universities (NWCCU) is an independent, non-profit membership organization recognized by the U.S. Department of Education as the regional authority on educational quality and institutional effectiveness of higher education institutions in the seven-state Northwest region of Alaska, Idaho, Montana, Nevada, Oregon, Utah, and Washington.

In addition, some programs or majors have other specialized accreditation.

Web: www.uvu.edu/accreditation/specialized.html

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Gainful Employment

Web: <http://www.uvu.edu/hr/jobs/>

Gainful Employment information is provided in compliance with the U.S. Department of Education's disclosure requirements for programs eligible for Title IV financial aid that prepare students for gainful employment in a recognized occupation as required in 34 CFR 668.6(b). All programs list the following information: CIP Code, Level of Program, Program Length, Tuition and required fees, Estimated costs for books and supplies, Debt at program completion, Program completion in Normal Time, Job Placement, and Related Occupations. Gainful Employment Program Disclosure is listed on all marketing materials for potential students.

Admissions

- **Office of Admissions**
- Office: BA 115
- Telephone: 801-863-8706

Admissions Policy

Undergraduate Admissions

Utah Valley University maintains an open admissions practice, admitting all applicants whose qualifications indicate they may benefit from the instructional programs offered.

The University does, however, have enrollment standards. In order to help students enroll in courses that match their academic preparation and ability, admission to the University requires that every student adhere to the established admission deadlines and provide all application materials as stipulated by the university including: English placement scores, an official high school and/or college transcripts, and a \$35 application fee. Returning/Transfer students are required to submit transcripts from all colleges/universities they have attended. After being admitted, most students are required to attend orientation and meet with an advisor to be guided through a personalized enrollment process.

State Authorization Requirements for Online courses and programs

Utah Valley University delivers online education programs and courses throughout the United States and abroad. Recent amendments to the Higher Education Act of 1965 include changes to a regulation on State authorization that impacts online and distance education providers. The regulation changes are designed to address the growing population of students residing at a distance and pursuing university-level education online by requiring institutions to meet any State requirements to be legally offering online education in that State.

Utah is a member of the State Authorization Reciprocity Agreement (SARA) and Utah Valley University is an approved SARA institution which means we adhere to established standards for offering post-secondary online programs in all member states.

UVU is authorized to offer online education in all states and a few territories with some restrictions on internships and practicums. For more information and access to an interactive map visit <http://www.uvu.edu/otl/state-authorization.html>. To review the authorization information, click on the state you intend to reside in while pursuing your degree or program through UVU.[KC1]

Graduate Admissions

In order to be admitted to the University as graduate students, applicants must meet the following minimum requirements:

1. A bachelor's degree from a regionally accredited college/university, a nationally accredited program, or an international college or university recognized by a Ministry of Education. International Admissions officers shall determine if applicants with international degrees meet the graduate program's requirement of a recognized bachelor's degree or equivalent.
2. A 3.0 cumulative undergraduate GPA or a 3.0 GPA calculated on the last 60 semester hours (90 quarter hours) of undergraduate work.
3. Any additional or more stringent admissions criteria established by specific graduate programs in addition to the minimum required by the University. (Policy 510, Section 4.5).

Admissions Procedure

UVU is committed to equal opportunity in admissions and access to educational programs and activities without regard to race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age, disability status, veteran status, pregnancy, childbirth or pregnancy-related conditions, citizenship, genetic information, or other bases protected by applicable law.

Age Exception

New freshmen under the age of 17 and who have not graduated high school seeking admission must apply for exception through the Admissions Office. The student must submit all required documents for admission and demonstrate through assessment testing the ability to succeed. After meeting with the student and at least one parent or guardian in person, the Director or Associate Director of Admissions will make the final determination for admittance.

Students are required to be in the non-degree seeking status High School Concurrent Enrollment (HSCE) until they graduate from high school, receive a GED or are beyond compulsory high school age. Students are required to take ACT/ACT-R or SAT testing and at a minimum must qualify to enter English and Math at a college level (1010 or above.)

Students that do not meet testing minimums, are under the age of 15, or are otherwise found to not be college ready will not be granted an exception to policy.

Enrollment

Admission to the University does not constitute admission into an individual major or program of study. Some programs of study may require an additional program admission process. In programs or courses with limited openings (or seats), enrollment is based on a "first-come, first-served" procedure, assuming prerequisites have been satisfied.

Specific Program Screening

Some programs or majors of the institution are accredited by professional or technical organizations which may recommend certain minimum standards for entrance into the program. Other programs may require prerequisite skills or knowledge that are specific to entry-level courses required for that major.

Undergraduate Admission Steps

To be officially admitted to the University, an applicant must submit the following to the Office of Admissions:

1. Complete the online Application for Admission available at: www.uvu.edu/admissions.
2. Application Fee: Nonrefundable, \$35 application fee accompanying first undergraduate, \$15 for each returning/readmitting undergraduate application for admission, and, \$100 for international application for admission. Application deadline for undergraduate admissions: fall semester, Aug. 1st; spring semester, Dec. 1st.
3. Official Transcripts: All High School/College/University transcripts must arrive at UVU in an unopened envelope from the sending institution and must be printed within the last six months to be considered official. High school transcripts can be considered official if they are emailed from the high school counselor to admissions@uvu.edu or faxed, with a cover sheet from the high school, to 801.863.8913. Items must be received or postmarked before the admissions deadline.
4. Official ACT or SAT scores: ACT or SAT test scores are not required for admission to the university but may be a requirement for scholarship consideration. The ACT-R can be taken at Testing Services in the Wolverine Services Center. Expired test scores (two years for math and five years for English) will not prohibit admission to UVU. However, current placement scores may be required prior to registration of math or English courses

Acceptance and resident status will be determined by the Office of Admissions. A declaration of major is accomplished through the Application for Admission. Students desiring to change their major after acceptance to the University are required to do so with the academic advisor for their newly desired major.

Graduate Admission Steps

1. Complete the online Application for Admission available at: www.uvu.edu/admissions.
2. Application Fee: Nonrefundable \$45 fee for each graduate admission application, \$145 fee for each international graduate admission application.
3. Admission Documentation: Submit documentation necessary for admission consideration by deadline published by program being applied to.
4. After receipt and review of necessary documentation each program will decide whether or not to offer admission to the program.

Acceptance of undergraduate students and resident status of all students will be determined by the Office of Admissions. A declaration of major is accomplished through the Application for Admission. Students desiring to change their major after acceptance to the University are required to do so with the academic advisor for their newly desired major.

Resident Classification

Resident tuition applies to residents of the State of Utah.

Utah Valley University will determine student residency in accordance with Utah Law and the State Board of Regents Policy R512.

Nonresident students should note that residency does not change automatically. Students are required to submit a Residency Application with appropriate documentation to the Office of Admissions for review and approval before residency status can be changed.

Applicants for residency classification should allow three to four weeks for a review and determination of his/her residency. All communication regarding residency will be through myUVU. Students should check their myUVU account regularly, for updated information or documentation requests.

Applications for residency for any given semester must be received before the deadline posted on the Residency Application. In accordance with the residency policy, all changes in residency classification must be completed before the 3rd week of each semester. Applications/Supporting documentation received after advertised deadlines will not be considered until the next semester. Residency changes are not retroactive. Check your status and deadlines before registering for classes.

Returning Students

Undergraduate students returning to UVU after a break of seven semesters or more are required to reapply for admission. A \$15 readmission fee will be assessed to returning students. If the student has attended a College/University since their last attendance at UVU an official transcript from each institution attended is required before acceptance back into UVU.

Veterans

Veterans considering enrollment are encouraged to contact the UVU Veterans Services Office (WB 100) during the admissions process to receive assistance in planning programs of study and applying for educational benefits.

Senior Citizens

Utah residents, age 62 and over, may enroll on an audit basis in any University class offered (as space is available) by completing an application for admission but are not charged an application fee. The Office of Admissions will issue an audit form to be signed by the instructor. A \$20 registration fee, which covers all costs except books and special lab and course fees, is required each semester. This policy does not apply to specialized workshops.

Senior citizens desiring credit for courses taken must apply and register according to regular policies and procedures.

Non-Degree Seeking Students

Students that desire to attend courses at UVU for personal or professional enrichment only or to gain credit to transfer back to their home institution and are not seeking a formal degree or award from UVU may enroll as non-degree seeking students for three consecutive semesters. After this time period, non-degree seeking students must reapply following

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regular admission procedures if they wish to continue enrolling in courses at UVU. Non-degree seeking students are not eligible to receive financial aid or apply for graduation from UVU.

International Students: F-1 Immigration Status

The University is authorized under federal law to enroll non-immigrant alien (international) students. An international student is defined as an individual who is legally domiciled in a country other than the United States of America at the time of application for admission to UVU. International students must be 18 years or older for admittance.

Change of Status

Due to regulations involved with the change of Visa status for those holding a B1 or B2 Tourist Visa, Utah Valley University does not facilitate the change of status for this Visa type.

I-20 Certificate of Eligibility

This document issued by the designated international student admissions officer to international students with non-immigrant status, is to be used to apply for an F-1 Visa to the United States.

Only persons who do not intend to remain permanently in the United States and who have adequate financial resources are eligible for such status.

Educational Costs

An estimate of an academic school year costs, as determined by UVU, is stated on the I-20 form prior to issuance to the student. The American Consul uses this information to determine the adequacy of the applicant's financial resources.

Affidavit of Support

UVU requires international applicants (with their sponsors) to submit an "Affidavit of Support" for an International Student at UVU. The affidavit states that a sponsor is legally bound to financially support the applicant. Upon satisfactory completion of other admission requirements, the affidavit is returned to the prospective student with the I-20, which may then be presented to an American Consul or Embassy to gain an F-1 Visa.

Transcript of Credits

This is an official copy of the permanent academic record of the student's high school (12th grade equivalency) and/or college grades. It is used by UVU to determine admission qualifications.

TOEFL or IELTS

The TOEFL (Test of English as a Foreign Language) is a confidential examination given through procedures designed to protect its security before, during, and after its administration. Scores over one-year old are not acceptable. Information for TOEFL may be obtained by contacting www.ets.org/TOEFL. We will also accept the IELTS test for English proficiency. Information for IELTS can be obtained at www.ielts.org.

A minimum score of 520 written test, 184 computer based, or 66 for internet based test for TOEFL an IELTS score of 6.0 is required for admittance to an undergraduate level program at UVU. No scores are needed for admittance to the Intensive English program. Certain majors may require higher scores before acceptance into major.

Graduate level programs require a minimum TOEFL score of 550 paper based test or 80 internet based test or 6.5 IELTS score. Individual programs may require more than University minimums as an admission requirement.

Note: Assessment tests are administered to all incoming students. The results of that exam determine first semester classes.

Financial Aid & Scholarships

International students are not eligible for scholarships or financial aid from the United States Government.

Academic Load

An international student is required to carry a full time course load (minimum of 12 hours of credit for undergraduate students and minimum of 9 credits for graduate students) that applies toward a major each academic semester of fall and spring. Summer is optional unless it is the student's first semester at UVU or the student has attended school for more than one year and uses a semester other than summer as a vacation. The 12 credit-hour requirement may not include repeated classes or audit classes.

Hospitalization & Health Insurance

UVU recommends that international students acquire appropriate insurance while in school. Information can be obtained at the UVU Student Health Services Office.

Tuberculin Skin Test

Each international student must independently acquire a Tuberculin Skin Test after entering the United States. This may be obtained at the Student Health Services office on campus or the Utah County Health Department. Written results must be submitted to Student Health Services prior to registering for classes. An international student transferring from another institution within the United States may present written results from a previous skin test.

Essential Learning Outcomes (ELO)

The Essential Learning Outcomes (ELOs) are a comprehensive set of learning goals that are fostered and developed across a student's entire educational experience. They reflect the knowledge, skills, and competencies needed to meet the challenges of an ever-changing and complex world. The ELOs prepare students for future employment, life, and citizenship. With the achievement of these outcomes, UVU graduates will possess breadth and depth of knowledge, highly developed intellectual and practical skills, commitment to personal and social responsibility, awareness of the interdependence of communities, and the ability to synthesize and apply their learning to solve complex real-world problems.

Integrative and Applied Learning:

A student will engage in discipline-appropriate experiences with the academic and broader community through integrated and applied learning.

Intellectual and Practical Skills Foundation:

A student will acquire a foundation of intellectual and practical skills including communication, quantitative reasoning, qualitative reasoning (critical, analytical, and creative thinking), and technical and information literacies.

People of Integrity:

A student will become personally and socially responsible by acquiring, developing and demonstrating skills in ethical reasoning and understanding.

Professional Competency:

A student will demonstrate professional competence by meeting the established standards of the discipline, working as a valued member of a team, effectively formulating and solving problems, and actively seeking and honing lifelong learning skills.

Stewards of Place:

A student will demonstrate stewardship of local, national, and global communities by cultivating awareness of: interdependence among those communities; issues within those communities; and organizations and skills that address such issues.

Knowledge Foundation:

A student will demonstrate knowledge of human cultures and the physical and natural world in the following areas of essential study: arts, history, humanities, languages, science and mathematics, social sciences. Knowledge Foundation refers to GE Distribution courses and other courses and experiences within the major.

Financial Aid & Scholarships

Scholarship Application Procedure

To apply for scholarships you must:

1. Be admitted to UVU.
2. Submit the Scholarship Application. Go to www.uvu.edu/financialaid/scholarships and click Apply Now.
3. Submit your high school and college transcript(s) to Utah Valley University.
4. Submit ACT or SAT scores (if Applicable).

Financial Aid Application Procedure

The content contained in this section is subject to change based on federal and state regulations. Financial aid is designed to bridge the gap between the costs of attending UVU and what students and their families are expected to pay. To be considered for financial aid:

1. Be admitted to UVU.
2. Complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov. UVU's school code is 004027.
3. Complete all federal student aid requirements listed in myUVU. Log in to myUVU, go to Students, Paying For My Education, under the Financial Aid header click on UVU Requirements, and select the appropriate Aid Year.
4. Check your financial aid requirements often as additional requirements may be added at any time, even after your aid has disbursed. You must meet all general and program eligibility requirements in order to receive federal student aid. For more information on eligibility requirements please visit the Financial Aid and Scholarships website at www.uvu.edu/financialaid.
5. Accept your federal student aid award through your myUVU account. Only grants are automatically accepted. You must accept all other financial aid awards. Log in to myUVU, go to Students, Paying For My Education, under the Financial Aid header click on Awards, Select the appropriate Aid Year, Terms and Conditions, Accept Award Offer.
6. All students receiving a Direct Loan for the first time must complete entrance loan counseling at www.studentloans.gov.
7. E-sign your master promissory note (MPN) at www.studentloans.gov after you accept your loan in myUVU. You must be enrolled in at least six eligible credit hours (waitlist hours, audited courses, and some repeated courses, are not enrollment hours) and have met all other financial aid requirements to receive a loan.
8. Receiving excess federal student aid: Federal student aid will be applied toward tuition and fees. Once tuition and fees have been paid, any excess aid will be sent to the student. There are two ways to receive a refund: by paper check mailed through the U.S. Postal Service to the local address listed in the student's myUVU account, or by

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direct deposit. A student must enroll in eRefunds in order to have their refund direct deposited to the bank account of their choice. If eRefund is not setup through myUVU, then the reimbursement will be mailed to them. Not all students will receive a refund of their federal student aid.

9. The Financial Aid and Scholarships Office communicates to students through myUVU and myUVU email. Financial aid rules change often and could impact your requirements and awards that you may have already received. If requested.

Deadlines

To ensure your federal student aid is available to you on the first day of each semester, you must have completed all requirements by the following deadlines.

- Fall Semester: August 1st
- Spring Semester: December 1st
- Summer Semester: April 1st

If you fail to meet these dates, you may still be eligible to receive federal student aid for the semester, it will just not be available to you by the first day of class. However, you must have a valid FAFSA and must meet all eligibility requirements by the last day of the semester for which you are enrolled and requesting aid.

Awards

When you complete the FAFSA, you are applying for Federal Pell Grant, Student Loans, Supplemental Educational Opportunity Grant, and Federal Work Study.

Financial Aid Policies and Consumer Information

Financial Aid policies can be found at www.uvu.edu/financialaid.

Consumer information can be found at www.uvu.edu/compliance/healthstudentconsumer.html

For additional information on financial assistance or help completing forms, please contact:

- **Financial Aid & Scholarships Office**
- **Utah Valley University**
- BA 105, Browning Administration
- 800 W. University Parkway
- Orem, Utah 84058-5999
- Telephone: 801-863-8442
- Fax: 801-863-8448
-

Financial Aid Webpage: www.uvu.edu/financialaid

Scholarship webpage: www.uvu.edu/financialaid/scholarships

General Education

General Education Information

Whereas a major provides students with specialized knowledge, General Education ensures that students have the breadth of knowledge that characterizes well-rounded and well-informed citizens. General Education provides the skills of analysis, problem-solving, creative thinking, and critical thinking that prepare students for an unknown and ever-changing future.

Completion of the UVU General Education requirements will fulfill the General Education requirements at all colleges and universities within the Utah System of Higher Education. However, certain majors, both at this institution and other Utah institutions, may require **specific** General Education courses. While UVU has not articulated these courses with higher education institutions outside the State of Utah, they will generally articulate to other regionally accredited colleges and universities in the United States. It is the responsibility of students to complete the appropriate General Education courses required by their departments regardless of the generalized list printed in this catalog.

Note: Students taking General Education courses without having declared a specific major are advised in the Academic Counseling Center, LC 402, telephone 801-863-8425. Students who have declared a specific major that is taught at UVU will be directed to the appropriate academic advisor upon completion of new student orientation and assessment activities.

Department Articulation Agreements

In addition to General Education courses, many departments have articulated specific courses that transfer to help fulfill baccalaureate degree requirements. Information concerning these courses may be obtained from UVU department advisors or the Admissions-Transfer Services Office, BA 114.

General Education Code System

General Education course designator codes (Attributes) aid students and transfer institutions to identify how General Education courses meet graduation requirements.

The following list identifies General Education core and distribution courses as they apply to the Associate in Arts/Science Degrees and Bachelor of Arts/Science Degrees, and can be used to search the registration menu:

AS - American Institutions

BB - Biology

CC - English Composition

FF - Fine Arts

HH - Humanities

LH - Foreign Language

PP - Physical Science

SS - Social Science

QL – Quantitative Literacy

XF - Must be taken with another course to equal FF (see department)

General Education Requirements

Interstate Passport

The Interstate Passport enables successful transfer of a block of lower-level general education learning to other institutions participating in the Interstate Passport Network. Students who complete their Passport at Utah Valley University will not be required to repeat or take additional course work to meet lower-division general education requirements in the Passport's nine areas when they transfer to any other Passport institution. Utah Valley University will begin transcribing the Interstate Passport following the Fall 2016 semester. Students with an interest in achieving the Passport should see our website at <http://www.uvu.edu/transfer/passport.html> and contact their Advisor.

Associate in Arts/Science Degrees and Bachelor of Arts/Science Degrees

These requirements satisfy the General Education requirements for both the Associate in Arts and the Associate in Science Degrees, as well as the Bachelor of Arts and the Bachelor of Science Degrees at UVU, taking into account adjustments that may be required by academic departments to fulfill their specific needs. Honors courses with the same prefix and number also satisfy distribution requirements. Total core and distribution is 35 credits.

Core Requirements

These courses provide basic skills in logic, math, written and oral communications, health, and fitness.

Complete the following for 6 credits:
ENGL 1010/101H Introduction to Writing
and
ENGL 2010/201H Intermediate Writing—Humanities/Social Science
or
ENGL 2020 Intermediate Writing—Science and Technology
Complete one of the following for at least 3 credits:
Certain majors may require a specific MAT, MATH, or STAT course. It is the responsibility of the student to complete the appropriate math class for their major.
MAT 1030 Quantitative Reasoning/MAT 1035 Quantitative Reasoning with Integrated Algebra
or
STAT 1040 Introduction to Statistics/STAT 1045 Introduction to Statistics with Algebra
or
MATH 1050 College Algebra/MATH 1055 College Algebra with Preliminaries
or
MATH 1090 College Algebra for Business
or
One MATH course that requires MATH 1050 as a prerequisite (excluding MATH 1060)
or
QL 1900 – awarded based on achievement of the following test scores:
AP Calculus AB: 3 or higher

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AP Calculus BC: 3 or higher

AP Statistics: 3 or higher

IB HL Math: 5 or higher

CLEP Pre-Calculus: 50 or higher

CLEP Calculus: 50 or higher

ACT Mathematics: 26 or higher

SAT Mathematics: 660 or higher

QL1900 satisfies the General Education math requirement; however, certain majors may require MAT 1030/1035, STAT 1040/1045, or MATH 1050 to be taken as a prerequisite for a higher level Math course.

Complete the following for 5 credits:

PHIL 2050/205G/205H Ethics and Values

and

HLTH 1100 Personal Health and Wellness

or

PES 1097 Fitness for Life

American Institutions

Complete one of the following for 3 credits:

POLS 1000 American Heritage

HIST 2700 and 2710 US History to/since 1877

HIST 1700/170H American Civilization

HIST 1740 US Economic History

POLS 1100 American National Government

DISTRIBUTION Requirements

(18 CREDITS)

From Science, Humanities, Fine Arts, and Social/Behavioral Science

A. SCIENCE

All Majors must complete **One course of Biology (BIOL 1010 or BIOL 1610 highly recommended), One course of Physical Science and One additional course from either of those two areas** for a minimum total of 9 credits. One Lab Course is recommended.

Biology

BIOL 1010/101H	General Biology	3.0
BIOL 1070	Genetics	3.0
BIOL 1200	Prehistoric Life	3.0
BIOL 1500	Biological Anthropology	3.0
BIOL 1610	College Biology I	4.0
BIOL 1620	College Biology II	3.0
BIOL 204R	Natural History Excursion*	3.0
BIOL 2500	Environmental Biology	3.0
BOT 2050	Field Botany	3.0
BOT 2100	Flora of Utah	3.0
BOT 2400	Plant Kingdom	4.0
BTEC 1010	Fundamentals of Biotechnology I Career Survey	3.0

HLTH 3400	Human Diseases	3.0
MICR 2060	Microbiology for Health Professions*	4.0
NUTR 2020	Nutrition Through Life Cycle	3.0
ZOOL 1090	Intro to Human Anatomy/Physiology	3.0
ZOOL 2320/232H	Human Anatomy*	3.0

*May be used as the third science only

Physical Science

ASTR 1040/104H	Elementary Astronomy	3.0
ASTR 1050	Investigations of the Solar System	3.0
ASTR 1060	Investigations of Stars and Galaxies	3.0
ASTR 1070/107H	Cultural Astronomy in Our Lives	3.0
ASTR 1080	Life in the Universe	3.0
CHEM 1010	Introduction to Chemistry	3.0
CHEM 1110	Elem Chem for Health Sciences	4.0
CHEM 1120	Elem Organics Bio-Chemistry	4.0
CHEM 1210	Principles of Chemistry I	4.0
CHEM 1220	Principles of Chemistry II	4.0
ENVT 1110	Intro to Environmental Mgmt	3.0
GEO 1010/101H	Introduction to Geology	3.0
GEO 1020	Prehistoric Life	3.0
GEO 1080	Introduction to Oceanography	3.0
GEO 1220	Historical Geology	3.0
GEO 204R	Natural History Excursion*	3.0
GEOG 1000	Intro to Physical Geography	3.0
METO 1010	Introduction to Meteorology	3.0
METO 1060	Climate of the Earth	3.0
PHSC 1000	Survey of Physical Science	3.0
PHYS 1010	Elementary Physics	3.0
PHYS 1700	Descriptive Acoustics	3.0
PHYS 1750	The Acoustics of Music	3.0
PHYS 1800	Energy You and Environment	3.0
PHYS 1850	Aviation Physics	3.0
PHYS 2010	College Physics I	4.0
PHYS 2020	College Physics II	4.0
PHYS 2210	Physics for Scientists/Engineers I	4.0
PHYS 2220	Physics for Scientists/Engineers II	4.0
TECH 1010	Understanding Technology*	3.0

*May be used as the third science only

B. HUMANITIES — One course minimum

AMST 2000	Introduction to American Studies	3.0
ASL 202G	Intermediate American Sign Language II	4.0
CHIN 202G	Intermediate Chinese II	4.0

Introduction

CINE 2150	Critical Intro Cinema Studies	3.0
CINE 217G	Race Class and Gender in US Cinema	3.0
COMM 1020	Public Speaking	3.0
COMM 1050	Introduction to Speech Communication	3.0
COMM 1500	Introduction to Mass Communications	3.0
COMM 217G	Race Class and Gender in US Cinema	3.0
ENGL 2030	Writing for Social Change	3.0
ENGL 2130	Science Fiction	3.0
ENGL 2150	Critical Intro Cinema Studies	3.0
ENGL 217G	Race Class and Gender in US Cinemas	3.0
ENGL 2200	Introduction to Literature	3.0
ENGL 2210	Introduction to Folklore	3.0
ENGL 2230/223H	Myths/Legends in Literature	3.0
ENGL 2250/225H	Creative Process/Image Writing	3.0
ENGL 2300/230H	Shakespeare	3.0
ENGL 2310	Technical Communication	3.0
ENGL 2510	American Literature before 1865	3.0
ENGL 2520	American Literature after 1865	3.0
ENGL 2600	Critical Introduction to Literature	3.0
ENGL 2610	British Literature before 1800	3.0
ENGL 2620	British Literature after 1800	3.0
ENGL 376G	World Literature	3.0
FREN 202G	Intermediate French II	4.0
GER 202G	Intermediate German II	4.0
GRK 2020	Intermediate Greek II	4.0
HUM 1010/101G/101H	Humanities Through the Arts	3.0
HUM 2010 /201G/201H	World History Through Arts I	3.0
HUM 2020/202G/201H	World History Through Arts II	3.0
HUM 203G	Art Form Focus I	3.0
HUM 204G	Art Form Focus II	3.0
HUM 2100/210H	Adventures Ideas Through 1500	3.0
HUM 2200/220H	Adventures Ideas After 1500	3.0
JPNS 202G	Intermediate Japanese II	4.0
LATN 2020	Intermediate Latin II	4.0
PHIL 1000/100H	Introduction to Philosophy	3.0
PHIL 1250	Intro to Logic and Critical Thinking	3.0
PHIL 1610	Intro To Western Religions	3.0
PHIL 1620	Intro To Eastern Religions	3.0
PHIL 2110	Ancient Greek Philosophy	3.0
PHIL 2130	Medieval Philosophy	3.0
PHIL 2150	Early Modern Philosophy	3.0
PORT 202G	Intermediate Portuguese II	4.0
RUS 202G	Intermediate Russian II	4.0
SPAN 202G	Intermediate Spanish II	4.0

C. FINE ARTS — One course minimum

ART 1010	Introduction to Visual Arts	3.0
ART 1020	Basic Drawing Non Majors	3.0
ART 1050	Photography I	3.0
ART 1340	Sculpture I	3.0
ART 1350	Ceramics I	3.0
ART 1650	Watermedia I	3.0
ART 3400	Fundamentals of Art Education	3.0
ARTH 2710 271H	History of Art to the Renaissance	3.0
ARTH 2720/272H	History of Art from the Renaissance	3.0
DANC 1010	Dance as an Art Form	3.0
DANC 2110	Orientation to Dance	3.0
EGDT 1720	Architectural Rendering	3.0
MUSC 1010/101H	Introduction to Music	3.0
MUSC 1030	American Popular Music	3.0
MUSC 1100	Fundamentals of Music	3.0
THEA 1013	Introduction to Theater	3.0
THEA 1023	Introduction to Film	3.0
THEA 1033	Acting I	3.0
THEA 2200	Theatre and Drama Elem School	3.0
THEA 2311	Film History I	3.0

D. SOCIAL/BEHAVIORAL SCIENCE — One course minimum

ANTH 101G	Social/Cult Anthropology	3.0
ANTH 1020	Biological Anthropology	3.0
ANTH 103G	World Prehistory	3.0
ANTH 180G	Introduction to American Indian Studies	3.0
BESC 107G	Multicultural Societies	3.0
CJ 1010	Introduction to Criminal Justice	3.0
COMM 2110	Interpersonal Communications	3.0
ECON 1010	Economics As Social Science	3.0
ECON 2010	Microeconomics	3.0
ECON 2020	Macroeconomics	3.0
ENTR 2500	Creativity and Entrepreneurial Thinking	3.0
ES 1150	Community Emergency Preparedness	3.0
FAMS 1150	Marriage and Relationship Skills	3.0
FIN 1060	Personal Finance	3.0
GEOG 130G	Survey of World Geography	3.0
GEOG 1400	Introduction to Human Geography	3.0
GEOG 2100	Geography of U.S	3.0
HIST 1500	World History to 1500	3.0
HIST 151G	World History from 1500 to the Present	3.0
HIST 1700/170H	American Civilization**	3.0
HIST 1740	US Economic History**	3.0
HIST 2700	US History to 1877**	3.0
HIST 2710	US History since 1877**	3.0
HLTH 2600	Drugs, Behavior and Society	3.0

Introduction

HLTH 2800	Human Sexuality	3.0
HLTH 3000	Health Concepts of Death/Dying	3.0
MGMT 1010	Introduction to Business	3.0
MGMT 2030	Women in Business	3.0
MGMT 2110	Interpersonal Communication	3.0
POLS 1000	American Heritage**	3.0
POLS 1010	Introduction to Political Science	3.0
POLS 1100	American National Government**	3.0
POLS 2100	Intro to International Relations	3.0
POLS 2200	Intro to Comparative Politics	3.0
PRLG 1000	Intro to American Law	3.0
PSY 1010/101H	General Psychology	3.0
PSY 1100	Human Development: Life Span	3.0
PSY 2800	Human Sexuality	3.0
SOC 1010/101H	Introduction to Sociology	3.0
SOC 1200	Sociology of the Family	3.0
TECH 200G	Technology and Human Life	3.0

**If not used as Core Requirement

Additional Guidelines for Completion of the Associate in Arts/Science Degrees

The Associate in Arts and the Associate in Science Degrees are designed to complete General Education requirements and could complete lower division pre-majors for baccalaureate degrees at UVU or other colleges or universities.

The General Education courses shown above constitute the majority of the credits required for these degrees. In addition to the General Education requirements, these degrees require 25 additional credit hours.

Associate in Arts Degrees require 8 hours of these 25 hours to be from the same recognized foreign language.

See your specific academic department for further information on appropriate course work to complete a pre-major or the remaining 25 hours. The Academic Counseling Center (LC 402) has some specific outlines available to transfer to other institutions.

Associate in Applied Science Degrees

This is a general outline. Refer to the department or Graduation Office for specific requirements. A total of 16 credit hours is required. Students must have a minimum of three credits in each area, except "F" (Physical Ed/Health/Safety/Environment).

A. ENGLISH complete for 3 credits:

ENGL 1010/101H Introduction to Writing
or
MKTG 2200 Business Communication

B. MATHEMATICS complete for 3 credits:

MAT 1000 Integrated Beginning and Intermediate Algebra
or
MAT 1010 Intermediate Algebra
or
Any Higher Mathematics course
or
Any approved Departmental Mathematics Course

C. HUMANITIES/FINE ARTS/FOREIGN LANGUAGE complete for 3 credits:

PHIL 2050/205G/205H Ethics and Values (Highly recommended)
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or
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course

D. SOCIAL AND BEHAVIORAL SCIENCE complete for 3 credits:

MGMT 3000 Organizational Behavior
or
Any approved Behavioral Science, Social or Political Science Distribution Course

E. BIOLOGY OR PHYSICAL SCIENCE complete for 3 credits:

Any approved Biology or Physical Science Distribution Course

F. PHYSICAL ED/HEALTH/SAFETY OR ENVIRONMENT complete for 1 credit

Any approved Physical Education, Health, Safety or Environment Course

Transfer Information

For students transferring to four-year Institutions, Colleges, and Universities in the Utah System of Higher Education.

UVU courses numbered 1000 or above will transfer within the Utah System of Higher Education. However, the application of these courses toward graduation is determined by academic departments of receiving institutions.

For students transferring to colleges and universities in the Utah System of Higher Education **before** earning an Associate in Arts or an Associate in Science Degree, or a Bachelor of Arts or a Bachelor of Science Degree, a certified letter verifying completion of the UVU General Education requirements may be requested from the Graduation Office. This letter will cause the gaining institution (run by the State of Utah) to accept the completion of UVU General Education requirements as fulfilling all of the General Education/Liberal Education requirements of the gaining institution.

Note: Completion of an Associate in Arts/Science Degree waives only General Education requirements. It does not waive the necessary hours to graduate. A student transferring to another institution should check with that institution to see how their credits have been accepted toward their degree.

Private, Parochial, or Out-of-State Colleges & Universities

Since these schools are not bound by Utah State Regent's policies, colleges/universities outside the Utah System of Higher Education may have specific requirements and may not accept all courses available at UVU. Students should contact the institution they are transferring to in order to determine how their credits will be accepted.

Brigham Young University

Brigham Young University accepts the Associate in Arts/Science Degrees for completion of its General Education requirements. Courses with grades of "D+" or lower will not transfer. Some departments at BYU have specific General Education course requirements that will still need to be taken at BYU. Individual departments at BYU should be consulted for exceptions.

Note: BYU has a limit on the number of transfer students admitted.

General Information

Mission

Utah Valley University is a teaching institution which provides opportunity, promotes student success, and meets regional educational needs. UVU builds on a foundation of substantive scholarly and creative work to foster engaged learning. The university prepares professionally competent people of integrity who, as life-long learners and leaders, serve as stewards of a globally interdependent community.

Core Themes & Objectives

Student Success: UVU supports students in achieving their educational, professional, and personal goals.

- Objective 1: UVU supports students' preparation for and achievement of academic success at the University.
- Objective 2: UVU provides a meaningful and well-rounded university experience.
- Objective 3: UVU prepares students for success in their subsequent academic, professional, and lifelong learning pursuits including serving as leaders, people of integrity, and stewards of their communities.

Serious: UVU fosters a culture of academic rigor and professional excellence.

Introduction

- Objective 1: UVU champions learning through outstanding teaching in an academically rigorous environment.
- Objective 2: UVU supports a culture of scholarship and creative work and promotes accomplishment in cultural, academic, and co-curricular/extramural endeavors.
- Objective 3: UVU attracts, develops, and retains high achieving students and highly qualified faculty, staff, and administrators.
- Objective 4: UVU is recognized for high-quality, efficient and effective programs and services.

Engaged: UVU engages its communities in mutually beneficial collaboration and emphasizes engaged learning.

- Objective 1: UVU faculty and staff engage students using real-world contexts within the curriculum and activities outside the classroom to increase professional competence and confidence.
- Objective 2: UVU fosters partnerships and outreach opportunities that enhance the regional, national, and global communities.
- Objective 3: UVU serves as a portal of civic engagement and an engine of regional economic and business development.

Inclusive: UVU provides opportunity for individuals from a wide variety of backgrounds and perspectives and meets regional educational needs.

- Objective 1: UVU provides accessible and equitable educational opportunities and resources for all students.
- Objective 2: UVU provides opportunities to improve intercultural competence in an increasingly complex, diverse, and globalized society.
- Objective 3: UVU provides an inviting, safe, and supportive environment for people from diverse backgrounds and perspectives.
- Objective 4: UVU offers an array of courses, programs, and delivery methods designed to reflect students' goals and the region's educational needs.

Essential Learning Outcomes

Integrative and Applied Learning: A student will engage in discipline-appropriate experiences with the academic and broader community through integrated and applied learning.

Intellectual and Practical Skills Foundation: A student will acquire a foundation of intellectual and practical skills including communication, quantitative reasoning, qualitative reasoning (critical, analytical, and creative thinking), and technical and information literacies.

People of Integrity: A student will become personally and socially responsible by acquiring, developing and demonstrating skills in ethical reasoning and understanding.

Professional Competency: A student will demonstrate professional competence by meeting the established standards of the discipline, working as a valued member of a team, effectively formulating and solving problems, and actively seeking and honing lifelong learning skills.

Stewards of Place: A student will demonstrate stewardship of local, national, and global communities by cultivating awareness of: interdependence among those communities; issues within those communities; and organizations and skills that address such issues.

Knowledge Foundation: A student will demonstrate knowledge of human cultures and the physical and natural world in the following areas of essential study: arts, history, humanities, languages, science and mathematics, social sciences. Knowledge Foundation refers to GE Distribution courses and other courses and experiences within the major.

Roles

As a regional state university, Utah Valley University:

Provides quality academic learning opportunities for students through programs at the certificate, associate, baccalaureate, and graduate levels. To encourage responsible citizenship, emphasis is placed on engaged teaching and learning as well as scholarly work, research, creative achievements, career and technical education and community and professional engagement.

Provides access to higher education and offers a broad range of opportunities from developmental education through honors programs. The institution provides services designed to meet the educational and personal needs of students, to foster student success, to prepare students for meaningful lifework, and to provide access through a variety of modalities, including satellite campuses and the use of technology.

Promotes economic and cultural development to contribute to the quality of life of the region and state. The institution fosters economic development and provides a talent-force to meet the needs of a dynamic economy by offering credit and non-credit programs and services for individuals and organizations. UVU provides cultural experiences that enrich the community and offer significant and varied opportunities for continuous learning.

Historical Development

Utah Valley University was established as Central Utah Vocational School in September 1941 with the primary function of providing war production training.

Post-war training needs found the school offering programs throughout the region and at the Utah County Fairgrounds. The three school districts within Utah County combined efforts to purchase a thirteen-acre site close to Provo High School.

In 1963, the name was changed to Utah Trade Technical Institute to emphasize its growing role in technical training. The name change to Utah Technical College at Provo in 1967 was accompanied by the authority to award the Associate in Applied Science Degree. The Associate in Science Degree was added in 1972.

The initial 185-acre Orem Campus was dedicated in 1977. In 1987, the name was changed to Utah Valley Community College and the Associate in Arts degree was added by the Utah State Board of Regents.

In 1993, the name was changed to Utah Valley State College reflecting the change in mission to offer high demand baccalaureate degrees.

The Utah State Legislature approved, in February 2007, a name change to Utah Valley University that became effective July 1, 2008. The Utah State Board of Regents approved the corresponding mission change in December 2007 to give authority to offer master level degrees; this also became effective July 1, 2008.

Accreditation

Utah Valley University is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

- **Northwest Commission on Colleges and Universities**
- 8060 165th Avenue N.E., Suite 100
- Redmond, WA 98052
- (425)-558-4224
- www.nwccu.org

The Northwest Commission on Colleges and Universities (NWCCU) is an independent, non-profit membership organization recognized by the U.S. Department of Education as the regional authority on educational quality and institutional effectiveness of higher education institutions in the seven-state Northwest region of Alaska, Idaho, Montana, Nevada, Oregon, Utah, and Washington.

In addition, some programs or majors have other specialized accreditation.

- **Specialized Accreditation, Certification, and Approvals**
- Web: www.uvu.edu/accreditation/specialized.html
-

Gainful Employment information is provided in compliance with the U.S. Department of Education's disclosure requirements for programs eligible for Title IV financial aid that prepare students for gainful employment in a recognized occupation as required in 34 CFR 668.6(b). All programs list the following information: CIP Code, Level of Program, Program Length, Tuition and required fees, Estimated costs for books and supplies, Debt at program completion, Program completion in Normal Time, Job Placement, and Related Occupations. Gainful Employment Program Disclosure is listed on all marketing materials for potential students.

Graduation

- **Graduation Office**
- Office: BA 114
- Telephone: 801-863-8438

Utah Valley University offers the following degrees: Master of Accountancy (MAcc), Master of Business Administration (MBA), Master of Computer Science (MCS), Master of Education (M.Ed.), Master of Science in Nursing (MSN), Master of Public Service (MPS), Master of Science in Cybersecurity (MS), Master of Social Work (MSW), Baccalaureate degrees, Associate in Applied Science (AAS), Associate in Arts (AA), Associate in Pre-Engineering (APE), Associate in Science (AS), Associate in Science in Business (ASB), Associate in Science in Nursing (ASN); Diplomas, and Certificates are also offered.

General Graduation Requirements

Students are expected to familiarize themselves with the rules and regulations of both the University and their specific majors. Detailed information concerning graduation requirements is available in this catalog as part of department descriptions. Responsibility for satisfying all graduation requirements rests upon the student. UVU reserves the right to change graduation requirements at any time.

The University confers degrees, diplomas, or certificates upon students who meet both the General Education requirements of the University and the specific requirements of one of the academic departments.

Credit Requirement

Certificate/Degree	Number of Semester Credit Hours Required for Completion
Certificates of Proficiency	Less than 30 credit hours
Certificates of Completion	30–33 credit hours
Diploma	50 credit hours
Associate in Applied Science Degree	63–69 credit hours (some disciplines may require more due to specialized accreditation)

Introduction

Associate in Arts or Associate in Science degree	60–63 credit hours
Specialized Associate's degrees	68-85 credit hours
Baccalaureate degree (Bachelor of Arts, Bachelor of Science, and Professional Bachelor's degrees)	120–126 credit hours, 40 of which shall be upper-division credits (level 3000 and above)
Graduate Certificate	9–29 credit hours

Please see the Graduate Studies section of the catalog regarding credit requirements for master degree programs.

Grade Point Average Requirement

A minimum cumulative grade point average (GPA) of 2.0 (C) is required for graduation. In some programs specific course grades below 2.0 will not be accepted for graduation and some programs require a higher cumulative grade point average (see individual program requirements).

Graduation Catalog Requirement

Candidates for graduation will be held to the requirements of the catalog under which they were admitted. Students have a maximum of 7 years to complete bachelor degrees and 5 years to complete associate degrees; 6 years are allowed for master degrees. In the case of bachelor degree programs, the seven year limit begins when a student is formally matriculated into the program. When students take longer than the given years to complete, they must choose from any one catalog published within the accepted period prior to their graduation. Programs that are no longer being offered may not be pursued by students who were not admitted or formally matriculated in that program during the accepted period of time. Students may not combine portions of different catalogs to fulfill graduation requirements. Once a catalog is selected, students must abide by all the graduation requirements specified within that catalog. Minors can only be sought if offered during that catalog year. Please see the Graduate Studies section of the catalog regarding catalog year requirements for master degree programs.

Global/Intercultural Requirement

The Global/Intercultural requirement is a graduation requirement at the baccalaureate degree level. Courses that may be used to complete this requirement will be coded with a GI course attribute. The purpose of the Global/Intercultural requirement is to assist students to become better prepared to understand and participate in the global and cultural interdependencies that characterize our world. Students who take courses at another university and want to use them for the Global/Intercultural requirement must petition through the GI committee. See the Office of Senior Registrar (BA 114) for further information. For a complete listing of the courses offered at UVU that fulfill this requirement, see the Course Descriptions section in the back of this catalog for course numbers ending in "G".

Residence Requirement

Credit hours in residency (UVU credits) at a UVU campus, satellite, or branch campus, or through distance education or concurrent enrollment, are required for all certificates, diplomas, and degrees. Minimum hours are as follows:

1. Certificates of proficiency require 25% of total credit hours (rounded up);
2. Certificates of completion require 10 credit hours;
3. Associate degrees and diplomas require 20 credit hours;
4. Baccalaureate degrees require 30 credit hours (10 credits of those 30 shall have been completed within the last 45 credit hours earned for the degree).

Multiple Degrees

Students may earn multiple certificates. Students may earn only one academic associate degree from Utah Valley University; either an Associate in Science or an Associate in Arts. With some exceptions, students may earn multiple Associate in Applied Science (AAS) degrees, specialized associate degrees, and baccalaureate degrees.

A second bachelor's degree may be awarded when all requirements for both degrees are satisfied, along with the following:

1. All UVU General Education requirements are satisfied;
2. Thirty semester hours beyond the original degree are completed;
3. Twenty semester hours of the 30 hours in item 2 above must be completed at UVU (resident hours);

Dual Baccalaureate Majors (One Degree– with Two majors)

A baccalaureate degree with dual majors may be awarded when students complete all requirements for two approved degrees from the approved dual majors list, but has not met the required 30 semester hours for a second degree beyond the original degree. The student shall receive a single baccalaureate degree; the diploma and transcript shall list both majors.

Other information regarding the dual major:

1. Students apply for graduation for one degree, and only one degree type, such as a Bachelor of Arts, or a Bachelor of Science;
2. In order to be awarded a dual major, both majors must be completed during the semester when (or prior to) applying for graduation
3. If Students have already graduated in one of the majors, they may not apply for a dual major.
4. After being awarded a dual major degree, students may not apply for graduation for one of the dual majors separately.
5. Students shall have no more than three course substitutions from the required courses for the two majors combined.
6. Students may not receive minors in either major, but may be awarded a minor from another area if all requirements are met.
7. Credits shall not exceed the 160 credit hour limit with the two combined majors.

Degree Requirements

Master Degrees

Please see the [Graduate Studies](#) section of the catalog regarding degree requirements.

Bachelor of Arts/Science Degrees

Graduation requirements for the Bachelor of Arts/Science Degrees are:

- Completion of a minimum of 120 semester credits, or more if specified by program requirements;
- Overall grade point average of 2.0 (C) or above. Departments may require a higher GPA.
- Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours;
- At least 40 credit hours in upper division courses;
- Completion of General Education requirements. See General Education section above for specific courses required for graduation;
- Completion of specific departmental (major) requirements;
- Completion of Global/Intercultural Requirement course.

For a Bachelor of Arts Degree in programs offering the degree, students must complete 16 credit hours of course work from one language to include the 1010, 1020, 2010 and 202G levels, or transferred equivalents. Some ESL course work may be used to fulfill this requirement. See the ESL department for specific details.

Note: Academic departments may require specific General Education courses in addition to major requirements.

Multiple Emphases

Students may earn additional emphases, with departmental approval under a specific bachelor's degree by completing the requirements for those emphases. Additional emphases shall appear on transcripts, but no additional diplomas will be awarded.

Associate in Arts/Science Degrees*

Graduation requirements for the Associate in Arts/Science Degrees are:

- Completion of a minimum of 60 or more semester credits;
- Overall grade point average of 2.0 (C) or above. Departments may require higher GPA;
- Residency hours - minimum of 20 credit hours earned through course attendance at UVU;
- Completion of General Education requirements. See General Education section for specific courses required for graduation;
- Completion of specific department (major) requirements.

Note: Academic departments may require specific General Education courses in addition to major requirements.

*The Associate in Arts Degree differs from the Associate in Science Degree in that a minimum of 8 credits must be earned in the same Foreign Language.

Language Proficiency

A second language is required to obtain the Associate in Arts Degree. This language must be different from the student's native language. Language proficiency may be demonstrated by any one of the following methods:

- Eight credits of the same language taken at UVU or transferred from another college; or
- Application of foreign language challenge credit as described in the Foreign Language Challenge Procedures (available from the Languages Department Chair);
- Language credit does not apply to the General Education Humanities Distribution area (except for any 202G course) but will apply as elective credit in the Associate in Arts/ Science Degree and as Humanities credit for the Associate in Applied Science Degree.

Associate in Applied Science Degrees

Graduation requirements for the Associate in Applied Science Degrees are:

- Completion of a minimum of 63 semester credits;
- Overall grade point average of 2.0 (C) or above;
- Residency hours - minimum of 20 credit hours earned through course attendance at UVU;
- Completion of department General Education requirements;
- Completion of specific department major requirements.

Diplomas

Diplomas require a minimum of 50 credits in a specialty area. Some programs offering Associate in Applied Science Degrees also offer diplomas. Not all departments offer diplomas. See specific department program listings for details.

Certificates of Completion

Certificates of Completion require a minimum of 30 credit hours. Not all departments offer a Certificate of Completion. See specific department program listings for details.

Certificates of Proficiency

Certificates of Proficiency vary in credit hours from 3-29 credit hours. Not all departments offer a Certificate of Proficiency. See Specific department program listings for details.

General Graduation Information

Application for Graduation

Introduction

Graduation is not automatic. Prospective graduates must complete the online Graduation Application via Wolverine Track in myUVU. Applicants may also be required to fill out additional forms/surveys. The application must be completed by the Application deadline as listed below:

Application Deadlines

- Fall semester: First Friday in October
- Spring semester: First Friday in February
- Summer semester: First Friday in June

Graduation applications are processed each semester. Diplomas are mailed to graduates after final grades are reviewed and graduation requirements are verified as completed for all students at the end of the semester. Students failing to complete graduation requirements by the following dates for which they have applied must reapply for graduation.

REQUIREMENT DEADLINES

- Fall semester: January 15th
- Spring semester: May 31st
- Summer semester: September 15th

Requirements may include, but are not limited to: all current semester grades, all "I" (Incomplete) and "M" (Missing) grades, grade changes, challenge and experiential credit, AP (Advanced Placement) credits, CLEP (College Level Examination Program) and DSST (DANTES Subject Standardized Tests) credit, transferred credit, required testing and departmental exceptions. All of these items MUST be completed and submitted by the above deadlines. Failure to comply will cause the student to have their graduation declined for that semester. Students will then have to apply for another graduation semester.

Commencement

Commencement exercises are held once each year at the end of spring semester. Students who have completed their graduation requirements during the summer, fall, or spring of that academic year are invited to participate. Attendance is strongly encouraged, but not mandatory.

Financial Holds

Candidates for graduation who owe money to UVU will not receive their diplomas until all debts are paid.

Graduation with Distinction

Honors at graduation are available to students who meet the following minimum cumulative grade point averages: (Honors designations are computed on hours completed; 20 hours minimum for associate degrees; 30 hours minimum for bachelor degrees.) These Distinctions are awarded and based only upon GPA and are not related to participation in the UVU Honors Program.

- **Associate Degrees**
 - Honors GPA 3.60
 - High Honors GPA 3.80
- **Bachelor Degrees**
 - Cum Laude GPA 3.60
 - Magna Cum Laude GPA 3.80
 - Summa Cum Laude GPA 3.90

Note: Please contact the Honors Program (LC 204) for information about the UVU Honors Program.

Valedictorians

Each of the Colleges and Schools of the University will select a valedictorian from a list supplied by the Graduation Office of candidates graduating with honors during the academic year. The status of valedictorian is determined by each school and college, based on competitive criteria. Please check your school or college for requirements and details.

Registration

- **Registrar's Office**
- Office: BA 113
- Telephone: 801-863-8493

Registration Procedures

A schedule of classes is published online every semester in advance of each registration period, indicating courses offered, times, instructors, and room assignments. Registration procedures are available online at www.uvu.edu.

Special Notice to Students

It is the responsibility of the student to verify registration accuracy and completeness.

University Advanced Standing Requirement

Before students can register for upper-division coursework (3000 or higher), they must qualify for University Advanced Standing (UAS) by:

- Completing, and/or transferring in, at least 24 credits of college-level coursework (1000 or higher);
- Having a cumulative GPA of 2.0 or higher;
- Complete Quantitative Literacy, (MAT 1030 or higher) **and** ENGL 2010 or equivalent.

Academic departments may also establish additional advanced standing requirements that must be met before students will be allowed to enroll in upper-division courses within their disciplines.

Change of Registration (Add/Drops)

After initial registration, students may modify their schedules by adding, dropping, withdrawing, or changing to audit. The Semester Student Timetable specifies the time period when changes may be made.

If a class is full and has a Wait List option, students may add themselves to the Wait List. A Wait List is an electronic list of students who want to enroll in a course that has reached maximum capacity (closed). Wait List is first come, first serve according to the date and time the student selects the Wait List option.

Registration on the first day of the semester/term or later is considered late. Online registration will be available through the deadline date noted in the Student Timetable.

After the Wait List period ends, students wanting to add a class late will be required to follow the Late Registration procedures which include obtaining the instructor and department approval and paying the corresponding fee for each class added late. Students may not attend classes for which they are not officially enrolled.

Students who add classes must pay appropriate tuition/fees for any additional credit by the published dates in the Student Timetable.

Students may drop and withdraw from classes according to the dates and deadlines posted in the Semester Student Timetable. Classes may be dropped and not appear on the transcript through the "Last Day to Drop" deadline. After the last day to drop, a grade of "W" will appear on the transcript for all official withdrawals and students will be responsible for tuition and fees. Withdrawing from a course after this deadline may only be for extenuating circumstances and not solely for academic difficulty, and requires the signature of the department chair with a department approval stamp. Such changes to a student's schedule may adversely affect current and future financial aid, scholarships and/or refunds. Students are cautioned to see a financial aid advisor before attempting to completely withdraw from school. A "W" grade could impact a student's satisfactory academic progress with the Financial Aid and Scholarships Office.

Administrative Drops and Withdrawals

Students may be dropped or withdrawn from classes by the administration if they: 1. Register, but do not attend courses within the first three days of a semester; 2. Register for courses for which they have not completed prerequisites; 3. Neglect to pay tuition and fees for any given semester/term by the deadline published in the Student Timetable; or 4. Other administrative reasons. Such changes to a student's schedule could affect financial aid, scholarships, and/or refunds.

Auditing

Students may choose to register for classes on an audit basis (register for classes as a "listener" without receiving credit). Tuition, registration times and add/drop criteria are the same as for regular class registration. For an audit, the student must complete and sign an "audit form" at the Registrar's Office. Audits may only be requested through the audit deadline specified in the Semester Student Timetable. Students may not change from audit to credit status.

Classes appear as "AU" (audit) on the official transcript. Since they are noncredit, they do not count in the credit load for foreign students, veterans, students receiving financial aid, etc.; nor do they fill graduation requirements.

Students may not challenge courses that they have audited. An incomplete grade may not be made up by repeating the class for audit.

Noncredit Continuing Education Unit (CEU)

The Division of Continuing Education offers a variety of courses and programs for life-long learning. Many of these programs are offered under a noncredit option. The Continuing Education Unit (CEU) is a means for measuring and recording noncredit study.

Noncredit or Continuing Education Students are taking courses to pursue personal or professional interest, gain general knowledge, learn a new skill, upgrade existing skills, or enrich their personal understanding of a wide variety of topics. These courses do not offer college credit, but in some cases noncredit or continuing education students can earn continuing education units, certification or other evidence of class completion to meet personal or professional requirements. Noncredit course work cannot be substituted for a credit requirement or any required course on a degree pathway.

Student Rights and Responsibilities

Purpose of this Policy

The purpose of the enactment of a student rights and responsibilities code is to set forth in a clear and concise manner the rules and regulations of conduct expected of those who join the institution's community. Students, faculty, staff and administration should always exercise their freedom with personal responsibility. This code will outline due process for handling alleged student violations of institutional policies, including, but not limited to the responsibilities set forth in this policy. Further, the purpose of this policy is to delineate the range of sanctions for such violations, and establish procedures for appeal of disciplinary sanctions.

Introduction

The institution expects all students to obey the law, to show respect for properly constituted authority, to perform contracted obligations, to maintain absolute integrity and high standards of individual honesty in academic work, and to observe a high standard of conduct within the academic environment. In short, a student enrolled in the institution accepts the obligation to conduct themselves in an appropriate manner acceptable at an institution of higher learning.

Policy

Members of the student body should exercise their freedoms with personal responsibility. Should violations of the Student Rights and Responsibilities Code occur, sanctions may be enforced for the protection of the institution and its members.

Behavior which violates the Student Rights and Responsibilities Code should be reported to the office of Student Conduct 801-863-5841 (non-emergency) or Campus Police 801-863-5555 (emergency).

A. General Rights

1. A student, while properly enrolled at the institution, will have the right to the following institutional services, treatment and information:
 - a. Free and open discussion, inquiry and expression, subject to constitutional limitations regarding time, place and manner.
 - b. Protection against the institution's improper disclosure of a student's records, work, views, beliefs and political associations.
 - c. Procedural safeguard and personal privacy with respect to testing for drugs and infectious diseases (e.g., AIDS).
 - d. Timely and understandable information and respectful treatment regarding policies, refunds, lab and course fees, library fines, lab breakages, liability, etc.
 - e. Freedom from a discriminatory and offensive environment that may cause emotional stress or a hostile or offensive campus environment directed toward another person.
 - f. Freedom from sexual harassment.
 - g. Full protection under the Constitution for freedom of the press, including constitutional limitations on prior restraint and censorship.
 - h. Due process of law recognized as being essential to the proper enforcement of institution rules.
 - i. Security for his/her person, papers and personal effects against unreasonable searches and seizures.
 - j. Freedom to form and operate an organized student association within the guidelines prescribed by the institution.
 - k. Access to the institution's Ombudsman for consultation in matters of personal and school issues and concerns.
 - l. Student representation through student government on institutional committees, councils, commissions and other formally constituted bodies that make general policy and procedure decisions directly affecting students or that govern student activities and conduct.
 - m. Access to all student government sponsored activities.
 - n. Accurate information in advertising, recruitment, and orientation efforts.

B. Academic Rights

1. A student will have the following rights in academic affairs, services and information when properly enrolled as a student at the institution:
 - a. Performance evaluation based on a written syllabus.
 - b. Appropriate and open discussion, inquiry and expression, both in the classroom and in student/instructor conferences.
 - c. Freedom to take exception to the views presented in a classroom setting and to reserve judgment in matters of opinion.
 - d. Professional and ethical conduct from all institutional personnel.
 - e. Competent and professional instruction.
 - f. Competent academic advisement.
 - g. Protection against improper disclosure of a student's records, academic work, views, beliefs and political associations.
 - h. Information prior to registering regarding the costs of tuition, activity fees, lab fees, etc.
 - i. Scheduled access to and the use of institutional services, facilities and programs.
 - j. Accurate information regarding course offerings, programs, majors, transfer policy, and institutional requirements and expectations.
 - k. Accurate information regarding changes in course programs or institutional requirements and reasonable accommodation of those already enrolled in a program or classes.
 - l. The right to receive academic credit and/or academic degrees when all specified requirements and coursework have been satisfied.
 - m. The right to appeal to the Academic Standards Committee regarding grade changes, withdrawals, etc.

C. General Responsibilities

1. A student assumes the responsibility to conduct himself/herself in an appropriate manner. Categories of misconduct that are not considered responsible behavior include, but are not limited to, the following:
 - a. Failure to respect the right of every person to be secure from fear, threats, intimidation, harassment, hazing and/or physical harm caused by the activities of groups or individuals.
 - b. Sexual assault, harassment, or any other unwelcome verbal or physical sexual activity, including the support or assistance of such activities.
 - c. Unauthorized seizure or occupation of any institutional building or facility.
 - d. Obstruction, disruption or interference with teaching, disciplinary proceedings, institution-sponsored activities and services or events.
 - e. Use or possession of any weapon, explosive device, or fireworks on a person or storage of such on institutional property without prior written approval from the Chief of Campus Police.
 - f. Unlawful use, possession, distribution, sale, manufacture, or possession for purposes of distribution or sale of any controlled substance or illegal drug on any property or in any building owned, leased or rented by the institution or at any activity sponsored by the institution.
 - g. Initiation or circulation of any false report, warning or threat of fire, bombs or explosives on institutional premises or during institution-sponsored events.
 - h. Violation of the Utah Indoor Clean Air Act and/or the institution smoking policy (institution Policy 158 Tobacco).
 - i. Sale, possession, manufacture, distribution or consumption of alcoholic beverages on institution properties.
 - j. Unauthorized possession, forging, altering, misusing or mutilating of institutional documents, records, educational materials, identification, (e.g., personal ID, parking decal, etc.) or other institution property.
 - k. Violation of city ordinances and/or state statutes regarding gambling.
 - l. Delivery of false information to institutional personnel.
 - m. Theft or malicious destruction, damage or misuse of institution property or private property of another person on the institution campus or when engaged in activities sponsored or supervised by the institution off campus.

- n. Intentional or reckless destroying, defacing, vandalizing, damaging or misusing the property, equipment, materials, services or data of the institution.
- o. Unauthorized possession or use of a key to any institution facility or equipment.
- p. Obscenity and lewd conduct as defined by institution policy, city ordinances, and/or state statutes.
- q. Failure to adhere to all laws and regulations governing the duplication and use of copyrighted materials including, but not limited to, printed and audio materials, video, film, and/or computer software.
- r. Unauthorized use or charges to any institution telephone for long distance calls. Institution telephones are for business use only.
- s. Unauthorized off-campus fund raising activities on behalf of the institution. All fund raising must have prior written approval from the institution's Development Office.
- t. Intent to defraud the institution in any financial matter including, but not limited to:
- u. Failure to conduct oneself in a way that does not endanger the health and well-being of other student and institution personnel.
- v. Unauthorized commercial ventures or enterprises on institution property.
- w. Bringing animals on campus, except for those serving the disabled or those used for educational purposes.
- x. Allowing children in institution classrooms or laboratories (unless they are an integral part of instruction) or leaving children unattended in hallways and restrooms or at institution-sponsored events and functions.
- y. Students are encouraged to report violations of this policy to an appropriate institutional office.
 - a. non-redemption of personal checks refused by a bank;
 - b. sale/resale of supplies, books, or equipment in violation of institution agreements;
 - c. falsifying institution financial records; and/or
 - d. non-payment of tuition and fees as set forth by institution regulations.

D. Academic Responsibilities

1. Each student is expected to take an active role in the learning process by meeting course requirements as specified in written syllabi.
2. Each student is expected to display appropriate conduct in classroom situations, that will enhance the learning environment.
3. Faculty members have the right to establish classroom standards of behavior and attendance requirements. Students will be expected to meet these requirements and make contact with faculty members when unable to do so.
4. Each student is expected to maintain academic ethics and honesty in all its forms, including, but not limited to, cheating and plagiarism as defined hereafter:
 - a. Cheating is the act of using or attempting to use or providing others with unauthorized information, materials or study aids in academic work. Cheating includes, but is not limited to, passing examination answers to or taking examinations for someone else, or preparing or copying other's academic work.
 - b. Plagiarism is the act of appropriating another person's or group's ideas or work (written, computerized, artistic, etc.) or portions thereof and passing them off as the product of one's own work in any academic exercise or activity.
 - c. Fabrication is the use of invented information or the falsification of research or other findings. Examples include but are not limited to:
 1. Citation of information not taken from the source indicated. This may include the incorrect documentation of secondary source materials.
 2. Listing sources in a bibliography not used in the academic exercise.
 3. Submission in a paper, thesis, lab report or other academic exercise of falsified, invented, or fictitious data or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence.
 4. Submitting as your own any academic exercise, (e.g., written work, printing, sculpture, etc.) prepared totally or in part by another.

E. Expectations

1. The institution expects all students to maintain integrity and high standards of individual honesty in academic work, to obey the law, and to show respect for others.

F. Where Policy Applies

1. The Student Rights and Responsibilities Code applies to conduct that is in violation of institution Policy 541, The Student Rights and Responsibilities Code that occurs on institutional premises and at institution-sponsored activities. It also applies to off-campus conduct that adversely affects the campus community and/or the pursuit of its objectives. The Student Rights and Responsibilities Code applies to a student's conduct even if the student withdraws from the institution while a disciplinary matter is pending. The Director of Student Conduct shall decide whether the Student Rights and Responsibilities Code shall be applied to conduct occurring off-campus, on a case-by-case basis.

G. Informal Resolution

1. Informal resolution of differences or appeals shall be encouraged.

H. Academic Infractions (Grades)

1. Responsibility for and authority over Academic Infractions, and other academic appeals, including Grade Appeals, shall reside with the Dean of the academic area in which an issue may arise.

I. General Infractions

1. Responsibility for and authority over General Infractions shall reside with the Dean of Students.

J. Composition of Campus Appeals Board

1. The Campus Appeals Board shall consist of two faculty members from each academic area appointed by the Faculty Senate in consultation with the respective academic Deans, three staff members appointed by PACE, with approval of the staff members' supervisors, and three students appointed by the Student Body President. Appointments of faculty and staff shall be for three-year rotating terms. Three student members shall be appointed to a one-year term. The Director of Student Conduct shall obtain names from the appointing entities annually prior to May 1, and shall send a letter of appointment to those appointed. The Director of Student Conduct shall organize the initial term lengths for the rotating members of the Board to allow an orderly rotation. The Director of Student Conduct shall chair the Board in a non-voting capacity.

K. Responsibilities of Board

1. The Campus Appeals Board shall be trained by the Office of Student Conduct in due process and other Student Rights and Responsibilities Code matters. A subset of the Board shall hear appeals, as necessary. In hearing appeals, the Board shall be concerned primarily with due process and fairness, recognizing that they do not have the full

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awareness of professional competence and context, in general. In addition to hearing appeals, the Board shall have the responsibility to train faculty and staff in the Student Rights and Responsibilities Code's (institution Policy 541, Student Rights and Responsibilities Code) expectations, procedures, and due process.

L. Confidentiality

1. Confidentiality shall be maintained for all parties to Student Rights and Responsibilities Code actions, except as necessary to provide due process. If the Campus Appeals Board finds a complaint to be without merit, records of the complaint and proceedings shall be destroyed.

M. Sanctions

1. Sanctions must be applied in a fair and impartial manner. Sanctions are assigned in accordance with two criteria: (1) Educational value for the student found in violation of institution Policy 541, the Student Rights and Responsibilities Code, (2) Commensurability of the violation and the assigned sanction.
2. Academic sanctions that may be imposed include:
 - a. Warning
 - b. Requiring a student to retake an exam(s)
 - c. Requiring a student to re-write a paper(s) and/or repeat an assignment(s)
 - d. A grade reduction
 - e. A failing grade
 - f. Probation with specified conditions
 - g. Suspension from the Department, School, or Institution (must be reviewed and confirmed by Vice President of Academic Affairs and President)
 - h. Expulsion from the Department, School, or Institution (must be reviewed and confirmed by the Vice President of Academic Affairs and President)
 - i. Revocation of admission or degree (for fraud, misrepresentation, or other serious violations of institution standards in obtaining the degree; must be reviewed and confirmed by the Vice President of Academic Affairs and President)
 - j. Withholding degree until completion of process and other sanctions relating to a violation of the Student Rights and Responsibilities Code
3. Sanctions that may be imposed for General infractions include:
 - a. Warning
 - b. Probation with specific conditions
 - c. Loss of privileges
 - d. Fine
 - e. Restitution
 - f. Discretionary Sanctions such as work assignments, personal development assignments, essays, or service assignments.
 - g. Suspension from the Department, School, or Institution (must be reviewed and confirmed by Vice President of Student Affairs and President)
 - h. Expulsion from the Department, School, or Institution (must be reviewed and confirmed by the Vice President of Student Affairs and President)
 - i. Revocation of admission or degree (for fraud, misrepresentation, or other serious violations of institution standards in obtaining the degree; must be reviewed and confirmed by the Vice President of Student Affairs and President)
 - j. Withholding degree until completion of process and other sanctions relating to a violation of the Student Rights and Responsibilities Code
 - k. Organizational sanctions, including loss of selected rights and privileges, up to and including deactivation, from the offending organization for a specific period of time
4. Interim suspension:
 - a. In urgent circumstances, interim suspension may be imposed as outlined below:
 1. A classroom instructor, Department Chair, or Dean may ask Campus Police to remove a student immediately from the classroom or other academic area.
 2. If a student is removed, an immediate report must be made to the Director of Student Conduct by the instructor, Chair, or Dean who instigated the removal.
 3. The Director of Student Conduct may impose institutional suspension prior to the completion of appeals and final imposition of sanctions.
 4. Interim suspension may be imposed only:
 - a. to ensure the safety and well-being of members of the Campus Community or preservation of institutional property; or
 - b. to ensure the student's own physical or emotional safety and well-being; or
 - c. if the student poses an ongoing threat of disruption of, or interference with, the normal operations of the institution.
 - d. During the interim suspension, a student shall be denied access to the campus, including classes, and all other institutional activities or privileges for which the student might otherwise be eligible, as the Director of Student Conduct or the Dean of Students may determine to be appropriate.
 - e. The interim suspension does not replace the regular due process, which shall proceed on the normal schedule.
 - f. The student shall be notified in writing of this action and the reasons for the suspension. The notice should include the time, date, and place of a subsequent hearing at which the student may show cause why his or her continued presence on campus does not fall within the reasons above (and which they may contest whether a campus rule was violated).

N. Multiple Offenses, Pattern of Behavior

1. If a student is found guilty of the reported infractions and sanctions in his/her disciplinary record, then the Director of Student Conduct shall report the particulars of the student's disciplinary record to the Campus Appeals Board for review of the larger pattern of misbehavior. If a larger pattern of misconduct should appear, additional disciplinary measures may be imposed by the Campus Appeals Board.

O. No Reprisals

1. No reprisals shall be taken by or against any party or legitimate participant in the appeal process by reason of such participation. However, individuals furnishing false information and/or documentation at any point in the formal process described in this policy are subject to disciplinary action.

P. Disciplinary Records

1. Records of disciplinary actions shall not be made a part of the student's academic record except through the appearance in the academic record of grade reductions or failing grades, but shall become part of the student's disciplinary record. The disciplinary record shall be reviewed and expunged. In situations involving both an accused student(s) (or group or organization) and a student(s) claiming to be the victim of another student's conduct, the records of the process and of the sanctions imposed, if any, shall be provided to the disciplinary/educational records of both the accused student(s) and the student(s) claiming to be the victim because the educational career and chances of success in the academic community of each may be impacted.

Q. Concurrent Jurisdiction

1. In cases of overlapping or concurrent jurisdiction, the Dean of Students and the relevant Academic Dean shall negotiate to agree on the locus of primary jurisdiction. The Dean of primary jurisdiction shall then control the process and communicate outcomes to the other Dean.

R. Student Rights & Responsibilities

1. Student Rights and Responsibilities are delineated in institution Policy 541, Student Rights and Responsibilities Code. Students are also subject to other institutional policies. Alleged violations of institutional policies by students shall be handled according to the procedures set forth below.

S. Appeals Process, Determination & Application of Sanctions

1. Academic Infraction Due Process Procedures
 - a. Instructors shall discuss allegations of misconduct with the accused student in a confidential environment.
 - b. Sanctions associated with Academic Infractions shall be reported by the instructor to the student, within ten (10) business days of the imposition of the sanction by the instructor. Except in cases where there is a significant threat of disruption or of undermining of the academic integrity of the course, instructors shall refrain from implementing irreversible sanctions (e.g. denying access to class or a final exam) until the student has exhausted all appeals.
 - c. Before an appeal, the student must attempt to resolve the issue informally with the instructor.
 - d. In case of an appeal, documentary evidence shall be deposited by the instructor and/or the student with the Office of Student Conduct. Said office shall maintain original documents in a secure location and shall make copies available to the parties and the hearing officer for the appeal. Whether or not there is documentary evidence to deposit, the instructor shall file a copy of allegations with the Office of Student Conduct. Said copy shall be clearly labeled "under appeal" and shall not become a part of the student's disciplinary record until appeals are exhausted.
 - e. Sanctions may be modified at any point in the appeals process if evidence warrants.
 - f. If the student chooses to appeal the instructor's decision, the appeal must be made in writing to the Department Chair within ten (10) business days of the instructor's final decision.
 - g. The Chair will render a decision in writing to the student and the instructor within ten (10) business days of receiving the student's written appeal.
 - h. If either the student or the instructor chooses to appeal the Chair's decision, the appeal shall be made in writing to the campus Appeals Board within ten (10) business days of the Chair's decision, or if the student and instructor agree, the appeal may be made directly to the Dean rather than the Board.
 - i. The hearing body, whether it is the Board or the Dean, shall render a decision in writing to the student and the instructor, with a copy to the Chair, within ten (10) days of receiving the written appeal.
 - j. If either the student or the instructor chooses to appeal a decision of the Board, the appeal shall be made in writing to the Dean within ten (10) business days of the Board's decision. The Dean shall be responsible for determining remediation and sanctions after a finding by the Board that Academic Misbehavior occurred.
 - k. The Dean shall render a decision in writing to the student and the instructor, with a copy to the Chair, and to the Board if they heard the previous appeal, within ten (10) business days of receiving the written appeal.
 - l. The decision of the Dean as to findings of Academic Infraction(s), remediation, and sanctions shall be final except for review of proposed suspension by the Vice President of Academic Affairs (VPAA) and of proposed expulsion, revocation of admission or degree by the VPAA and President.
 - m. Final decisions in which allegations of Academic Infraction(s) have been sustained shall be reported by the final deciding body (or by the instructor in case there are no appeals) to the Office of Student Conduct, with copies to the student or other parties to the appeal, within ten (10) business days of the decision.
2. General Infraction Due Process Procedures
 - a. All allegations of General infractions will be reported to the Office of Student Conduct within ten (10) business days of sufficient information being gathered. Discussions of allegations with the students involved shall take place in a confidential environment. Documentary evidence shall be deposited by the accuser and/or the student with the Office of Student Conduct. Said Office shall maintain original documents in a secure location and shall make copies available to the parties and the hearing officer for the appeal. The allegations shall not become a part of the student's disciplinary record until appeals are exhausted.
 - b. The Office of Student Conduct will notify the student within five (5) business days after receiving a report of violation and schedule a hearing with the Director of Student Conduct.
 - c. The Director of Student Conduct will determine the merit of the complaint and assign sanctions if the complaint is found to be meritorious and to warrant sanctions. The Director of Student Conduct shall notify the student in writing of his or her finding and of any sanctions within ten (10) business days of the hearing. Except in cases of urgent circumstances, the Director of Student Conduct shall refrain from implementing irreversible sanctions until the student has had the opportunity to fully pursue the appeals process.
 - d. Sanctions may be modified at any point in the appeals process if evidence warrants.
 - e. If the student chooses to appeal the decision of the Director of Student Conduct, the appeal shall be made in writing to the Campus Appeals Board within ten (10) business days of the Director's decision. The student may choose to appeal directly to the Dean of Students rather than the Board.
 - f. The hearing body, i.e. the Board or the Dean of Students, shall render a decision in writing to the student and the Director of Student Conduct within ten (10) business days of receiving the written appeal.
 - g. If the student chooses to appeal the decision of the Board, the appeal shall be made in writing to the Dean of Students within ten (10) business days of the Board's decision. The Dean of Students shall be responsible for determining remediation and sanctions after a finding by the Board that a general infraction was committed.
 - h. The Dean of Students shall render a decision in writing to the student and the Director of Student Conduct, with a copy to the Board if they heard the previous appeal, within ten (10) business days of receiving the written notice.
 - i. The decision of the Dean of Students as to findings of General Infractions, remediation, and sanctions shall be final except for review of proposed suspension by the Vice President of Student Affairs (VPSA) and of proposed expulsion, or revocation of admission or degree by the VPSA and President.
 - j. Final decisions in which allegations of General Infractions have been sustained shall be reported by the final deciding body to the Office of Student Conduct, with copies to the student and other parties to the appeal, within ten (10) business days of the decision.
3. Withdrawal of Appeals-An appeal may be withdrawn by the appellant at any time without prejudice.

T. Campus Appeals Board Hearings

1. The Campus Appeals Board Chair shall convene a subcommittee from its members. The subcommittee of the Board shall consist of two members from the School of Division referring the appeal, a third member from another unit of the institution, two students, and a staff member to hear any appeal.

U. Disciplinary Records

1. The Office of Student Conduct shall be responsible for facilitating written appeals and for keeping records of all decisions under this code, whether general or academic.
2. When a sanction has been imposed and made final after any appeals process, a report shall be submitted to the Office of Student Conduct by the final deciding instructor, officer, or Board.

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- a. Disciplinary records shall be kept confidential, and access, as necessary for carrying out their duties, shall be limited to Deans and institutional line officers above the Deans, the Office of Student Conduct, and members of the Campus Appeals Board. Nevertheless, students may give written consent to faculty members or other institutional employees to view their disciplinary records. A student requesting a recommendation that asks about disciplinary actions shall be presumed to give implied consent to the recommender to see the disciplinary record.
- b. When the student's disciplinary record shows multiple similar infractions or a pattern of improper behavior, the Director of Student Conduct shall report the case to the Campus Appeals Board for further review. The Board shall hold a hearing with the student and determine further sanctions, if necessary and appropriate.
- c. Determinations of when records are to be expunged or reports removed are to be made only by the Office of Student Conduct in order to maintain a single institutional standard for retention of records of Student Conduct Code actions.
- d. Factors relevant to the decision to retain or delete specific records include:
 1. How much time has elapsed since the infraction (generally, at least five (5) years).
 2. Whether the student has graduated.
 3. The seriousness of the infraction and the resulting sanctions - institutional suspension, expulsion, and revocation of admission or degree shall be considered for expunging only upon application by the student to the Director of Student Conduct and then only with the concurrence of the relevant Dean, Vice President, and the President.
- e. Students shall apply to the Director of Student Conduct to have their disciplinary records expunged. If the student applying for expungement has graduated, or if the disciplinary records are at least five (5) years old, they shall be expunged unless the Director of Student Conduct finds circumstances requiring retention of the records, except in the cases of suspension, expulsion, or revocation or withholding of a degree require further review.

Student Services

Academic Counseling Center

- See [University College](#).

Academic Standards

- See [University College](#).

Academic Tutoring

- See Tutoring and Academic Skills Services (TASS) in [University College](#).

Accessibility Services

- **Services for Students with Disabilities**
- Office: LC 312
- Telephone: 801-863-8747

The Accessibility Services Department serves Utah Valley University students and the community by providing access to the campus and curriculum for individuals with disabilities to facilitate, support, and encourage their academic success, their retention and ensure their academic rights. Services are available to students who have documentation substantiating various conditions (including a physical, psychological, or learning disability) and may include: sign language interpreting, testing accommodations, text in audio format, note taking, adaptive equipment, transfer of printed material to Braille, and other individualized services.

Alumni Association

- Office: AL 003
- Telephone: 801-863-8179

The purpose of the UVU Alumni Association is to create lasting relationships between students, alumni and friends of the University for the advancement of the University.

The UVU Alumni Association provides benefits and support for over 200,000 UVU alumni, and is responsible for many services, like publishing UVU Magazine, providing benefits programs, Alumni Awards, Founder's Day, the Family Fun Fair, Homecoming and other similar offerings. In addition, the Alumni Association maintains its home page at uvualumni.org, where both students and alumni can access various services of the association through the online community.

The UVU Alumni Association also sponsors the Student Alumni Association, which is involved in hosting important events and activities on campus, and at regional and national conferences. In addition, they are involved in service projects and annual student giving campaigns. Membership in the Student Alumni Association is open to all students, and applications for the Student Alumni Board are accepted during spring semester. For more information about this and other Alumni related topics, call 801-863-8179.

Bookstore

- Located: SC 102
- Telephone: 801-863-8641
- Hours:
 - Monday - Thursday 7:30 a.m. - 6 p.m.
 - Friday 7:30 a.m. - 5 p.m.
 - (Fall and Spring semesters only)

- Monday, Friday 8 a.m. - 5 p.m.
- Tuesday, Wednesday 8 a.m. - 6 p.m.
- (Summer semester only)
- Closed Sunday and Campus Holidays

The bookstore is open each weekday to serve the students, faculty and staff of UVU. At the bookstore you will not only find your required text books for rent, purchase or e-book, but also everything else you will need for your college career: school supplies, computers, i-Pads, iPods, academically-priced software, general reading materials, reference books, candy and sundry items, and UVU apparel, insignia items, gift cards.

Campus Connection

- Located: SC 106f
- Telephone: 801-863-8797
- Hours:
 - Monday - Thursday 8 a.m. - 8 p.m.
 - Friday 8 a.m. - 5 p.m.
 - Saturday 9 a.m. - 2 p.m.
 - Holiday hours may vary

Campus Connection is the place to go to get your UVU OneCard/UVU Plus Card (Student ID) and information on all student activities sponsored by or held at the Utah Valley University Campus along with the following services:

UVU OneCard/UVU PlusCard

The card will allow discounted access to most student activities and athletic events. The card allows free access to library book checkout, PE Issue Room, and athletic facilities. It also offers discounted entrance into selected community events, activities, and dances. Student fees entitle each student to one UVU OneCard for the duration of his/her enrollment at UVU (minimum of 5 years). Students should save their cards even if they skip a semester or a year or two, because the card is automatically validated when registration is paid. Replacement cards (lost, stolen, broken or name changes) are \$15.

UVU PlusCard is everything the UVU OneCard is PLUS it becomes your UCCU Debit Card all in one. Just go to uvu.edu/campusconnection to learn more.

The UVU GreenBucks Account is a debit account made available for students to deposit funds at Campus Connection or online at onecard.uvu.edu (VISA, MasterCard, and Discover cards are accepted to put money on the UVU OneCard). With these funds on their card, students can make purchases on campus for food, books, postal services, and special event tickets. When the UV GreenBucks is used in Dining Services, students receive a 5% discount. There is also a meal plan available that gives 10% off on all meals from Dining Services for \$300. For more details, call Campus Connection 801-863-8797 or go to SC 106f.

UTA Transit Pass

Students are also eligible to receive a UTA Transit Pass for a fee. (Price may vary due to UTA rate increase.) Patrons must be registered for classes of the current semester AND have a UVU ID Card before purchase can be made at Campus Connection or **renewed** online through myUVU. Replacements cards will be charged the same activation fee.

Other Services

Tickets and SmithsTix for various Campus and community events; UTA Bus Passes; Faxing domestic and international; campus lost and found; general information. See uvu.edu/campusconnection for more up to date information

US Post Office

- Located: SC 104
- Telephone: 801-863-6067
- Hours:
 - Monday - Thursday 8 a.m. - 8 p.m.
 - Friday 8 a.m. - 5 p.m.
 - Saturday 9 a.m. - 2 p.m.
- Mail pick-up:
 - Monday - Friday 2:45 p.m.
 - Saturday 12:45 p.m.

The US Postal Service is also available across the hall from Campus Connection. Stamps (singles, books, and rolls), Packaging Products, Express, Priority, Media-Mail, Bound Printed Matter, Global Priority, Global Express, Global Air Mail, Registered, Certified, Delivery Confirmation, and so forth, are available. Cash, Check, Credit, Debit Cards and UV GreenBucks are accepted.

Campus Recreation & Wellness

- Located: SL 213
- Telephone: 801-863-5553

The Department of Campus Recreation & Wellness includes recreational portion of the Student Life & Wellness Center (SLWC), SLWC bowling alley/gaming center, The Project Climbing Wall, and Wellness Programs, Intramurals & Club Sports, Rodeo and Outdoor Adventure Center departments.

Introduction

Through our various services and programs, we offer a variety of recreational and health opportunities for UVU students and staff. Our mission is to enrich the quality of life for students, faculty and staff by providing a broad range of recreation, wellness, and student engagement opportunities that complement the academic experience. We actively promote the pursuit of a balanced, healthy lifestyle to our diverse university community.

Career Development Center

- Office: LC 409
- Telephone: 801-863-6364
- E-mail: careerdevcenter@uvu.edu
- Web: uvu.edu/cdc
- Hours:
 - Monday - Friday 8 a.m. - 5 p.m.

The Career Development Center consists of career services and the CareerPassport and National Student Exchange programs. As a center we enhance individual career success and employment potential by fostering community, national and global relationships. Our services engage students and alumni in exploring and preparing for professional pursuits with the express purpose of empowering them to achieve their unique life goals.

Our services include access to:

- Handshake at uvu.edu/cdc for students and employers (online job posting, job search, submitting resumes, scheduling interviews, etc.)
- Off-campus full-time, part-time, summer and temporary job openings and internships
- Counseling on career planning and preparation
- Training and online workshops on writing resumes, interviewing, networking, negotiating and more
- Labor market, salary and career employment information
- Career Lab walk in hours 9 a.m. - 4 p.m., Monday - Friday
- Job Search Strategies
- Interview Preparation/Mock Interviews
- Career & Internship Fairs
- Part-Time Job Fairs
- Local, national and international employers recruiting on campus
- Group and class presentations on career related topics
- Career resiliency
- Career options for different majors

CareerPassport Program

- Director: Sue Stephenson
- Office: LC 409Q
- Telephone: 801-863-6219
- E-mail: sue.stephenson@uvu.edu
- E-mail: careerpassport@uvu.edu
- Web: uvu.edu/careerpassport
-

CareerPassport is an engaged career preparation program through the Career Development Center with the goal of encouraging students to actively participate in career preparation early while working towards a degree at UVU. The program addresses the individual career preparation needs of students at any stage of their academic experience through participation in expanded career activities and events. The CareerPassport Program is a free, non-graded program available to all students on campus. All self-selected activities and assignments that are completed and submitted through Canvas are evaluated by a career professional providing current, relevant feedback and direction.

CareerPassport participants may earn the Professional Career Engagement distinction (PCE) by actively integrating and applying career preparation activities and experiences to their major coursework. The Professional Career Engagement distinction is awarded upon successful completion of PCE track requirements.

STEPS TO COMPLETE

- PCE Application
- PCE Graduation Application
- PCE Graduation Interview and Testimonial Video

PROFESSIONAL CAREERS ENGAGEMENT DISTINCTION

Core Requirements

- Informational Interview
- Job Shadow
- Career & Internship Fair
- Internship
- CareerPassport Lecture Series of Career "Hot Topics" Series
- Career Networking
- Career Development Retreat

30 Additional Activities (Dispersed among All Four Career Development Stages Listed Below)

- Self Discovery
- Career Exploration
- Career Preparation
- Career Readiness

Center for Global and Intercultural Engagement

- Office: WB 147
- Telephone: 801-863-8342
- E-mail: cgie@uvu.edu
- Web: uvu.edu/cgie

The Center for Global and Intercultural Engagement (CGIE) supports the University efforts to prepare globally competent citizens. To accomplish these objectives, CGIE collaborates closely with colleges, schools, and other units across campus to create a community of students, staff, and faculty that share multicultural and international knowledge, attitudes, experiences, and efforts. We are committed to fostering an inclusive atmosphere for all students and to preparing them for an increasingly complex, diverse, and globalized society. CGIE is comprised of four programs.

1. International & Multicultural Studies (IMS): These programs support and facilitate international study programs, study abroad, international internships, student exchanges, travel resources, global and multicultural faculty training, cultural excursions, and student workshops. The programs include the Global Spotlight Program, mentored research programs, and other engaged learning opportunities for students. IMS also is the primary provider of facilitation, training, and support for the Global/ Intercultural Graduation Requirement. This requirement enables all UVU students to gain critical exposure to issues related to cross-cultural appreciation and understanding. IMS is also committed to inclusive teaching practices and approaches that enhance the learning of students from a variety of backgrounds and cultures.
2. Multicultural Student Services (MSS): Our programs provide a full range of support services targeting historically underrepresented populations with an eye toward inclusion of all students across campus. The mission is to promote educational opportunities and intercultural enrichment for diverse students and the wider campus community. Our programs aim to nurture student achievement and develop relationships that support student success, academic growth, retention, and completion of educational programs. Services include general academic advising, registration and financial aid help, student leadership programs, multicultural club advisement and support, academic and social events, and initiative programs that provide specific resources for Latino, LGBT, Native American, and Pacific Islander student populations.
3. International Student Services (ISS): Our programs provide advisement and support on visa, employment, and academic issues for UVU's international student population. Students with questions regarding immigration, visa, or related issues may visit one of our advisors in LA 114. ISS activities including orientations each semester for all new international students, managing the federally mandated Student and Exchange Visitor Information System (SEVIS) to ensure that all international students at UVU are legally "in status," and providing a variety of services designed to promote the academic success of our international students.
4. International Affairs & Diplomacy (IAD): Our office advances UVU's presence and reach in the international community through cultural exchanges, diplomatic visits, economic development partnerships, and other related activities. Programs include the hosting and connecting international dignitaries including heads of state, ministers, ambassadors, business, educational, and religious leaders.

The Center for the Advancement of Leadership

- Director: Belinda S. Han, MA
- Office: LC 302
- Telephone: 801-863-6466
- E-mail: cal@uvu.edu

The LEAD Program

The Center for the Advancement of Leadership (CAL) provides a variety of leadership development opportunities for the Utah Valley University community. The LEAD Program serves as one of the most notable leadership opportunities within CAL. The LEAD Program allows students a customizable leadership development journey for UVU students. Whether students are majoring in physical therapy, business, engineering, law, emergency services, biology, aviation, or any other degree or program, the LEAD Program is designed for students who wish to advance their personal, interpersonal, organizational and/or civic leadership skills while pursuing their degrees and programs.

The LEAD Program focuses on four key aspects of personal development (Learn, Engage, Acquire, and Discover). Together, these four aspects ensure leadership growth concurrently in both the personal and professional arenas.

At the completion of the first year of the LEAD Program, students can earn a "Standard Certification in Leadership Development" on their transcripts.

At the completion of the second year of the LEAD Program, students can earn a "University Distinction in Leadership Development" on their transcripts.

Beyond this, community mentors are matched with students to help students grow and develop throughout their experience with the LEAD Program.

All students are invited to preview the program by visiting our website at uvu.edu/leadership, attending our monthly Master Mind meeting the first Monday of each month (SC 206), or visiting the CAL office in LC 302 (801-863-6466). Applications for the program typically open in late November and close in early February of each academic year (contact the office for specific dates).

Care about Childcare at Utah Valley University

- Coordinator: Joyce Hasting
- Office: EE 009
- Telephone: 801-863-8557
- Web: uvu.edu/cac

Care About Childcare at Utah Valley University is a resource and referral agency for parents, providers, caregivers and the community. Parents who are seeking child care in Utah, Juab, Summit or Wasatch counties may receive a free personalized list of available child care by calling the referral line at 801-863-8631, toll free 1-800-952-8220 or log onto the

Introduction

website at uvu.edu/cac. CAC at UVU provides technical assistance to students, parents and the community about child development and child care. CAC at UVU also teaches approved professional child care courses to child care providers and caregivers. The program also offers grants, program coaching and technical assistance to center and family based child care providers. All of their services are offered in both English and Spanish.

Dean of Students/AVP Student Life

- Alexis Palmer
- Office: SL 201
- Telephone: 801-863-8311

The Dean of Students is committed to providing a growth enhancing environment in which all Utah Valley University students learn and develop to their fullest potential. Student Life at Utah Valley University promotes the psychological, physical, intellectual, occupational, spiritual and ethical wellness of all students, engages students socially, encourages civic involvement, and provides opportunities for experiential learning, leadership, and wellness through collaboration with the campus and community.

Dining Services

- Office: SC 201
- Telephone: 801-863-8664

The Dining Services Department is operated by and under the direction of Auxiliary Services in the Sorensen Student Center. The mission of the department is centered to students and their dining enjoyment and benefit.

The Student Center has two Food Courts with options that are plentiful and a variety of branded retail food options that offer the perfect place to stop for a satisfying meal at an affordable price.

Food Court - First Floor

- **Costa Vida:** Fresh Mexican grill serving Burritos, Salads, Tacos, Desserts and more.
- **Subway:** Fresh Submarine Sandwiches.
- **Pizza Hut Express:** Pizza served hot out of the oven, Pasta, Salads and Desserts.
- **J Dawgs:** Gourmet Hot Dogs. All natural meat, a homemade sauce and locally milled buns.
- **Cupbop:** Korean BBQ
- **Fishbone Sushi:** A variety of Sushi.
- **Sodalicious:** Flavored Soda's.

Food Court - Second Floor

- **Chick-Fil-A:** Chicken Sandwiches, Strips, Wraps and many items on the Breakfast menu.
- **Panda Express:** From Orange Chicken to their health-minded Wok Smart selections.
- **Farr's Fresh & Incredible Edibles:** Breakfast, Sandwiches, Paninis, Salads, Grab 'n' Go options along with a variety of Farr's Fresh Ice Cream and Yogurts.

Both locations offer a relaxed and unique atmosphere for students, faculty and staff.

Other Food Service Locations on Campus are:

- **Mom Fulton's Café** is located in the Library and features Starbucks Coffee selections, gourmet Sandwiches, Soup and Grab-and-Go meal options.
- **Jamba Juice, Taco Bell and The Green Line Café** are located at the intersection of the PE Hallway and the Student Life and Wellness Building
- **Guru's Café** is located in the Classroom Building where you can enjoy a sit down meal of Pizza, Salads, Sandwiches, Soups, Wraps, Pasta's, Breakfast and more.
- **The Roll Up Café** is located in the Computer Science Building, 4th floor offering a variety of Sweet & Savory Crepes, along with Salads and Paninis.
- **The Trades Café** is located on the third floor of the Gunther Trades building and has what you need to fuel you for your day, including Drinks, Fresh Fruit, Salads and Pastries.

Please check Dining Services website at uvu.edu/dining for more exact operating hours of all locations and updated menus and meal options.

First-Year Experience (FYE)

- Office: LC 405
- Telephone: 801-863-4000
- E-mail: success@uvu.edu
- Web: uvu.edu/firstyear

UVU's First-Year Experience (FYE) program is designed to help new students make a smooth and successful transition to college life. Participation in the following FYE programs will help students build a foundation of success:

- Orientation
- Freshman Reading Program
- Freshman Convocation
- StartSmart
- UVCommit
- Freshman Year-End Celebration
- Learning Communities
- Personalized Academic Advisement

Fulton Library

- Telephone: 801-863-8265
- Fax: 801-863-7065
- Web: uvu.edu/library
- Hours:
- Fall/Spring
 - Monday - Friday 7 a.m. - midnight
 - Saturday 8 a.m. - 7 p.m.
 - Sunday 1 p.m. - 9 p.m.
- Summer
 - Monday - Friday 7 a.m. - 9 p.m.
 - Saturday 9 a.m. - 5 p.m.
 - Sunday 1 p.m. - 9 p.m.
- Director: Lesli Baker
- Office: FL 503e
- Telephone: 801-863-8286

The Fulton Library has friendly librarians and staff waiting to help! In-person and online research help is available to assist students and faculty with locating the information and resources they need. The Fulton Library houses hundreds of thousands of materials, including books, films, journals, newspapers, audio/visual equipment for checkout, and much more. UVU ID cards are accepted for checking out materials at all college and university libraries in the state. Interlibrary Loan service quickly gets materials not available at the Library from across the United States for free. The Fulton Library is a dynamic space that hosts two computer labs, a family study room, group study rooms, the Writing Center, a visual arts lab, specialized software, a deaf studies lab, the Assistive Technology Center, the Office of Teaching and Learning, the Center for Constitutional Studies, and an art gallery. It is also home to Mom Fulton's Café and the Bingham Gallery, which contains the Roots of Knowledge stained glass exhibit.

Housing and Residence Life

- Office: SL 214
- Telephone: 801-863-8659
- E-mail: housing@uvu.edu
- Web: uvu.edu/housing
- Hours:
- Monday - Friday 9 a.m. - 5 p.m.

The Department of Housing and Residence Life provides students with a variety of housing services: housing scholarships, searches, laws, dispute resolution, housing booklet and housing fair. Information concerning local housing options, availability and pricing is available on our website, in the Housing Office, or through email.

Utah Valley University does not own, manage, or approve any student housing on or off campus. The University works closely with local student housing to provide accurate and up-to-date information on all housing options listed within the local area, so that students can choose the most suitable housing while attending UVU.

Should disputes between a Landlord and a UVU Student Tenant arise, a free mediation service is available through the Office Student Conduct and Conflict Resolution located in SL 212b. To schedule an appointment for mediation services, please call 801-863-7237. The Office of Housing and Residence Life does not provide legal counsel regarding housing.

Intramural and Club Sports

- Manager: Dustin LaMont
- Coordinator: Alex gebers
- Office: SL 213
- Telephone: 801-863-5568
- E-mail: dustin.lamont@uvu.edu
- E-mail: agebers@uvu.edu

The Intramural Sports Program is one of the largest co-curricular activity programs that complement the formal academic curriculum. It offers extensive opportunities to currently enrolled Utah Valley University students, faculty, staff and their spouses/partners in a number of competitive and structured activities each year. Participation in the program is voluntary and determined by interest.

Participation can provide one with opportunities to have fun, learn new sports, meet people from other cultures, test one's physical ability as well as offer a break from routine. Team sports generally take on a league structure and a post-season tournament to determine champions. Special events range from one day to several day tournaments. In most events, skill levels and divisions are established to allow competition for men's, women's, co-ed and Mixed teams at various skill levels.

The Intramural Sports program strives to provide programming for all levels of ability and experience. Our aim is to serve the recreational needs of the majority of the student body and not just the athletic minority.

Club Sports bridge the gap between intramural and intercollegiate athletics by providing competition at specialized levels, participation in tournaments, and opportunities to practice. Although some clubs remain solely recreational, most are highly competitive.

UVU Club Sports offers a structured environment to practice and play the game students' love. Participation in Club Sports allows individuals to engage with the University in a unique way. Club Sports are managed and run by the participants themselves, including coach selection, travel, fundraising, scheduling, practices, and participant development. Club Sports are meant to enhance the individual learning experiences through involvement, commitment, and working in a team setting.

Introduction

A competitive spirit of fair play and good sportsmanship is encouraged in order to provide all with a wholesome recreational experience. Participants and staff are asked to conduct themselves in a manner consistent with, and in support of, those values set forth by Utah Valley University.

Learning Strategies Support

See Tutoring and Academic Skills Services (TASS) in [University College](#).

Lockers

- Office: FC 100 (Facilities Complex)
- 936 S. 400 W., Orem
- (Next to Parking Services)
- Telephone: 801-863-8130
- Hours:
- Monday - Friday 7 a.m. - 5 p.m.

Lockers are available for student use in the Gunther Technology Building and are rented through the Facilities/Physical Plant Office. Locker rentals are \$5 per semester or \$13 per year. This fee is non-refundable. Renewal of lockers needs to be completed before the end of the semester to avoid locker changes and clearance of contents. The renter is responsible for any damages to the locker(s).

Math Lab

See Tutoring and Academic Skills Services (TASS) in [University College](#).

National Student Exchange

- Office: LC 410p
- Telephone: 801-863-6750
- E-mail: sue.stephenson@uvu.edu

National Student Exchange (NSE) is a domestic "study away" experience that fits into university initiatives for globalization and diversity. NSE embodies the overall mission of Utah Valley University by providing meaningful Engagement Opportunities for its students. The National Student Exchange, which is a service within the Career Development Center, provides opportunities for undergraduates, to study for up to one calendar year at another NSE member college or university and pay in-state tuition.

With over 200 colleges and universities from which to choose, students can find a campus that is "custom" to individual degree plans, with just the right combination of courses, facilities, and environment to meet unique personal and academic needs and interests. Spending time at another campus will allow students to grow academically and personally. Students will develop a greater appreciation for the different regions, cultures, and people. NSE extends beyond the borders of the United States to include U.S. territories as well as Canadian provinces. Students participate in order to:

- Broaden personal and educational perspectives
- Explore and appreciate new cultures
- Widen university boundaries
- Take courses not offered at the home campus
- Learn from different professors
- Access courses with different perspectives
- Explore new areas of study
- Experience personal growth
- Live in a different geographic area
- Acquire life skills
- Investigate graduate or professional schools
- Look for future employment opportunities
- Become more mature, independent and resourceful
- Become more mature, independent and resourceful

NSE participants have found their exchanges culturally enriching, academically rewarding, and one of the most significant experiences of their undergraduate education. Since its founding in 1968, more than 100,000 students have had the opportunity to break out of their comfort zone, and experience life from a different point of view.

Students will need a 2.5 cumulative GPA and one-year of university work to join these students who have been placed in life-changing exchange situations which challenged their thinking, expanded their educational and personal experiences, and encouraged them to take healthy risks.

Ombuds

- Office: SL 212b
- Telephone: 801-863-7237

Within the UVU community misunderstandings and disagreements needing resolution occur. The UVU Ombuds is a mediator and resource who is familiar with campus policies, student's rights and responsibilities, and can help find useful options within these guidelines. In order to serve as a mediator, as opposed to an advocate, the Ombuds neutrally

and objectively listens to all problems and works with the parties involved to find a solution. The Ombuds may be used as a resource for help in a variety of difficult situations. The Ombuds can help with:

- University related or personal issues
- Interpersonal conflicts
- Sexual Harassment
- Academic complaints and conflicts
- Housing/Landlord disagreements
- Discrimination complaints
- Grading procedure disputes
- School policy and procedures
- Others

All services are offered free of charge.

Outdoor Adventure Center

- Office: SL 216
- Telephone: 801-863-7052
- Web: uvu.edu/oac
- Hours:
 - Monday - Friday 8:30 a.m. - 5 p.m.
 - (fall and spring semesters)
 - Saturdays 8:30 a.m. - noon during winter months
 - Monday - Friday 9 a.m. - 5 p.m.
 - (summer semester only)
 - Saturdays 9a.m. - 5 p.m. during summer
 -

The Outdoor Adventure Center provides students, staff, faculty and the community an opportunity to learn from the vast outdoor classroom. We offer participants a chance to experience nature while also learning how to protect and preserve the natural environment. Opportunities range from clinics, adventure outings, and afternoon activities. We also offer equipment rentals and retail items that will help get you outside! We collaborate with different academic departments in offering experiential education outside of the classroom, call us today if you are interested in planning an activity for your students. Come in today and let us help with your next adventure. For a list of rental prices visit www.uvu.edu/oac/rentals.

Parking and Transportation Services

- Located: 936 S. 400 W., Orem
- Telephone: 801-863-8188
- Hours:
 - Monday - Friday 7 a.m. - 5 p.m.

Parking permits are required to park anywhere on the UVU main campus and west campus. UVU uses license plate reader technology and assigns a digital permit to your vehicle license plate at the time of permit purchase. Parking permits are available in our office at 936 S. 400 W. or online through the link found at uvu.edu/parking - there is also information on the site regarding parking maps, regulations, and other information to assist you in parking on campus. We can also be contacted by phone at 801-863-8188 Monday through Friday 7 am to 5 pm.

Parking for People with Disabilities

Only those vehicles carrying distinctive (logo) license plates for people with disabilities or temporary/permanent permits obtained from the Utah State Division of Motor Vehicles at 150 E. Center in Provo plus a valid UVU handicapped parking permit shall be allowed to park in stalls for the disabled. If all disabled stalls are full in a given area, those displaying a disabled permit may park in the nearest available stall.

Student and Employee Parking

Students and employees operating vehicles on University properties must adhere to all state, local, and university traffic/parking regulations. To park on campus, students and employees must obtain a valid parking permit from Parking Services. Employees and Students will need to provide their vehicle information e.g. license plate number, make and model before a permit can be issued to them. Permits are not required to park in any employee or student lot after 5 p.m.

Visitor Parking

Visitors operating vehicles on University property must adhere to all state, local, and university traffic/parking regulations. There are three visitor pay lots on campus. The Lakeside Visitor Lot and Admissions Meter Lot are located on the south side of campus, and the Parking Garage is on the north side by the Student Life building. The cost to use the lot is posted at the lot, as well as on the Parking Services website. These lots are pay-by-space parking and each stall is numbered. Pay stations are located in convenient locations in these lots. Payment is required in these pay lots from 5 AM through 10 PM, seven days a week. Payment is required at the time you park at one of the pay stations. If you have any questions regarding parking on campus please contact the Parking Services Office at 801-863-8188.

Physical Education Services (Issue Room)

- PE Services Director: Sam Atoa
- Office: RL 119
- Telephone: 801-863-8567

Introduction

- Assistant Director: Ashley Iosefa
- Office: RL150 (Issue Room)
- Telephone: 801-863-8628
-

The Rebecca Lockhart building serves as the home for many Physical Education classes, Intercollegiate Women's Volleyball, and Men's Wrestling.

Facilities included are: men's/women's locker rooms, one main basketball floor, a single lane indoor track, one aerobic/dance area, a martial arts room, weight room, cardio machines, a motor learn lab, dance rooms, and various faculty/staff offices.

UVU PE Issue t-shirts are used for the Physical Education Facilities. You must have your UVU ID card or valid ID to check out the issue clothing. Lockers are available to rent each semester. For additional information and hours of operation, please refer to the PE Issue room (RL 150) or call 801-863-8628.

Printing Services

- **Printing**
 - Located: GT 533
 - Telephone: 801-863-8415
- **Student Center Copy Center**
 - Located: SC 101g
 - Telephone: 801-863-8355
- **Gunther Technology Copy Center**
 - Located: GT 516d
 - Telephone: 801-863-7093
- **Visual Arts Lab**
 - Located: LI 209
 - Telephone: 801-863-6853

Printing Services provides copying, offset printing, and graphic design services for the UVU community. The primary digital printing production center is located in the Gunther Technology Building room 516D. A smaller facility is located in the Student Center near the bookstore. Printing Services also operates the Visual Arts Lab located in the Fulton Library. This facility is open to the public but caters primarily to art students. The Visual Arts Lab provides many media and art-related services including digital mat board cutting, laminating, wide format printing, photo mounting, copying, and faxing. The lab also sells a variety of materials and supplies. In addition, lab employees can help students identify and resolve technical issues with their graphics files. Students have access to all of the Printing Services operations except for the offset print shop.

Prospective Student Services

- Located: LC 408
- Telephone: 801-863-8811
- Fax: 801-863-7305
- Web: uvu.edu/futurestudents

The office of Prospective Student Services (PSS) provides future students with the necessary tools, knowledge, and assistance needed to become a student at UVU. Our office coordinates recruitment initiatives and events designed to provide support for new and transfer students. In addition to helping prospective students, PSS establishes positive relationships with high school and junior college counselors and administrators. PSS works closely with the Enrollment Marketing department, coordinating student data management and prospective student marketing publications.

Our office gives campus tours and organizes high school and transfer events. If you would like to schedule a tour, attend an event, or receive additional information about UVU please call 801-863-8811 or visit our website, uvu.edu/futurestudents.

- **Provo adult education**
 - Office: 636 N. Independence Ave., Provo
 - Telephone: 801-374-4840
 - Fax: 801-374-4816

Provo Adult Education offers services to all UVU students who begin their college studies before they have earned a high school diploma. The purpose of PAE is to help students convert college credits into credits that apply toward high school diplomas or prepare to take the GED for the Utah High School Completion Diploma. Any UVU student can participate regardless of age or school district boundaries. Services at PAE include counseling for high school completion, high school level classes, GED testing information and preparation, and skill-building classes.

Sorensen Student Center

- Office: SC 105
- Telephone: 801-863-8612

Located in the heart of the Orem Campus, the Wilson W. Sorensen Student Center represents the center for campus life. The Center provides students, faculty, staff, and guests a setting for informal associations, special events, banquet and workshop facilities, social and cultural activities, and the everyday amenities such as food, books, and supplies. Services and activities provided by the Student Center include the following:

- **Bookstore**
- Located: SC 102
- Telephone: 801-863-8641

- **Campus Connection** (UVID and proximity card, information, and box office services)
- Located: SC 106
- Telephone: 801-863-8797

- **Copy Center**
- Located: SC 102t
- Telephone: 801-863-8355

- **Dining & Catering Services**
- Located: SC 201
- Telephone: 801-863-8664

- **Food Court**
- Located: SC 111

- **Office of Student Affairs**
- Located: SC 109
- Telephone: 801-863-6158

- **Ragan Theater** (400 seat facility for multi-purpose event and program functions)
- Located: SC 216
- Telephone: 801-863-8612

- **Scoops Ice Cream Shop**
- Located: SC 103f

- **Student Center Administration & Scheduling**
- Located: SC 105
- Telephone: 801-863-8612

- **Student Health Services** (medical services, mental health therapy)
- Located: SC 221
- Telephone: 801-863-8876

- **U.S. Postal Services**
- Located: SC 104
- Telephone: 801-863-6067

- **Utah Community Credit Union**
- Located: SC 101j
- Telephone: 801-223-7595

- **Volunteer & Service Learning Center**
- Located: SC 105
- Telephone: 801-863-8786

- **Conference Room Facilities**
- Grande Ballroom: SC 106a
- The Commons: SC 106
- Centre Stage: SC 108
- SC 206a, SC 206b, SC 206c,
- SC 206g, SC 206h, SC 213a,
- SC 213b, SC 213c, SC 214

Student Computing

- Office: LA 003V
- Telephone: 801-863-5852
- Web: uvu.edu/studentcomputing

Student Computing has been established to provide computing resources and technical support services that enhance the educational experience of the students of UVU. These services include: The Open Student Computer Labs, Campus Kiosks, student account management, print audit, myUVU portal.

The Open Student Computer Labs are available to all currently registered UVU students on a first-come, first-serve basis. No charge is required for the use of the computers. Lab Assistants are available to provide support and to help keep the equipment running. These labs contain 254 computers and have Internet access and E-mail as well as popular application software to assist students with their class work. There is also tables set up for students to bring their own personal device to charge as needed and get assistance from the Lab Assistants.

- **Info Commons Lab**

Introduction

- Located: FL 1st Floor
- Telephone: 801-863-6932
- Hours:
 - Monday - Friday 7 a.m. - midnight
 - Saturday 8 a.m. - 7 p.m.
 - Sunday 1 p.m. - 9 p.m.
- Check with lab assistant for holiday and summer hours

The "D.L.C." lab is located on the bottom floor of the Fulton Library. With 124 workstations, this is the largest open lab on campus.

- **Campus View Lab**
- Located: FL 2nd floor
- Telephone: 801-863-5634
- Hours:
 - Monday - Friday 7 a.m. - midnight
 - Saturday 8 a.m. - 7 p.m.
 - Sunday 1 p.m. - 9 p.m.
- Check with lab assistant for holiday and summer hours

The "Campus View" lab is located on the second floor of the Fulton Library overlooking the café and study area.

- **Computer Loft**
- Located: SC 215
- Telephone: 801-863-6081
- Hours:
 - Monday - Friday 7 a.m. - 11 p.m.
 - Saturday 8 a.m. - 5 p.m.
 - Closed Sunday
- Check with lab assistant for holiday and summer hours

The "Computer Loft" lab is located upstairs from the bookstore and across from the Ragan Theater

- **Fishbowl Lab**
- Located: SC 116
- Telephone: 801-863-8390
- Hours:
 - Monday - Friday 8 a.m. - 6 p.m.
- Check with lab assistant for holiday and summer hours

The "Fishbowl" is located at the junction of the Student Center, Losee Center and Woodbury Business building.

- **Wasatch**
- Located: WC 206 (Heber)
- Telephone: 801-863-6628
- Hours:
 - Monday - Thursday 6 a.m. - 9 p.m.
 - Friday 7 a.m. - 7 p.m.
 - Saturday 8 a.m. - 5 p.m.
- **West Campus Lab**
- Located: NG 107
- Telephone: 801-863-7147
- Hours:
 - Monday - Thursday 8 a.m. - 8p.m.
 - Friday 8 a.m. - 4:30 p.m.
- Check with lab assistant for holiday and summer hours

Student Computing has also put in place Open lab Computers in the hallways throughout campus, with printing capabilities.

myUVU provides access to class registration, student information, Canvas and many other online services. To use this system you must be accepted for admission and have a PIN number that is assigned at the time you were admitted.

Student Government

- **Utah Valley University Student Association (UVUSA)**
- Office: SL 122
- Telephone: 801-863-8652

UVU Student Government offers a variety of elected and appointed offices through which students influence and enhance the social and academic culture of the University. All students are members of the Utah Valley University Student Association (UVUSA) and are encouraged to apply for committee positions within the Student Government at any time during the year. Elections to fill officer positions in the Executive Council are held each February/March, while appointed Student Council positions are filled in March/April with any vacancies filled at the beginning of each semester.

Information on involvement opportunities in Student Government and UVUSA can be obtained from the Student Government Office (SL 122) or by visiting the website uvu.edu/uvusa.

Student Health Services

- Office: SC 221
- Telephone: 801-863-8876

Student Health Services is designed to assist students with a variety of health issues. Our purpose is to provide students with opportunities to improve their health through basic medical care, psychological services, suicide prevention and awareness, and learning disability assessment. We offer life enhancing services that increase the safety, productivity and life experience of the individual and the campus. Through our services we enhance the personal development and lifelong opportunities of UVU students.

Therapy Services

Personal Counseling, Emotional Support, Learning Disability Testing and Referral

Student Health Services offers short-term counseling to assist students through stressful and crisis situations affecting their performance in school and personal relationships. We provide assessment and treatment for a variety of mental health concerns such as anxiety, depression, eating disorders, trauma, grief, substance abuse and relationship issues.

The therapists are experienced professionals who offer support in an atmosphere of understanding and confidentiality. Programs offer individual assessment, individual, couples and group counseling and referral to campus and community resources. To set an appointment with a psychological professional, please contact us at 801-863-8876.

Medical Services

Student health is promoted through a complete offering of medical and psychiatric services. We are able to write prescriptions, do lab work, medication management, physical exams, sutures and treat many other medical conditions. We treat a variety of acute and chronic illnesses and injuries. We are staffed by medical doctors, nurse practitioners and medical assistants.

Students currently enrolled at UVU or any of its satellite campus locations are eligible for medical care on the Orem Campus. To set an appointment with a medical professional, please contact us at 801-863-8876.

Suicide Prevention

For staff or classroom training please contact us at 801-863-8876. Crisis counseling is available at Student Health Services. If you are currently in a suicide crisis please notify the front desk for priority scheduling. In the case of an emergency or outside of our business hours, please call 911 or 801-863-5555.

Student Involvement

- Director: Grant Flygare
- Office: LC 205
- Telephone: 801-863-6227
- Web: uvu.edu/studentinvolvement

The Office of Student Involvement builds and facilitates action learning activities and expeditions for student centered learning (out of the classroom, hands-on, experience-centered learning). OSI works collaboratively with students, faculty and professional community partners to bring about a full and exciting student life experience. OSI is engaged learning: it is Student LIFE!

Students may join in student life experiences through creating or joining an Action Learning Community, developing student leadership skills by becoming a Action Learning Leader, or participating in numerous hosted and sponsored activities in the Student Engaged Learning ZONE in the UVU Sorensen Student Center. Faculty are invited to apply for Action Learning Fellowships where they can collaborate with the Office of Student Involvement to create action learning expeditions and receive assistance from an Action Learning Leader as they create engaging expeditions and create professional relationships with community partners.

Details on these opportunities for engaged learning may be found by contacting the Office of Student Involvement.

Student Media & Publications

- Office: SL 214
- Telephone: 801-863-6498

Student Media and Publications is UVU's home of The UVU Review, the independent student newspaper. Students interested in producing news, writing, photography, graphic design, advertising sales, video broadcast content, web page content and design should come for practical experience and learning. These nationally award winning student media are produced year around. If you're interested in receiving hands on experience producing media publications visit us in SL 214. Call Media Coordinator 801-863-6498 for additional information.

Student Success/UV Mentor Program

See [University College](#).

Testing Services

Office: Wolverine Service Center–North Entrance

Introduction

Testing Services assists both students and staff. It is divided into three branches: the Assessment Center, the Classroom Testing Center, and the Proctored Exam Center.

- **Assessment Center**
- Located: WS 101
- Telephone: 801-863-8269

The primary responsibility of the Assessment Center is to assist all new students in developing a first-year educational plan. In addition to orientation and advisement, all students must meet the University's assessment requirements. This information is used to place students into appropriate Math and English courses, which will in turn, help to ensure student success. Testing sessions for new students are conducted throughout the day, no appointment necessary, but check our website for details at uvu.edu/testingervices, as our hours do change at different times during the year.

New students must meet one of following assessment requirements:

- ACT/SAT Scores
 - English: Not older than 5 years.
 - Math: Not older than 2 years.
- New Student Assessment
 - Required for UVU students for assessment purposes. Administered in the Assessment Center. There are 3 sections: reading, writing, and math. For more details and information, call the Testing Services department at 801-863-8269 or visit our web pages: uvu.edu/testingervices. Fees are charged for assessments.
- Transfer Credit
 - Completed English Composition and Algebra at another college/university, with a C or higher (verified by official college transcripts mailed directly from your previous institution to UVU Admissions).
 - Another function of Testing Services is to administer screening instruments, standardized tests, and other assessment instruments required by University programs and departments. Some of these include the GED, CLEP, SAT, ACT, EMT and POST tests. Pre-enrollment English proficiency assessment for international students is also a service provided in Testing Services. The department is an established site for residual ACT testing. Certification testing for different programs offered by UVU and the surrounding community is also available. Students can obtain information on tests in the office and hours of operation by calling 801-863-8269 or by visiting the web page at: uvu.edu/testingervices.
- **Classroom Testing Center**
- Located: WS 112
- Telephone: 801-863-7461

The Classroom Testing Center (CTC) is located in the Wolverine Service Center (WS 112). The CTC provides testing services enabling students to take participating instructors' exams in the center on a flexible schedule. The CTC is generally open six days a week Monday - Saturday. Students can obtain test schedules and scores by logging into chitester.uvu.edu and use UV Link user name and password to log in. Highlight the exam name and click on View test score(s).

- **Proctored Exam Center (PEC)**
- Located: WS 111
- Telephone: 801-863-8544

The Proctored Exam Center (PEC) provides testing accommodations to UVU students with disabilities as well as services for distance education students who need to have a test proctored from another university or college. Students with disabilities requiring assistance MUST obtain a letter from the Accessibility Services Department before being eligible to use the PEC. Scheduling an individual appointment for testing is required for both parties. For scheduling information and further assistance, call 801-863-8544.

Trio College Prep Programs

Educational Talent Search & Upward Bound

Talent Search

- Director: Michael M. Campbell
- Telephone: 801-863-8569
- E-mail: campbemi@uvu.edu
- Coordinator: Rebecca Ayala
- Telephone: 801-863-7216
- Administrative Support: Kasha Farmer
- Telephone: 801-863-7414

Talent Search serves young people in grades six through twelve. In addition to counseling, participants receive information about college admissions requirements, scholarships and various student financial aid programs. This early intervention program helps young people to better understand their educational opportunities and options. UVU services Orem, Provo, Wasatch, South Summit, Duchesne, and Uintah.

Upward Bound

- Director: Michael M. Campbell
- Telephone: 801-863-8569
- E-mail: campbemi@uvu.edu

- Coordinator: Alex Atwood
- Telephone: 801-863-8570

- Administrative Support: Kasha Farmer
- Telephone: 801-863-7216

Upward Bound helps young people and adults prepare for higher education. Participants receive instruction in literature, composition, mathematics and science on college campuses after school, on Saturdays and during the summer. UVU services students from Orem, Provo, Wasatch, Duchesne and Uintah.

TRIO Student Support Services (SSS)

- Office: LA 012
- Telephone: 801-863-8541

TRIO Student Support Services (SSS) is a federally funded program. The purpose of TRIO SSS is to:

- Increase the retention and graduation rates of eligible students
- Foster an institutional climate supportive of the success of low-income and first generation college students and individuals with disabilities through a variety of services such as:
 - needs assessment testing
 - individual education planning
 - academic, career, and transfer counseling
 - tutoring
 - cultural events
 - SLSS 1100 Stress Management--Hardiness and SLSS 1195 Speed Reading
 - workshops and guest presentations

To be eligible to receive TRiO SSS services, a student must meet all of the following requirements:

- Is a citizen or national of the U.S. or meets the residency requirement for Federal student financial assistance
- Is enrolled at UVU or accepted for enrollment in the next academic semester
- Has a need for academic support, as determined by UVU, in order to successfully pursue a post-secondary educational program

Meets at least one of the following criteria:

- Low income
- First generation college student
- Has a disability which inhibits the learning process

Eligible students are selected into UVU's TRiO SSS program based upon their academic need and upon their ability to benefit from the services offered. Space is limited, so students are advised to apply early.

Turning Point (Community Education)

- Director: TBA
- Office: HP 116
- Telephone: 801-863-7580
- Web: uvu.edu/turningpoint

The Turning Point Program is a community and university resource, which provides access to numerous services to help individuals' complete educational goals, build personal relationships, master communication skills, and explore varied career options in the workforce. Dedicated to quality support service, this program increases the emotional, social, and economic well-being of all participants.

Class offerings include:

- Managing Life Transitions I: Personal & Professional Development
- Managing Life Transitions II: Relationships
- Anger Management
- Back to School
- Marriage and Pre-Marriage Workshops

Additional Turning Point Services:

Professional Clothing Source, GED referrals, mentoring, referrals to community and campus resources, and reduced tuition for low-income individuals who qualify.

Tutoring & Academic Skills Services

See [University College](#).

UCCU Center

Introduction

- Office: EC 012
- Telephone: 801-863-8768

The UCCU Center is a multipurpose facility serving the University and the community. The UCCU Center hosts a variety of local and special performances, sports events, educational seminars, concerts, conventions, trade shows, lectures and other community gatherings.

Some events that are hosted here include basketball games, circus performances, business trade shows and expos as well as various types of concerts. The events center is an excellent choice for hosting any kind of event.

Athletics

The mission of UVU Athletics is to provide a wide range of athletic programs that are highly competitive and nationally recognized on a consistent basis. The department seeks to provide the individual athlete with the opportunity to improve athletic skills and abilities while obtaining an exceptional quality education with the best facilities and coaching staff available, to benefit the athlete in future academic, athletic, and vocational endeavors. Each student-athlete is required to be in good standing academically and making progress toward graduation with a bachelor degree according to NCAA requirements.

The Wolverines compete at the NCAA Division I level and currently are members of the Western Athletic Conference. UVU offers the following NCAA Division I sports: Baseball, Softball, Men's and Women's Basketball, Men's and Women's Cross Country, Men's and Women's Golf, Men's and Women's Indoor and Outdoor Track and Field, Men's and Women's Soccer, and Women's Volleyball.

For more specific information regarding any sport or team, please call our Athletic Department Office at 801-863-8998, or look us up on the internet at: wolverinegreen.com.

Cheerleaders & "THE WOLVERINE"

The UVU Cheerleaders are a large part of promoting fan involvement and enthusiasm at UVU athletic events. The squad consists of highly talented young men and women who perform stunting and tumbling routines.

The WOLVERINE is the school mascot who is also involved in crowd interaction and may be seen hanging from the rafters or dropping through the middle of the basketball hoop to excite fans.

Tryouts for these positions are held each spring, and specific information about tryouts may be obtained by calling Student Leadership and Activities at 801-863-8150.

Dance Team

The UVU Dance Team is comprised of 12-16 skilled dancers who perform regularly at UVU Athletic Events. The Team employs a wide range of styles and utilizes Jazz, Funk, and Lyrical Dance numbers, all choreographed by the team members and director. Tryouts are held each spring. For more information call Student Leadership and Activities at 801-863-8150.

UVU Clubs

- Office: SL 122
- Telephone: 801-863-8820

UVU Clubs connects students to UVU in a unique way that reflects each student's individual interests and academic desires.

The UVUSA Clubs Branch, also known as the ICC Executive Council, works with 100+ active clubs by facilitating club success on campus. Many clubs are very active on campus and have received local, state, and national recognitions.

By getting involved in a club, students have the opportunity to increase leadership, citizenship, and service skills that enhance UVU and the community. Students meet new people, develop skill sets, and most of all, have fun. For information on existing clubs and/or procedures for chartering a new club, look on the web at uvu.edu/clubs, or contact the UVU Clubs Office in SL 122.

Veteran Success Center

- Office: WB 100a
- Telephone: 801-863-8212
- E-mail: veterans@uvu.edu
- Web: uvu.edu/veterans

Veterans eligible for VA Education Benefits may obtain assistance at the Veteran Success Center located in the Woodbury Business Building. Veterans not receiving VA educational benefits are also encouraged to send their Military Transcripts or JST transcripts to the transcript office to begin the evaluation process.

Guideline for Enrollment and Progress

According to VA standards of progress, educational benefits will be paid for courses required for graduation in the student's declared educational objective. Eligible persons will be required to maintain a 2.0 cumulative and semester GPA or higher and to actively and consistently pursue their declared educational objective. To receive Veterans Educational Benefits, students are required to attend class. Benefits will be terminated for non-attendance. This may cause an over-payment to the student. Some veterans receiving VA educational benefits must verify their attendance to receive their benefits. Please check with the Veteran Success Center for current procedures.

Veterans and dependents receiving grades of "UW" (unofficial withdrawal) or "W" (withdrawal) will have to reimburse the VA for any difference in pay, retroactive up to the beginning of the semester, unless they can report mitigating circumstances to the Department of Veterans Affairs. Benefits will not be paid for a course that is audited (AU).

New Veterans

New students applying for VA educational benefits may be requested to submit to the UVU Veterans' Service Coordinator either original or certified copies of the following documents: (1) DD Form 214 Member 4 or Service 2 copy (students may be eligible for a minimum of four semester hours of transfer credit), (2) DD-2384 (Notice of Basic Eligibility), (3) VA claim (c) number, if applicable, and (4) Confirmation of Vets.Gov application, (5) Certificate of Eligibility. This information is needed as soon as possible to ensure timely and accurate processing of benefits. UVU forms can be found online at uvu.edu/veterans. Official transcripts from all previously attended colleges or universities are required. The VA will not pay for any course the student has previously taken and successfully completed.

Continuing & Returning Veterans

All continuing and returning veterans must submit to UVU Veterans' Service Office promptly after registering for the semester a Veterans' Class Schedule Form that can be found online. This form must be submitted each semester to indicate that the student requests to receive educational benefits for that semester. Please be aware that adding and dropping classes may cause a debt with the Department of Veterans Affairs.

Volunteer & Service-Learning Center

- Office: SC 105
- Telephone: 801-863-8786
- E-mail: volunteer@uvu.edu
- Web: uvu.edu/volunteer

Welcome to the Volunteer & Service-Learning Center! We help students be the change they want to see in the world by volunteering, leading others, and building awareness about social issues in our community. We connect students to the community in six pathways: direct service, community engaged learning and research, social entrepreneurship, policy and governance, community organizing and activism, and philanthropy. Come join the Service Council, go on an Alternative Spring Break, be a Service Scholar, or take a service-learning class! For more information on all the ways you can get involved, visit uvu.edu/volunteer.

Wee Care Center

- Front Telephone: 801-863-7266
- Web Address: uvu.edu/weecare/

- Director: Todd Harper
- Location: WE 102
- Telephone: 801-863-7267

- Manager: Mary Ellen Larsen
- Location: WE 101
- Telephone: 801-863-7264

The Wee Care Center is designed to meet the childcare needs of student parents of UVU. First priority is given to single parents who are eligible for Pell Grants. The Wee Care Center also accepts married student parents who are also eligible for Pell Grants. Quality care is provided to children ages six weeks to twelve years. All services are based on a sliding scale.

Women's Success Center

- Senior Director: Tara Ivie
- Office: LC 305a
- Telephone: 801-863-3020

- Assistant Director: Jolene Merica
- Office: LC 304a
- Telephone: 801-863-5723

- Program Coordinator - Success Coaching: Peggy Pasin
- Office: LC 303b
- Telephone: 801-863-8080

- Program Coordinator - Women of UVU/Women Lead: Rachel Saunders
- Office: LC 101
- Telephone: 801-863-8498

- Administrative Assistant: Deanna Pitts
- Office: LC 303
- Telephone: 801-863-3010

The mission of the Women's Success Center is to recruit, retain, and graduate female students. Graduating with a degree improves the lives of women, the lives of their families, increases financial stability, and positively impacts society.

Writing Center

See Tutoring and Academic Skills Services (TASS) in [University College](#).

Introduction

Other Important Student Information

Student Right to Know

Utah Valley University hosts information regarding the Student Right-to-Know and Campus Security Act of 1991 on the HEA Student Consumer Information website. The Student Right-to-Know Act of 1991 requires all colleges and universities participating in Federal Student Aid Programs to disclose campus security policies, crime statistics, and information on students receiving athletically-related student aid, graduation rates, and other basic information about the University. To access a copy of the current Campus Security Report please visit www.uvu.edu/police.

Alcohol, Tobacco & Drugs

Utah Valley University, historically and at present, seeks to encourage and sustain an academic environment that promotes the health, safety, and welfare of all members of its community. In keeping with these objectives, alcoholic beverages, unlawful drugs, or other illegal substances shall not be consumed, used, carried, sold, or unlawfully manufactured on any property or in any building owned, leased, or rented by UVU, or at any activity sponsored by the University. (UVU Policy 157)

Any individual known to be in violation will be subject to University disciplinary action and to substantial legal sanctions pursuant to Local, County, State and Federal laws.

Smoking is prohibited in all University buildings and concourses. (UVU Policy 158)

All students can access a copy of the University Drug Policy online each semester at uvu.edu/studentconduct/students/drugalco.html. It explains the policy and University sanctions that may follow as a result of inappropriate drug and or alcohol use and the known health risks associated with inappropriate use.

Confidentiality of Records Policy

Utah Valley University is concerned for the confidentiality of student academic records, and a reasonable balance between the obligation of the institution for the instruction and welfare of the student and its responsibility to society. The University will make every effort to maintain student academic records in confidence by keeping information from individuals who are not authorized to receive it or who might use it for illegitimate purposes. The policy also reflects the efforts of the University to comply with the provisions of the Family Educational Rights and Privacy Act of 1974.

Upon presentation of appropriate identification and under circumstances which preclude alteration or mutilation of records, students will be able to inspect all records relating to themselves which are not considered by the University to be private records of University Personnel. A student is entitled to an explanation of any recorded data and may initiate action leading to a hearing, if necessary, to correct or expunge information he or she considers inaccurate or misleading.

Faculty and administrative officers who have a legitimate need to use student records will be allowed access to such records, as needed without prior permission from the student. A request from an educational institution to which the student has applied for admission, or from an institution or agency, from which the student is seeking financial assistance will be granted without written permission of the student. Similarly, data will be furnished to university accrediting bodies and governmental officials without written permission of the student.

No student information other than directory information will be given to any third party (except those mentioned above) without written consent of the student, and then only those records accessible to the student. The term party is construed to include parents, employers, government agencies, or any other people or organizations. Parents or guardians may have access to grade reports of a student's activity if the parents establish to the satisfaction of the University that they are providing one-half or more of the student's support. Court orders and subpoenas for records will be referred to and acted upon according to the directions of the Registrar. The University will make a reasonable effort to notify the student prior to release of information in response to subpoenas or court orders prior to actual submission of the material.

Directory information will be released to news media and to others upon request.

Directory information is defined as follows:

- Name of student
- Telephone number of student
- Hometown city and state of student
- Verification of current enrollment
- Dates of enrollment
- Degrees conferred, dates, major field of concentration and honors received

Students may request, at any time, through One Stop, the Admissions Office, and the Registrar's Office of the University, that Directory information be withheld by submitting a Request to Prevent Disclosure of Directory Information form.

Civil Rights

Utah Valley University does not discriminate in recruitment or admission of students on the basis of race, color, religion, age, sex, national origin, or other legally impermissible factors.

Policy

Students who believe that they have been discriminated against or harassed should contact the Director of Student Conduct & Conflict Resolution, SL 201.

Note: Employees or students bringing a grievance against an employee who believe that they have been discriminated against or harassed should contact the Director of Human Resources Services or University Equity Officer.

Students should also consult the Student's Rights and Responsibilities Code, which is printed in this catalog. See Student Rights and Responsibilities Section.

Procedure

- Purpose

The primary purpose of this procedure is to provide a remedy through which to seek redress for alleged acts of discrimination or harassment on the basis of race, color, religion, age, sex, national origin, pregnancy-related condition, disability, or veteran status. This grievance procedure is not applicable for situations for which other appeal and adjudication procedures are provided in State law or in which the University is without authority to act.

- Stages of Redress
 - a. Students grieving against another student or an employee who is grieving against a student must present the grievance in written form to the SCCR within 14 days (two calendar weeks) of the violation.
 - b. If not satisfied with the response the grievant may appeal within 14 days (two calendar weeks) of receipt of the response to the Dean of Students.
- Hearing and Decisions

At each of the levels noted above, the grievant shall be given the opportunity to be present and to be heard. Due process shall be accorded to all parties involved in the grievance, such as written notice of hearing dates and charge, right to counsel, right to present witnesses, and to present written statements. However, formal rules of evidence and trial procedure required in a court of law will not be applicable to such hearings. Decisions by the Campus Appeals Board shall be by a majority of the members present at the meeting. If an appeal is sent to the President, it must be accompanied by all documentation related to the prior hearings. The President's decision is final.
- Withdrawal

A grievance may be withdrawn by the grievant at any level without prejudice or record.
- Reprisal

No reprisal of any kind shall be taken by or against any party or legitimate participant in the grievance procedure by reason of such participation.
- Confidentiality

Appropriate confidentiality will be observed in all grievance procedures.
- Informal Resolution of Grievance

Nothing contained herein shall be construed so as to limit in any way the ability of the grievant and the University to resolve any grievance, mutually and informally.

Peaceful Assembly

Policy

Free expression and peaceful assembly are rights guaranteed by the Constitution, subject to time, place and manner regulations. The University acknowledges this right for its students to assemble and express their views peacefully. However, to protect the health and safety of both participants and bystanders, peaceful assembly procedures follow.

Preparation Strategies

- Plan your peaceful assemblies through the Dean of Students Office
- Reserve an appropriate location from the list below
- Schedule appropriate amplification, if necessary
- Contact University Police for traffic and crowd control, if necessary
- Post fliers and/or cardboard signs according to the University Signage Policy
- Pay rental charges, if required
- Commit to obey local, state and federal laws and University policies
- Agree not to disrupt the educational process of the University

Prohibitions

- Interference with the rights of others. Examples are harassment, intimidation and discrimination
- Disruption of normal functions of the University
- Damage to University property
- Endangerment of the health or safety of self or others
- Use of classrooms during academic hours
- Refusal to vacate the premises upon official request by a University administrator or Law Enforcement personnel
- Use of objects that might injure participants or bystanders; examples are wires, ropes, sticks and chains

Penalties

Prohibited acts are grounds for suspension or dismissal. Utah law provides that a student may be barred from campus for up to 14 days following an incident where the student violates University policy or state law. Refusal to vacate premises upon official request warrants immediate temporary suspension and arrest under the law.

Locations Appropriate For Peaceful Assembly

Locations are subject to availability; some locations may not be available at all times due to previously scheduled engagements.

Large assemblies (more than 50 people): Sorensen Student Center: Courtyard Lawn, North Parking Lot, Grand Ballroom, Theater, Centre Stage or meeting rooms; Athletic fields/ Lawn areas; Events Center: Arena, or Presidential Level.

Small assemblies (fewer than 50 people): Student Lounges or Student Center Meeting Rooms.

Resources

Reservations:

- Student Life & Wellness and Sorensen Student Center Scheduling Office, SC 103, 801-863-8612
- Events Center Scheduling, EC Concourse, 801-863-8767
- All other Campus Scheduling, Planning Center, 801-863-8883

Amplification for the Student Life & Wellness, Sorensen Student Center and outdoor areas can occur between 11 a.m. and 1 p.m., Monday through Friday. Saturday hours are flexible. Adequate and effective amplification will be provided within limits necessary to protect the neighboring community. Amplification for small peaceful assembly sites is rarely needed. Contact: Media Services, LC 300, 801-863-8888 or Sorensen Student Center, SC 103, 801-863-8612.

Introduction

Utah Safety Law

In 1965 the Utah State Legislature passed a law requiring every student, teacher, and visitor in any public or private school to wear industrial quality eye protection devices while participating in or observing the following: industrial educational activities involving hot or molten metals; operation of machinery or equipment that may throw particles of foreign matter into the eyes; heating, treating, tempering, or kiln firing of industrial materials; chemistry or physics laboratories when using caustic, explosive, or hot chemicals, liquids, or solids.

Tuition & Fees

- **Bursar's Office/UVU Cashier**
- Located: BA 108
- Telephone: 801-863-7200
- Fax: 801-863-8787
- E-mail: bursar@uvu.edu
- Hours:
 - Monday, Thursday, Friday 8 a.m. - 5 p.m.
 - Tuesday, Wednesday 8 a.m. - 6 p.m.

Tuition & Fees Policy

Tuition and student fees are established by the Utah State Board of Regents. University Policy regarding payment of tuition and fees states that all tuition and fees assessed at the time of registration are due and payable. This policy applies to all registration periods. Tuition and other charges are subject to change without notice. Please check current policies, procedures, tuition and fee tables, payment deadlines, and other important information at uvu.edu/cashier.

Early registration not covered by Financial Aid or paid in full by the published payment deadline may be purged for non-payment. After the published deadline, Utah Valley University will not drop courses for non-payment or non-attendance. Students who change their mind are responsible to drop their own classes or file a [Leave of Absence](#). Filing a Leave of Absence does not absolve a student of any financial obligation to the University for tuition or other charges owing or repayment of a financial aid disbursement. Students must drop or withdraw by the published 100% Refund Date or they will be responsible to pay the total tuition and fees owed. For exact refund and drop deadlines, please refer to the [Student Timetable](#) at uvu.edu/schedule.

Students who default on all or any portion of their tuition and fees will be suspended from further registration and records activity at UVU until their accounts are paid in full. The registration and records activity suspension will be carried forward to perpetuity until all past-due tuition and fees are paid in full.

Past due tuition accounts may be reported to a Nationwide Credit Reporting Agency, and/or turned over to an outside collection agency for collection.

Tuition Surcharge Policy

Students are encouraged to avoid accumulating credit hours beyond those needed to successfully complete their identified program of study. A student may be charged the excess credit hour surcharge for credit hours in excess of 125% of a student's program of study. The surcharge amount for resident students is double the current year's resident tuition rates for the number of credit hours taken. Non-resident students will continue to pay non-resident tuition.

For further information regarding this policy, please contact your advisor or the Graduation/Transfer Services Office.

Dropping/Withdrawing from Courses

When students enroll in a course, they are reserving a seat in the class. If a student decides not to take a class, it is the responsibility of the student to drop the course before the 100% Refund Deadline. Dropping the class before this deadline removes the charges from the student's account and allows other students to register. Charges for classes dropped after the 100% Refund Period deadlines will remain owing and will not be credited back to the student's account balance.

Student Financial Responsibility

Before students can register for classes they must review and agree to the terms and conditions outlined in the Student Financial Responsibility Agreement, then review and update their address and other demographic information. It is important that students carefully update their demographic information as the University periodically sends bills, refund checks, and other important correspondence through the mail.

The Student Financial Responsibility Agreement (SFRA) includes agreements to pay tuition and fees, requires adherence to payment and withdrawal deadlines, outlines the consequences of delinquencies, and presents required financial aid consents. It also provides students an opportunity to consent to electronic delivery of their 1098-T Tax Form. The following is a brief description of terms included in the SFRA. To view the SFRA document in full, visit uvu.edu/cashier/tuition/sfra.html.

- **FINANCIAL RESPONSIBILITY:** I agree to pay all tuition, fees, and other related costs that result from my registration and/or future drop/add activity and understand that acceptance of these terms constitutes a promise to pay agreement.
- **DROPPING/WITHDRAWING FROM COURSES:** I understand and agree it is my responsibility to drop my own classes if I decide not to attend and further understand that I must drop my classes and/or file a Leave of Absence before the 100% Refund Deadline or I will be responsible for all tuition and fees.
- **CONSEQUENCES OF DELINQUENT ACCOUNT/COLLECTION:** I agree to pay all charges by the published deadlines and understand the consequences of delinquencies on my account including late payment charges, registration holds, and possible collection fees.

- **COMMUNICATION:** I understand all correspondence from Utah Valley University will be sent to the student's **myUVU** email account (including my billing statements) and therefore I am responsible for reading the e-mails I receive from UVU on a timely basis. I agree to keep my contact information current with UVU and further agree to allow Utah Valley University and its agents to contact me at any address, telephone, or cell phone number that I provide now or in the future.
- **FINANCIAL AID DISBURSEMENTS:** I understand that if I am expecting Financial Aid, I am responsible to follow up and ensure I have met all requirements to receive it, and acknowledge that I may be charged a late fee if my Financial Aid has not disbursed by the Late Fee Deadline. I further acknowledge that aid is contingent upon my enrollment and attendance in each class.

Tuition Refund Policy

The tuition refund policy is established by the [Utah State Board of Regents](#) and amended by each college or university to fit their programs. Utah Valley University refunds to students who withdraw from school or drop classes as follows:

Semester:

- Through the 100% refund date published on the Student Timetable....100%
- After the 100% refund date published on the student Timetable....0%

Exact dates for semester, block, and weekend classes can be found at uvu.edu/schedule.

Students must drop classes or completely withdraw by the published 100% Refund Deadline in order to have the charges removed from their account. Students who withdraw after that date will not receive a refund; if they have not paid, they will continue to owe the University for these charges and will be subject to collections procedures if left unpaid.

Changes in enrollment may affect Financial Aid eligibility and amounts received. Financial Aid awards may be pulled back when dropping courses, thus increasing the amount owed.

A Petition to the Refund Policy Form can be obtained online through myUVU or from the Office of the Registrar.

State-Mandated Refund Policies

Students who are living in the following states while actively participating in UVU courses will receive refunds as designated by the state departments of education.

New Mexico

5.100.3.11 PAYMENT AND REFUNDS FOR TUITION:

A. Cooling off period: Any student signing an enrollment agreement or making an initial deposit or payment toward tuition and fees of the institution shall be entitled to a cooling off period of at least three work days from the date of agreement or payment or from the date that the student first visits the institution, whichever is longer. During the cooling off period the agreement can be withdrawn and all payments shall be refunded. Evidence of personal appearance at the institution or deposit of a written statement of withdrawal for delivery by mail or other means shall be deemed as meeting the terms of the cooling off period.

B. Refunds prior to commencing instruction: Following the cooling off period but prior to the beginning of instruction, a student may withdraw from enrollment, effective upon personal appearance at the institution or deposit of a written statement of withdrawal for delivery (as defined above), and the institution shall be entitled to retain no more than \$200 in tuition or fees as registration charges.

C. In the case of students enrolling for non-traditional instruction, a student may withdraw from enrollment following the cooling off period, prior to submission by the student of any lesson materials and effective upon deposit of a written statement of withdrawal for delivery (as defined above) and the institution shall be entitled to retain no more than \$200 in tuition or fees as registration charges or an alternative amount that the institution can demonstrate to have been expended in preparation for that particular student's enrollment.

D. Refunds following commencement of instruction: An institution registered with the department shall adhere to either the following tuition refund policy or to a policy established by the institution's state of residence or accrediting body.

E. A student may withdraw after beginning instruction or submitting lesson materials, effective upon appearance at the institution or deposit of a written statement of withdrawal for delivery (as defined above), and the institution shall be entitled to retain no more than \$200 in tuition or fees as registration charges or an alternative amount that the institution can demonstrate to have been expended in undertaking that particular student's instruction plus a pro rata amount of any additional tuition and fees earned and paid according to the following schedule:

Date of withdrawal as a percent of the enrollment period for which the student was obligated	Portion of tuition and fees obligated and paid that are eligible to be retained by the institution
within 1st 10 percent	10 percent
within 2nd 10 percent	25 percent
within 3rd 10 percent	40 percent
within 4th 10 percent	55 percent
within 5th 10 percent	70 percent
within 6th 10 percent	85 percent
thereafter	100 percent

F. "Enrollment period for which the student was obligated" means a quarter, semester, or other term of instruction followed by the institution which the student has begun and for which the student has agreed to pay tuition.

Introduction

G. Tuition/fee refunds must be made within 30 calendar days of the institution receiving written notice of a student's withdrawal or of the institution terminating enrollment of the student, whichever is earlier. Upon request by a student or the department, the institution shall provide an accounting for such amounts retained under this standard within five work days.

H. The institution's payment and refund policies shall be clearly articulated in the institution's catalog and as part of all enrollment agreements.

Special Lab & Course Fees

Some classes require fees in addition to standard tuition and fees. The online class schedule indicates such lab, course, and materials fees.

Late Payment Fee (Late Fee)

Late Payment Fees are assessed each Wednesday night throughout the semester with a begin date according to the Student Timetable. Late fees are assessed on ALL unpaid account balances at 20%, not to exceed \$200.00 per semester, including accounts awaiting Financial Aid.

Late Registration Fee (Late ADD Fee)

Special approvals are required to register late for a class. The length of time for each late registration period is relative to each part of term and is governed by the Student Timetable. Students who add classes during the late registration period must finalize the process by paying for appropriate late registration fees in addition to their tuition/fees according to the published dates on the Semester Student Timetable.

Payment Options

At the Cashier Windows or One Stop

- Cash
- Check
- PIN-based debit

Online through Tuition Payment Plus

- Electronic Checks

Electronic Check payments are free of charge and can be made online only with the bank routing number and account number. Payments can be made from a personal checking or savings account. Corporate checks, credit card checks, home equity, traveler's cheques, etc. are not accepted. Electronic check payments are processed through Tuition Payment PLUS, accessed through **myUVU**. Any check returned by the payer's bank for any reason, will be considered a "dishonored" check and all penalties for a "dishonored" check will be applicable.

- Credit Cards

Payments with credit cards are accepted online only and will be charged a non-refundable service fee of 2.85% (minimum \$3.00). Most major credit cards are accepted including VISA, MasterCard, American Express, and Discover.

Tuition Payment Plan

The tuition payment plan allows students to pay for their tuition and fees over the course of the semester in three payment installments with a minimal fee to enroll. If students enroll before the published Payment Deadline dates, their classes will not be dropped for nonpayment. In addition, enrollment in the payment plan before the Late Fee Deadline will prevent the 20% late fee from being assessed. More information about the payment plan can be found at <https://www.uvu.edu/collections/tuition.html>.

Check Cashing Procedures

The University does not accept two-party checks. Checks written to UVU must have the student's UV ID number, the payer's address, and payer's phone number on the face of the check. Two forms of identification are required at all campus check-cashing locations.

Checks made for an amount larger than the total tuition and fees due will not be accepted. Checks written for up to \$5 over the amount of the purchase may be cashed at the Bookstore. All other campus locations accept checks for amount of purchase (or payment) only.

Dishonored Checks

A dishonored check is any check returned by the payer's bank for any reason, including, but not limited to, insufficient funds, no account, bad account, stop payment, unauthorized account, refer to maker. Checks written that later have a "stop payment" placed upon them will be considered as "dishonored".

A service charge will be assessed on each dishonored check unless the payer can document in writing from the bank that it was a bank error.

Third Party/Sponsored Payments

Students are responsible for ensuring that appropriate documentation for a third-party or sponsored payment is submitted to the Accounts Receivable Office prior to the start of classes each semester. If paperwork cannot be submitted to the Accounts Receivable Office by the published Payment Deadline, students should consider enrolling in the Tuition Payment Plan to avoid having their classes purged for nonpayment.

Students who are sponsored by a third-party must comply with the terms of the sponsor agreement and verify that all tuition and fees charges are paid by the sponsor. Any balance not paid by the sponsor remains the student responsibility and is subject to all payment deadlines and late fees.

If a student adjusts their registration schedule after their authorization has been received by UVU, it is the student's responsibility to verify that any course or tuition and fee changes will be paid by the sponsor and that these changes are reported to the Accounts Receivable office for proper processing.

If the sponsor does not provide funding by the end of the semester, the student will be responsible for payment of tuition and fees.

2018-19 Undergraduate Tuition and General Fee Schedule								
Resident					Non-Resident			
Credit Hours	Tuition	Fees	Total		Credit Hours	Tuition	Fees	Total
0.5	287.00	22.00	309.00		0.5	857.00	22.00	879.00
1.0	384.00	39.00	423.00		1.0	1,159.00	39.00	1,198.00
1.5	481.00	56.00	537.00		1.5	1,461.00	56.00	1,517.00
2.0	578.00	73.00	651.00		2.0	1,763.00	73.00	1,836.00
2.5	675.00	90.00	765.00		2.5	2,065.00	90.00	2,155.00
3.0	772.00	107.00	879.00		3.0	2,367.00	107.00	2,474.00
3.5	869.00	124.00	993.00		3.5	2,669.00	124.00	2,793.00
4.0	966.00	141.00	1,107.00		4.0	2,971.00	141.00	3,112.00
4.5	1,063.00	158.00	1,221.00		4.5	3,273.00	158.00	3,431.00
5.0	1,160.00	175.00	1,335.00		5.0	3,575.00	175.00	3,750.00
5.5	1,257.00	192.00	1,449.00		5.5	3,877.00	192.00	4,069.00
6.0	1,354.00	209.00	1,563.00		6.0	4,179.00	209.00	4,388.00
6.5	1,451.00	226.00	1,677.00		6.5	4,481.00	226.00	4,707.00
7.0	1,548.00	243.00	1,791.00		7.0	4,783.00	243.00	5,026.00
7.5	1,645.00	260.00	1,905.00		7.5	5,085.00	260.00	5,345.00
8.0	1,742.00	277.00	2,019.00		8.0	5,387.00	277.00	5,664.00
8.5	1,839.00	294.00	2,133.00		8.5	5,689.00	294.00	5,983.00
9.0	1,936.00	311.00	2,247.00		9.0	5,991.00	311.00	6,302.00
9.5	2,033.00	328.00	2,361.00		9.5	6,293.00	328.00	6,621.00
10.0	2,130.00	345.00	2,475.00		10.0	6,595.00	345.00	6,940.00
10.5	2,227.00	345.00	2,572.00		10.5	6,897.00	345.00	7,242.00
11.0	2,324.00	345.00	2,669.00		11.0	7,199.00	345.00	7,544.00
11.5	2,421.00	345.00	2,766.00		11.5	7,501.00	345.00	7,846.00
Equal Tuition Payment for 12.0-18.0 credit hours								
12.0	2,518.00	345.00	2,863.00		12.0	7,803.00	345.00	8,148.00
12.5	2,518.00	345.00	2,863.00		12.5	7,803.00	345.00	8,148.00
13.0	2,518.00	345.00	2,863.00		13.0	7,803.00	345.00	8,148.00
13.5	2,518.00	345.00	2,863.00		13.5	7,803.00	345.00	8,148.00
14.0	2,518.00	345.00	2,863.00		14.0	7,803.00	345.00	8,148.00
14.5	2,518.00	345.00	2,863.00		14.5	7,803.00	345.00	8,148.00
15.0	2,518.00	345.00	2,863.00		15.0	7,803.00	345.00	8,148.00
15.5	2,518.00	345.00	2,863.00		15.5	7,803.00	345.00	8,148.00
16.0	2,518.00	345.00	2,863.00		16.0	7,803.00	345.00	8,148.00
16.5	2,518.00	345.00	2,863.00		16.5	7,803.00	345.00	8,148.00
17.0	2,518.00	345.00	2,863.00		17.0	7,803.00	345.00	8,148.00
17.5	2,518.00	345.00	2,863.00		17.5	7,803.00	345.00	8,148.00
18.0	2,518.00	345.00	2,863.00		18.0	7,803.00	345.00	8,148.00
End of Equal Tuition Payment for 12.0-18.0 credit hours								

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18.5	2,615.00	345.00	2,960.00		18.5	8,105.00	345.00	8,450.00
19.0	2,712.00	345.00	3,057.00		19.0	8,407.00	345.00	8,752.00
19.5	2,809.00	345.00	3,154.00		19.5	8,709.00	345.00	9,054.00
20.0	2,906.00	345.00	3,251.00		20.0	9,011.00	345.00	9,356.00
20.5	3,003.00	345.00	3,348.00		20.5	9,313.00	345.00	9,658.00
21.0	3,100.00	345.00	3,445.00		21.0	9,615.00	345.00	9,960.00
21.5	3,197.00	345.00	3,542.00		21.5	9,917.00	345.00	10,262.00
22.0	3,294.00	345.00	3,639.00		22.0	10,219.00	345.00	10,564.00
22.5	3,391.00	345.00	3,736.00		22.5	10,521.00	345.00	10,866.00
23.0	3,488.00	345.00	3,833.00		23.0	10,823.00	345.00	11,168.00
23.5	3,585.00	345.00	3,930.00		23.5	11,125.00	345.00	11,470.00
24.0	3,682.00	345.00	4,027.00		24.0	11,427.00	345.00	11,772.00
24.5	3,779.00	345.00	4,124.00		24.5	11,729.00	345.00	12,074.00
25.0	3,876.00	345.00	4,221.00		25.0	12,031.00	345.00	12,376.00

For each credit hour over 25, \$194 per credit hour will be assessed for residents and \$604 per credit hour for non-residents

Admission Application Fee	\$35
Late Admission Application Fee (After deadline of August 1 for fall and December 1 for spring)	\$40 (\$35 +\$40 late fee) total \$75
Readmit Application Fee	\$15
Readmit Late Application Fee (After deadline of August 1 for fall and December 1 for spring)	\$40 (\$15 +\$40 late fee) total \$55
International Student Admissions Application Fee	\$100
International Student Semester Fee	\$40
Late Graduation Application Fee	\$25
Special Lab and Course Fees	(see online class schedule)
Challenge Credit Fee	\$5 per credit
Challenge Credit Form	\$15
Late Registration Fee	\$45 beginning Spring 2018
For each credit hour over 25 for the 2018-2019 Academic Year:	
Resident	\$194
Non-resident	\$604
Late Tuition Payment Fee	Assessed each Wednesday night on ALL UNPAID ACCOUNT BALANCES, including 2 nd block, at 20%, not to exceed \$200
Tuition Payment Plan - Enrollment Fee	\$25
Tuition Payment Plan - Fee for each late installment payment	\$5
Reactivation Fee (Students whose classes are dropped for non-payment must pay the reactivation fee in order to again be eligible for class registration or placement on a wait list.)	\$10

University Police

Crime Awareness & University Police

The safety and well-being of our students, faculty, and staff are a high priority at Utah Valley University.

Although the UVU campus is a relatively safe place, we are not immune to those problems that beset all urban citizens, including problems related to public safety and law enforcement.

The Utah Valley University Police Department (UVUPD), a police force fully accredited by the State of Utah, is charged with protecting your safety and property on our campuses. The following outlines the services, policies, and programs which help us to meet that challenge.

The full support and cooperation of the entire University community is required to allow for the pursuit of knowledge in a safe and secure environment.

Utah Valley University police provide several important services to a diverse University community consisting of over 37,000 students and supporting faculty and staff by providing 24 hour-a-day police patrol and security protection for the benefit of all University properties, employees, students and visitors on campus.

Utah Valley University police officers have the same full police powers and responsibilities as do officers in other Utah law enforcement agencies.

All UVUPD police officers are trained at Utah State Police Academies and each year receive a minimum of forty (40) hours of in-service and specialized training in crime prevention and awareness, first aid, firearms, defensive tactics, legal updates, evidence gathering, traffic control and traffic accident investigation, follow-up on criminal and civil investigations, etc.

Several patrol methods are used to secure and patrol University properties, including uniformed and plain clothes, vehicle, and foot patrol.

University police officers are also responsible for providing a full range of public safety services to the University community, including the handling of all crime reports, investigations, traffic accidents, enforcement of laws regulating underage drinking, the use of controlled substances, weapons violations, and enforcement of all applicable State, County and local laws, in addition to all other incidents such as medical and fire emergencies which require police assistance.

University police officers prepare and submit reports of incidents brought to their attention. As a courtesy, they share information on arrests and serious crimes with any law enforcement agency having a legitimate need to know.

The serial numbers of all vehicles, office equipment, and personal property stolen from our University campuses are reported nationwide through the National Crime Information Center (NCIC).

UVUPD encourages the prompt and accurate reporting of crimes to our office by victims, witnesses or any other persons having knowledge that a crime has been committed on our campus.

The UVU Dispatch office is staffed 24 hours a day, 7 days a week, 365 days a year and can be reached by calling 801-863-5555 or dialing 9-1-1.

The University Police office is located in Gunther Trades 331.

There are emergency telephones located in each Orem Campus elevator. When activated these phones will automatically put you in direct contact with the elevator company.

Crime Awareness/Crime Prevention

An important function of UVUPD is making our campus users aware of how to avoid becoming a victim of crime.

If requested, one of our University police officers will talk to groups regarding Crime Awareness/Crime Prevention.

UVUPD officers will also provide escort services to those who desire assistance in safely getting to their car.

CAMPUS Safety Awareness Programs

The Chief of Police/Director of Public Safety, the University Fire Marshal and other staff members are involved in the University Safety Committee which makes periodic security and safety surveys of campus facilities.

Officer Friendly Program

Several times throughout the school year our University police officers will make an Officer Friendly presentation to the University Child Care Center emphasizing "police are our friends". Child safety is stressed.

Grounds & Building Safety

The University Facilities and Planning/Plant Operations Departments maintain college buildings and grounds with a concern for safety and security. These facilities are inspected regularly; plant staff attempt to make prompt repairs and respond 24 hours-a-day to reports of potential safety and security hazards, such as broken windows and locks. The University Police Department assists maintenance personnel by reporting potential safety and security hazards. Students, as well as employees, are encouraged to call Facilities Planning and Maintenance (801-863-8130) to report any hazard.

Representatives from University Police/Department of Public Safety and Facilities Planning routinely inspect the entire campus to review lighting and environmental safety concerns.

Crime Statistics for the University Community

The University Police Department submits a monthly Uniform Crime Report to the Federal Bureau of Investigation (FBI) through the Utah Bureau of Criminal Identification. UCR data is available online through BCI at publicsafety.utah.gov/bci.

UVU also submits crime data to the Department of Education. For a more detailed breakdown, see www.uvu.edu/police.

A glossary of offenses is available at ope.ed.gov/security/index.aspx.

Introduction

OFF-CAMPUS STUDENT RESIDENCES

There are numerous privately owned rental units off-campus in which students reside. The University encourages students to locate and investigate off-campus living units whose owners have agreed to exercise reasonable efforts to maintain rental facilities in good repair including properly functioning locks on doors and windows. Some of the large apartment complexes provide their own night security watch.

THE UNIVERSITY CANNOT AND DOES NOT GUARANTEE OR REPRESENT THAT OWNERS AND MANAGERS ALWAYS MEET OUR SUGGESTED PHYSICAL CRITERIA. Thus, students are individually responsible to carefully choose a safe and secure off-campus apartment.

Crime prevention and crime awareness programs emphasizing security and what students and employees can do to help themselves from becoming a victim are provided free, upon request, by contacting local police agencies or the University Police Department, telephone 801-863-5555.

The University Police Department is responsible for policing the Utah Valley University campuses. The respective city police departments are responsible to police the surrounding areas where our students may choose to live.

The University Police Department has a mutual working relationship with all Local, County, Federal and any other State law enforcement agencies in Utah County (Utah Valley region), providing each department as requested, or as becomes necessary, with patrol assistance, information exchange, and back up.

Skateboards, Roller Blades, Hover Boards, Roller Skates, Bicycles, & Motorcycles

Skateboards, roller blades, hover boards, roller skates, and bicycles are allowed on campus exterior locations for transportation only. All Utah State traffic laws and University administrative rules regarding the use of such devices must be obeyed at all times. NO stunts or tricks are allowed. Motorcycles and like devices shall not be operated on sidewalks without the approval of the Chief of Police or the Facilities Director, unless it is a university owned vehicle responding to an emergency situation.

Sanctions

Violations of this policy may be enforced against students, employees and visitors of Utah Valley University by notices or citations which may be processed and settled through the police office or court of jurisdiction whichever is appropriate.

Other Facilities Utilized by UVU

UVU has satellite offices located in several communities throughout Utah such as: Spanish Fork, and Heber City. University Police provide law enforcement and crime prevention services for these areas as needed. Routine patrol coverage is by the appropriate local law enforcement agencies.

Please feel free to direct any comments and or questions that you may feel have not been answered in this document to the office of the Director of Public Safety.

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College of Engineering and Technology

The mission of the College of Engineering and Technology is to prepare students for successful careers or advanced study in a dynamic, technology-based, global environment. The college utilizes an applied learning environment to provide the needed technical knowledge, skills, and scholarship that enable students to excel in their chosen profession. In addition, the college is committed to mutually enriching relationships with alumni, government, regional industry--and beyond, to supplement the classroom, to provide real-world experience, and to foster a desire for lifelong learning.

- **Dean:** Saeed Moaveni
- Office: CS 720c
- Telephone: 801-863-8237
- Email: saeed.moaveni@uvu.edu
-
- **Administrative Support:** Jamie Winn
- Office: CS 720
- Telephone: 801-863-8321
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-
- **Assistant to Dean, Director of Finance:** Susan Dunn
- Office: CS 720a
- Telephone: 801-863-8771
- Email: Susan.Dunn@uvu.edu
-
- **Assistant Dean, Advancement:** TBA
- Office:
- Telephone:
- Email:
-
- **Associate Dean:** TBA
- Office:
- Telephone:
- Email:
-
- **Associate Dean:** Abraham Teng
- Office: CS 719
- Telephone: 801-863-6201
- Email: ATeng@uvu.edu
-
- **Communication Specialist:** Jim McCulloch
- Office: SA 306
- Telephone: 801-863-7004
- Email: JimMcCulloch@uvu.edu
-
- **Internship Coordinator:** Sara Moore
- Office: GT601
- Telephone: 801-863-5641
- Email: smoore@uvu.edu

Advisement Center

- **Administrative Support:** Alexis Beagley
- Office: CS 635
- Telephone: 801-863-8648
- Email: AlexisC@uvu.edu
-
- **Advisement Center Manager:** Julie Harps
- Office: CS 624
- Telephone: 801-863-8403
- Email: jharps@uvu.edu
 - Information Systems M-Z
 - Information Technology M-Z
 - Geomatics
 - Cybersecurity
- **Advisors:**
 - Arlene Padilla Arenaz

Colleges and Schools

- Office: CS 635
- Telephone: 801-863-5748
- Email: arlenea@uvu.edu
 - Computer Science G-N
 - Computer Engineering
 - Software Engineering

- Chelsey Chalk
- Office: CS 635
- Telephone: 801-863-5819
- Email: CChalk@uvu.edu
 - Civil engineering
 - Electrical Engineering
 - Mechanical Engineering
 - Electrical Automation & Robotics Technology (EART)
 - Mechatronics A-L
 - Pre-Engineering N-Z

- Kyle Erickson
- Office: CS 635
- Telephone: 801-863-6597
- Email: Kyle.Erickson@uvu.edu
 - Information Management
 - Information Systems & Technology A-M
 - Administrative Information Management
 - Business Marketing Education

- Shandi Erickson
- Office: CS 635
- Telephone: 801-863-6238
- Email: shandi.erickson@uvu.edu
 - Computer Science O-Z
 - Computer Engineering
 - Software Engineering

- Wendy Farnsworth
- Office: CL 106
- Telephone: 801-863-6780
- Email: farnswwe@uvu.edu
 - Culinary Arts

- Monica Ferreyra
- Office: CS635
- Telephone: 8350
- Email: monicaf@uvu.edu
 - Civil Engineering
 - Electrical Engineering
 - Mechanical Engineering
 - Pre-Engineering A-M
 - Engineering Design Technolog

- Marianna Henry
- Office: CS 635
- Telephone: 801-863-5598
- Email: marianna.henry@uvu.edu
 - Digital Media A-L

- Jennie Olson
- Office: CS 635
- Telephone: 801-863-8408
- Email: jennie.olson@uvu.edu
 - Computer Science A-F
 - Computer Engineering
 - Software Engineering

- Amy Ostler
- Office: CS 635
- Telephone: 801-863-8138
- Email: ostleram@uvu.edu
 - Construction Management
 - Building Inspection Technology
 - Cabinetry and Architectural Woodwork

- Facilities Management
- Mechatronics Technology M-Z

- Carrie Peterson
- Office: CS 635
- Telephone: 801-863-7454
- Email: peteronca@uvu.edu
 - Automotive Technology
 - Collision Repair Technology
 - Diesel Mechanics
 - Technology Management

- Joyce Porter
- Office: CS 635
- Telephone: 801-863-7125
- Email: Joyce.Porter@uvu.edu
 - Digital Media M-Z

Degrees Offered

Master

Computer Science
Cybersecurity

Bachelor of Science

Animation and Game Development
Business/Marketing Education
Civil Engineering
Computer Engineering
Computer Science

- Computer Networking
- Computer Science

Construction Management
Digital Audio
Digital Cinema
Electrical Engineering
Geomatics
Information Management
Information Systems

- Application Development
- Business Intelligence Systems
- Health Information Systems
- Information Security Management

Information Technology

- Computer Forensics and Security
- Network Administration and Security

Mechanical Engineering
Mechatronics Engineering Technology
Software Engineering
Technology Management

- Technical Emphases: (See Advisor for Applicable AAS Degree)

Web Design and Development

- Interaction and Design
- Web and App Development

Associate in Science/Arts

Administrative Information Management
Automotive Technology
Cabinetry and Architectural Woodwork
Computer Science
Electrical Automation and Robotics Technology
Engineering Design Technology
Geomatics

Colleges and Schools

Information Systems and Technology
Pre-Engineering

- Pre-Engineering

Associate in Pre-Engineering

Pre-Engineering

- Biological and Chemical Engineering
- Civil and Mechanical Engineering
- Computer and Electrical Engineering

Associate in Applied Science

Administrative Information Support
Automotive Power Sports
Automotive Technology
Building Inspection Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology

- Collision Repair
- Street Rod

Computer Science

- Computer Engineering
- Computing and Networking Science

Construction Management
Culinary Arts
Diesel Mechanics Technology
Digital Communication Technology
Electrical Automation and Robotics Technology
Engineering Design Technology
Facilities Management
Information Systems and Technology
Mechatronics Engineering Technology
Technology
Pre-Engineering

- Biological and Chemical Engineering
- Civil and Mechanical Engineering
- Computer and Electrical Engineering

Diploma

Automotive Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology

- Collision Repair
- Street Rod

Diesel Mechanics Technology

Certificate of Completion

Administrative Support
Automotive Technology
Building Inspection Technology
Cabinetry and Architectural Woodwork
Collision Repair Technology
Construction Management
Culinary Arts
Diesel Mechanics Technology
Network Administration
Programmer

Certificate of Proficiency

Application Development
Civil Design Technology

Data Analytics
 Database Administration and Data Warehousing
 Digital Media
 Healthcare Information Technology
 Information Technology
 Mechanical Design Technology
 Six Sigma Green Belt
 Structural Design Technology

Minor

Applied Data Analytics
 Business Education

- Basic Business Core
- Business Information Technology
- Information Technology

Business Information Technology
 Computer Science
 Digital Media
 Information Systems and Technology
 Technology Management

Departments For program descriptions, see individual departmental sections in this catalog or on the department webpages.

Automotive Technology

- Automotive Power Sports
- Automotive Technology
- Collision Repair Technology
- Diesel Mechanics Technology
- Street Rod
- **Department Chair:** Don Wilson
- Office: SA 325
- Telephone: 801-863-8124
- Email: wilsondo@uvu.edu
- **Administrative Support:** Katreena Davis
- Office: SA 325
- Telephone: 801-863-7022
- Email: daviska@uvu.edu

The mission of the UVU Automotive Department is to conduct academic and applied teaching. The training programs provide qualified employees for entry level positions in all categories of the Automotive, Collision / Refinish, and Diesel repair technology industries. These programs will afford students the opportunity to attain a one, two, and/or four-year degree at the completion of their training. The training provided will have an emphasis on basic skills and principles which will allow participants to adapt to new and ever changing technologies. Current and foreseeable technology will be utilized in presenting and practicing basic performance skills.

Computer Science

- **Department Chair:** Neil Harrison
- Office: CS 520M
- Telephone: 801-863-7312
- Email:
- **Administrative Support:** Sallie Dodge
- Office: CS 520
- Telephone: 801-863-8218
- Email: sdodge@uvu.edu

The mission of the Computer Science program at Utah Valley University is to qualify students to function as professional computer scientists, computer engineers, and software engineers in the workplace, and to enter appropriate graduate programs. Graduates will be committed to lifelong learning and empowered with the intellectual and ethical foundations necessary to make responsible decisions.

Construction Management

- Building Inspection
- Cabinetry and Architectural Woodwork
- Civil Engineering
- Facilities Management
- **Department Chair:** Eric Linfield

Colleges and Schools

- Office: GT 675m
- Telephone: 801-863-8250
- Email: eric.linfield@uvu.edu
- **Administrative Support:** Robin Bogner
- Office: GT 610d
- Telephone: 801-863-7405
- Email: Robin.Bogner@uvu.edu

The mission of the Clyde Construction Management Institute is to build on a foundation of engaged learning that fosters integrity, creativity and scholarly work. Success is measured by learners who leave professionally prepared to build better communities through service, leadership and lifelong learning.

Culinary Arts Institute

- **Department Chair:** Todd Leonard
- Office: CL 104
- Telephone: 801-863-8087
- Email: TLeonard@uvu.edu
- **Administrative Support:** Marsha Peterson
- Office: CL 102
- Telephone: 801-863-6825
- Email: petermar@uvu.edu

The Culinary Arts Institute is a practical teaching institute that provides opportunity and promotes student success while meeting regional educational needs. Our program provides students with a blend of theoretical, practical, and real world educational experiences through scholarly, creative and engaged industry based learning. We are committed to excellence and strive to provide a learning environment that maximizes student talent and potential both personally and professionally.

Digital Media

- **Department Chair:** Arlen Card
- Office: CS 526g
- Telephone: 801-863-5301
- Email: Arlen.Card@uvu.edu
- **Administrative Support:** Gloria Schneider
- Office: CS 526
- Telephone: 801-863-8485
- Email: schneigl@uvu.edu

Digital Media (DGM) fuses both fundamental theory and practical application in the production of electronically generated content to be delivered via Internet, radio and television, digital cinema, computer games, animation and cinematic visual effects, as well as for emerging technologies such as mobile computing (hand-held computing devices). The curriculum integrates these digital mediums to entertain, educate, and communicate ideas through meaningful human interaction. DGM provides motivated and dedicated students the opportunity to work closely with professionally active faculty members committed to the future of the digital disciplines.

Engineering Technology

- Engineering Technology
- Electrical Automation & Robotics Technology
- Mechanical Engineering
- Mechatronics Engineering Technology
- Pre-Engineering
- **Department Chair:** Dave Adams
- Office: CS 632
- Telephone: 801-863-6052
- Email: adamsda@uvu.edu
- **Administrative Support:** Christine Peterson
- Office: CS 632
- Telephone: 801-863-5571
- Email: Christine.peterson@uvu.edu

The Mission of the Engineering Technology Department is to prepare graduates to work in high demand, very technical, vastly diverse, automated industries that provide products and services to keep our state and national economy running. The Pre-Engineering graduates are prepared to go into upper level engineering fields. The Mechatronics graduates are focused on designing the newest machines and automated systems needed by industry. The Electrical Automation and Robotics Technology graduates keep industry running by fixing, adapting, programming, and maintaining the automated machines and systems used in industry. The hands on/class room/lab learning approach used in the Engineering Technology Department is the best skill learning approach in higher education.

Engineering Design Technology

- **Department Chair:** Robert Price
- Office: CS 704g
- Telephone: 801-863-8145
- Email: pricero@uvu.edu
- **Administrative Support:** Christine Bigelow
- Office: CS 704
- Telephone: 801-863-8363
- Email: bigeloch@uvu.edu

The mission of the UVU Engineering Design Technology program (EDT) is to prepare future professionals to engage in diverse design, modeling, and drafting survey, and mapping disciplines. The program cultivates an elevated commitment to work ethic, quality, productivity, and service. Successful graduates will be dynamic self-starters and lifelong learners who are serious about work and accept the stewardship of designing the future.

Information Systems & Technology

- **Department Chair:** Keith Mulbery
- Office: CS 601g
- Telephone: 801-863-8843
- Email: keith.mulbery@uvu.edu
- **Administrative Support:** Cheryl Levi
- Office: CS 601
- Telephone: 801-863-8182
- Email: Cheryl.Levi@uvu.edu

The mission of Information Systems & Technology Department is to offer stackable degree programs to provide students with engaged learning opportunities to help students develop technical, communication, managerial, and lifelong-learning skills. The department's programs prepare students for opportunities in information systems, information technology and security, information management, and education.

Technology Management

- **Department Chair:** Angela Trego
- Office: GT 613a
- Telephone: 801-863-7175
- Email: angela.trego@uvu.edu
- **Administrative Support:** Wendy Ellison
- Office: GT 616
- Telephone: 801-863-8137
- Email: WendyE@uvu.edu

The mission of the Technology Management department is to provide academic degrees in technical and operations management relevant to the global economy. Our courses provide appropriate knowledge and skills through engaged learning, hands-on activities, scholarship investigation, ethical responsibility, creativity, and lifelong learning. Students will be prepared for professional careers in management and entrepreneurship as well as provided with a strong foundation for advanced academic study. Our graduates will also be prepared to contribute to their employers and communities through leadership, service, and a concern for the environment.

College of Health and Public Service

The College of Health & Public Service (CHPS) provides rigorous professional training and educational opportunities that engage students and advance aviation, criminal justice, community health, dental hygiene, forensic science, law enforcement, emergency services, nursing, respiratory Therapy, and other related health and public service professions. **CHPS embraces student and community engaged learning that is at the core of UVU's mission.** Our goal is to provide professionally competent individuals who will not only provide communities within Utah with a population of highly trained people, but also leaders in their communities.

The College of Health and Public Service dean's office is located at the Provo Airport in Hangar A (HA). Our address is 1155 Slide Line Drive, Provo, UT 84601.

- **Dean:** David A. McEntire
- Office: HB 207

Colleges and Schools

- Telephone: 801-863-7817
- Email: david.mcentire@uvu.edu
- Mail Stop: MS 314

- **Associate Dean:** Tom Sturtevant
- Office: HA 202
- Telephone: 801-863-7518
- Email: Tom.Sturtevant@uvu.edu

- **Assistant Dean:** Barbara Burr
- Office: HA 204
- Telephone: 801-863-7896
- Email: Barbara.burr@uvu.edu

- **Assistant Dean:** Dustin Berlin
- Office: HA 203
- Telephone: 801-863-7870
- Email: berindu@uvu.edu

- **Administrative Assistant to the Dean:** Susie Nicol
- Office: HA 205
- Telephone: 801-863-7817
- Email: susie.king@uvu.edu

- **Financial Assistant to the Dean:** Rebecca Richins
- Office: HA 206
- Telephone: 801-863-7517
- Email: rebecca.richins@uvu.edu

- **Administrative Assistant:** Carrie Matheson
- Office: HA 208
- Telephone: 801-863-5848
- Email: carriem@uvu.edu

- **Assistant Director, Major Gifts:** Jlm Demary
- Office: HA 208
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- **Communications Specialist:** Kaitlin Taft
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- Telephone: 801-863-7771
- Email: ktaft@uvu.edu

- **Advising Manager:** Shalece Nuttall
- Office: HA 208
- Telephone: 801-863-5813
- Email: shalece.nuttall@uvu.edu

- **Internship Coordinator:** James McCoy
- Office: HA 208
- Telephone: 801-863-5702
- Email: james.mccoy@uvu.edu

- **IT Technician:** Nathan Montgomery
- Office: HA 102
- Telephone: 801-863-7756
- Email: NMontgomery@uvu.edu

Degrees Offered

Master of Science

Nursing

Public Service

Bachelor of Science

Aviation Science

- Aviation Administration
- Professional Pilot

Community Health

- Community Health
- Health Services Administration

Criminal Justice

Dental Hygiene

Emergency Services Administration

- Emergency Care
- Emergency Management
- Emergency Management and Disaster Assistance

Forensic Science

- Forensic Investigation
- Forensic Laboratory

Nursing

Respiratory Therapy

School Health Education

Associate in Science/Arts

Aviation Science

Community Health

Criminal Justice

Emergency Services

Health Sciences

Intelligence Studies

Nursing

Associate in Applied Science

Aviation Science

Dental Hygiene

Emergency Services

- Aviation Fire Officer
- Fire Officer
- Firefighter/Emergency Care

Respiratory Therapy Pre-Professional

Wildland Fire Management

Certificate of Completion

Firefighter Recruit Candidate

Paramedic

Certificate of Proficiency

Law Enforcement Academy

National Security Studies

Minor

Community Health Education

Criminal Justice

Forensic Science

Colleges and Schools

National Security Studies

School Health Education

Programs

For program descriptions, see individual departmental sections in this catalog or on the department webpages.

Allied Health

Dental Hygiene

- **Department Chair:** Dianne Knight
- Office: HP 142d
- Telephone: 801-863-6885
- Email: Dianne.Knight@uvu.edu

The primary responsibility of the Dental Hygienist is the prevention of oral health problems. The dental hygienist is a licensed professional and a member of the dental team, responsible for providing preventative and therapeutic care and education for the control of oral disease. Providing dental hygiene care requires application of biological and psychosocial concepts of health and human functioning.

Respiratory Therapy

- **Program Coordinator:** Max Eskelson
- Office: HP 142d
- Telephone: 801-863-5897
- Email: Max.Eskelson@uvu.edu

Aviation Science

- **Department Chair:** Randall Johnson
- Office: HA 202a
- Telephone: 801-863-7819
- Email: Randall.Johnson@uvu.edu

The mission of UVU Aviation Science is to provide a superior educational experience which prepares students for successful careers and promotes responsible citizenship in a global aviation environment. Degrees are offered through technology-enhanced traditional classroom and innovative online delivery methods. Simulations and flight training are integrated with scholarly work to create a complete and well-balanced aeronautics program. The curriculum is developed through ties with industry to incorporate changing standards in technology and procedural advances. Our student-centered approach encourages leadership and engaged life-long learning. We emphasize public awareness and safety in aviation as our commitment to the community at large.

Criminal Justice/Law Enforcement

- **Department Chair:** Matthew Duffin
- Office: EN 101d115b
- Telephone: 801-863-6896
- Email: matthew.duffin@uvu.edu

Center for National Security Studies

- **Director:** Ryan J. Vogel
- Office: CB 310j
- Telephone: 801-863-6891
- Email: Ryan.Vogel@uvu.edu

Law Enforcement Academy

- **Director:** Buckey Walters
- Office: EN 114a
- Telephone: 801-863-8062
- Email: buckey.walters@uvu.edu

The mission of the Criminal Justice Department is to provide students with a complete understanding of both the theory and practice of the Criminal Justice system, Forensic Science field, and area of national security. The Criminal Justice Department endeavors to expose students to crucial thinking skills, engaged learning and effective communication; engender creative problem solving skills that results from the ability to acquire and evaluate information; provide opportunities to navigate advanced technological systems combining theory with extensive hands-on practice using equipment currently used by professional practitioners; provide the opportunity for personal and social growth and to become awareness of the diverse cultural, historical, economic and political forces that shape our society.

Emergency Services

- **Department Chair:** Gary Noll
- Office: FS 202a
- Telephone: 801-863-7741
- Email: Gary.Noll@uvu.edu

The mission of the department of Emergency Services at Utah Valley University is to support emergency services, crisis and disaster relief through excellence and innovation in education, training, scholarship, and service.

Institute for Emergency Services & Homeland Security

- Under the Direction of John Fisher
- Office: FS 120a
- Telephone: 801-863-7732
- Email: John.Fisher@uvu.edu

The mission of the Institute of Emergency Services and Homeland Security at Utah Valley University is to support preparedness, resiliency, and security disciplines through excellence and innovation in education, training, and scholarly research.

The Institute can collaborate with other institutions of higher education, as well as local, regional, national agencies, and private sector interests, in order to reach all target audiences identified by the Department of Homeland Security, as well as fill a much needed niche in higher education. Collaboration will allow us to work with other dimensions of a broader Homeland Security framework to plan for, create and implement local, regional and possibly national educational and training programs designed to prepare people with responsibilities for prevention, initial response, mitigation, and recovery of local, regional, and/or national security incidents.

Nursing

- **Department Chair:** Dale Maughan
- Office: HP 203x
- Telephone: 801-863-7411
- Email: Dale.Maughan@uvu.edu

The UVU Department of Nursing provides quality nursing education, helping students to cultivate knowledge, sound clinical judgment, and a foundation for lifelong learning, as they progress toward becoming competent, caring nurses in a complex and changing healthcare environment. Students learn patient-centered care, inquiry and reasoning skills, nursing roles and collaboration, and quality and safety principles, preparing them to work successfully in a variety of healthcare settings.

Public & Community Health

- **Department Chair:** Mary Brown
- Office: HP 101u
- Telephone: 801-863-7398
- Email: brownma@uvu.edu

Public and Community Health graduates pursue a variety of careers, including health education, health promotion, and health services administration. Graduates are qualified to work in government health agencies and in private-sector settings, such as public health departments, health maintenance organizations, hospitals, clinics, and specialized health agencies such as the American Heart Association. An emphasis in School Health Education prepares students to teach health in secondary education.

Public Service

- **Program Director:** Thomas Sturtevant
- Office: HA 202
- Telephone: 801-863-7398
- Email: Tom.Sturtevant@uvu.edu

The Master of Public Service (MPS) degree at UVU develops the next generation of public service administrators. The MPS offers students an applied and engaging public sector education with broad based knowledge, skills, and abilities in public service administration. The interdisciplinary curriculum focuses on managing, leading, and administering vital public services and public safety functions with an emphasis on ethical considerations, communications, strategic planning, public policy issues, and research methods.

Utah Fire & Rescue Academy (UFRA)

- **Director:** Hugh Connor
- Office: FS 205c
- Telephone: 801-863-7706
- Email: connorhu@uvu.edu
- Website: uvu.edu/ufra

Utah Fire & Rescue Academy (UFRA) mission is to educate, train, validate, and support the fire and emergency services at the highest quality level possible.

College of Humanities and Social Sciences

- **Dean:** Steven Clark
- Office: CB 509B
- Telephone: 801-863-7435
- Email: steven.clark@uvu.edu
- **Administrative Support:** Sara Ames

Colleges and Schools

- Office: CB 509
- Telephone: 801-863-7435
- Email: Sara.Ames@uvu.edu
- Fax: 801-863-7383

- **Associate Dean, Academics:** Janet Colvin
- Office: CB 509C
- Telephone: 801-863-7282
- Email: colvinja@uvu.edu

- **Assistant Dean, Administration and Development:** Toni E. Harris
- Office: CB 509D
- Telephone: 801-863-6816
- Email: harristo@uvu.edu

- **Assistant to Dean, Finance & Operations:** Jolene Arnoff
- Office: CB 509E
- Telephone: 801-863-8743
- Email: arnoffjo@uvu.edu

- **Communication Specialist:** Marianne Wilcock
- Office: CB 507T
- Telephone: 801-863-6042
- Email: Marianne.Wilcock@uvu.edu
- Fax: 801-863-7383

- **Internship Specialist:** McKay Isham
- Office: CB 508C
- Telephone: 801-863-5639
- Email: mckay.isham@uvu.edu

- **IT Specialist:** Niles Wimber
- Office: CB 309D
- Telephone: 801-863-8942
- Email: niles.wimber@uvu.edu

Degrees Offered

Master of Social Work

Bachelor of Arts/Science

Behavioral Science

- Anthropology
- Sociology

Communication

- Journalism
- Communication Studies
- Public Relations

Deaf Studies

- General Deaf Studies
- Interpreting

English

- Creative Writing
- Literary Studies
- Writing Studies

Family Science

History

Humanities

Integrated Studies

- American Sign Language
- Anthropology
- Art History
- Communication

- English
- Ethics
- French
- German
- Graphic Design
- History
- Humanities
- Philosophy
- Russian Studies
- Photography
- Social Sciences
- Sociology
- Spanish

Philosophy

Political Science

- American Government
- Global Politics
- Indian Affairs Administration
- Peace and Justice Studies
- Public Administration and Public Policy
- Public Law and Political Philosophy

Psychology

Secondary Education

- ASL and Deaf Studies
- English
- History and Social Studies
- Secondary French Education
- Spanish

Spanish

Bachelor of Social Work

Associate in Arts/Science

Behavioral Science

Communication

English

English with an Emphasis in Technical Communication

History and Political Science

Humanities

Philosophy

Certificate of Proficiency

Ethics

Interdisciplinary Gerontology

Licensed Substance Abuse Counseling

Technical Communication

Minor

American Indian Studies

American Studies

ChineseCommerce

Chinese Language

Chinese Studies

Cinema Studies

Classical Studies

Communication

Constitutional Studies

Deaf Studies

English Creative Writing

English Education

English Literary Studies

Ethics

Environmental Studies

Family Science

French

Colleges and Schools

Gender Studies
German
History
Humanities
Languages
Latin American Studies
Peace and Justice Studies
Philosophy
Political Science
Portuguese
Psychology
Religious Studies
Russian Studies
Spanish
Technical Communication
Writing Studies

Programs

Behavioral Science

- **Department Chair:** Cameron John
- Office: CB 210B
- Telephone: 801-863-6377

Academic Advising Appointments: uvu.edu/besc/bescacademicadvising.html

The Behavioral Science department is a rigorous interdisciplinary program (Anthropology, Family Studies, Psychology, Social Work, Sociology, and Substance Use Disorder Counseling) that prepares students to make positive contributions in their academic, work, and community settings by developing their understanding of human functioning in various contexts. We promote and mentor student engagement with each other and with their academic, professional, or geographic communities in order to achieve essential learning outcomes.

Communication

- **Department Chair:** David Morin
- Office: CB 502V
- Telephone: 801-863-5509

The Utah Valley University Communication Department is shaping students to become the next top leaders in journalism, public relations and speech communication through courses and engaged-learning experiences that are theoretically driven, innovative, and applied. The department prepares students with the necessary skills to communicate visually, orally and through written documentation within the context demanded by the business, journalism, advertising, and public relations worlds. Students are also equipped with a solid ethical foundation and an understanding of diversity and interdependence in the global community.

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in interpersonal communication, intercultural communication, international communication, organizational communication and journalism.

Encouraging student internships, and working closely with Student Media and other units on campus, the curriculum balances traditional, academic-style learning with applied, practical approaches to study in the field.

Note: Communication students in the journalism emphasis are required to have laptop computers.

English & Literature

- **Department Chair:** Brian Whaley
- Office: CB 402v
- Telephone: 801-863-6071

The Department of English and Literature provides an innovative and stimulating learning environment to help students broaden their cultural experiences, deepen and refine their abilities in critical thinking, and improve their skills in written and verbal communication. By offering courses, programs and activities in literature, creative writing, college-level composition, and technical communication, the department aims to foster an invigorating and diverse learning community that changes the ways students envision themselves and the world, thus making them more thoughtful and productive contributors to their communities. Students pursuing English studies gain invaluable workplace skills: they think more critically and creatively; they communicate clearly and logically; they comprehend the ways language defines and affects behavior, and they come to understand the complexity of human relations in various cultural and historical contexts.

History & Political Science

- **Department Chair:** Jay DeSart
- Office: CB 203A
- Telephone: 801-863-6314

In keeping with the University's mission, the History and Political Science department is dedicated to providing students with a broad range of opportunities and experiences in general-education and discipline-specific courses in history and political science. Classes are taught in ways that foster critical thinking and analysis of complex issues and materials

through lecture, reading, class discussion, and the development of written- and oral-presentation skills. The History and Political Science department strives to provide a reflective, multicultural, and international perspective.

Integrated Studies

- **Department Chair:** Wayne Hanewicz
- Office: CB 311H
- Telephone: 801-863-6343

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests who want to develop skills that are relevant to a variety of careers. Students integrate course work in emphases such as science, business, health, literature, languages, communication, philosophy, behavioral science, social science and the arts. Emphases from computer science and information systems, accounting, technology and trades and physical education are also offered as part of this degree. <http://www.uvu.edu/is/>

Interdisciplinary Studies Program

- **Director:** John Goshert
- Office: CB 410f
- Telephone: 801-863-6288
-

Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus as well as in wider intellectual and social communities. IDST coordinates existing multidisciplinary minor and emphasis programs and provides guidance and support as new programs are envisioned and established. IDST programs promote instructional excellence and offer a variety of courses and events that enhance the overall academic experience at Utah Valley University.

Languages and Cultures

- **Department Chair:** Sara Ulloa
- Office: CB 306b
- Telephone: 801-863-6257

The Department of Languages and Cultures promotes global awareness, intercultural understanding and international insights by providing instruction in eight languages (American Sign Language, Chinese, French, German, Japanese, Portuguese, Russian and Spanish). The lower division courses (1000-2000 level) fulfill Associate in Arts and Bachelor of Arts program requirements; the upper division courses (3000-4000 level) apply to degree program requirements, including the Deaf Studies, ASL and Deaf Studies Education, Spanish and Spanish Education degrees, the Integrated Studies degree (emphasis in ASL, French or Spanish), and the minors in Deaf Studies, Chinese Language, French, German, Languages, Portuguese and Spanish. Language instruction is enhanced by excellent, caring instructors who are supported by a multimedia language lab focused on cutting-edge technology in the delivery of instruction and on talented, caring tutors who act as extensions to the classroom teacher by helping students understand and practice the grammar and vocabulary taught within class.

Philosophy & Humanities

- **Department Chair:** Leslie Simon
- Office: CB 507b
- Telephone: 801-863-8128

The Department of Philosophy and Humanities provides critical study of the creative and intellectual underpinnings of the liberal arts curriculum that connects students to the past, present and future. Students will understand and be able to apply foundational philosophical concepts in all major disciplines, including concepts from multicultural, historical, artistic and values-conscious belief systems. The department is dedicated to enhancing critical thinking and writing skills to support student occupational and academic endeavors.

College of Science

The College of Science builds the scientific economy and scientific literacy of the Wasatch Front region and beyond. We carry out this mission by offering academic degrees, certificates, and courses, including service and general education course, and opportunities for collaborative research by students and faculty, in an atmosphere which encourages innovation and which creates opportunities for students, faculty, staff, and other stakeholders to attain their personal and professional goals.

- **Dean:** Daniel Fairbanks
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- **Administrative Support:** Kiera Davis
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- Email: Kiera.Davis@uvu.edu
- **Assistant to Dean:** Kerri Howlett
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- Telephone: 801-863-8980
- Email: KHowlett@uvu.edu

Colleges and Schools

- **Associate Dean:** Danny Horns
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- Telephone: 801-863-8582
- Email: hornsda@uvu.edu

- **Associate Dean:** Jason V. Slack
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- **Assistant Dean:** Jim Murphy
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- **Director of IT:** Tony Nwabuba
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- **Advisor Manager:** Kristine Farnsworth
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Degrees Offered

Bachelor of Science

Biology
Biology Education
Biotechnology
Botany
Chemistry

- Forensic Chemistry
- Professional Chemistry
- Chemistry Education

Earth Science

- Environmental Management
- Geology

Earth Science Education

Exercise Science and Outdoor Recreation

- Exercise Science
- Outdoor Recreation Management
- Physical Education Teacher Education

Geography

Mathematics

- Actuarial Science
- Applied Mathematics
- Mathematics

Mathematics Education

Physics
Physics Education

Associate in Arts/Science

Biology
Exercise Science and Outdoor Recreation
Mathematics
Physical Science

Graduate Certificate

Mathematics

Certificate of Completion

Water and Wastewater Operations

Certificate of Proficiency

Geographic Information Systems

Minor

Biology
 Chemistry
 Earth Science
 Geography
 Mathematics
 Outdoor Recreation
 Physical Education
 Physics

Programs

Biology

- **Department Chair:** James Price
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- Telephone: 801-863-7447
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- **Administrative Support:** Alana Korstanje
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Biology is a highly versatile degree, thanks to the variety of career paths open to Biology graduates. In addition to standard career options (healthcare, biotechnology, agriculture, education and environmental science) some biology graduates find employment in fields as diverse as scientific illustrator, public relations, governmental agencies, and non-profit organizations. With additional education, majors can go onto careers in law (medical/biotechnology patent attorney, forensic scientist), business (healthcare and agricultural industry management), engineering (biomechanical device development), and even aerospace. A degree in Biology can provide for career opportunities as limitless and evolving as life itself

Chemistry

- **Department Chair:** Fern Caka
- Office: PS 230
- Telephone: 801-863-8581
- Email: FernC@uvu.edu
- **Administrative Support:** Kellie Hancock
- Office: PS Reception
- Telephone: 801-863-6295
- Email: hancock@uvu.edu

Chemists study the properties and reactions of matter. Chemistry bridges physics and materials science, the biological sciences, medicine, and earth and planetary sciences. Chemistry is a fundamental driver in the business and commerce sector of our society. Careers in chemistry are not only personally fulfilling; they enable individual contribution to society and the economy. Many chemistry graduates continue their studies with graduate work in various fields of chemistry, dental school, pharmacy school, and medical school.

Earth Science

- **Department Chair:** Michael Bunds
- Office: PS 218
- Telephone: 801-863-6306
- Email: Michael.Bunds@uvu.edu
- **Administrative Support:** Brandi Pacchiega
- Office: PS Reception
- Telephone: 801-863-6964
- Email: Bpacchiega@uvu.edu
- **Program Director, Environmental Management:** Jim Callison
- Office: PS 216
- Telephone: 801-863-8679
- Email: JCallison@uvu.edu

Earth Science degrees prepare students for careers, such as development and management of natural resources, treatment of drinking water, mitigation of geologic hazards, work with geographical information systems, education, and basic scientific research. Our programs emphasize hands-on opportunities for students through local and international

Colleges and Schools

research and service projects; our department is at the forefront of involving students in meaningful research projects that take them beyond the classroom. The tools our students learn to utilize are as diverse as career opportunities that await them, ranging from hand-held compasses to survey-grade GPS equipment and cutting-edge geochemical analytical device. Many UVU Earth Science graduates enter the workforce directly after graduation, other pursue graduate studies; some find jobs that allow them to spend many hours in the outdoors, other find their niche in an office environment. Many students pursue graduate programs in geology, environmental science, and law.

Exercise Science & Outdoor Recreation

- **Department Chair:** Mike Bohne
- Office: BL147k
- Telephone: 801-863-8439
- Email: Michael.Bohne@uvu.edu
- **Administrative Support:** Corrin Doyl
- Office: BL 147
- Telephone: 801-863-6318
- Email: CDoyl@uvu.edu

Our courses and degree programs in Exercise Science, Outdoor Recreation, and PE Teacher Education balance theory with application. Our Exercise Science degrees prepare students for careers such as wellness coaching, cardiac rehab, and personal training. The Outdoor Recreation program prepares students for jobs with the U.S. Forest Service, the Utah Department of Natural Resources, and the U.S. Bureau of Land Management. The Physical Education Teacher Education degree prepares students to be PE teachers in grades K-12. Our Exercise Science degrees also qualify students to continue their education in many different graduate programs. Graduates have gone on to M.S. and Ph.D. programs in sports administration, kinesiology, biomechanics, sport nutrition, exercise physiology, biomechanical engineering, and pathokinesiology. Additionally, many students go on to excel in health-professions graduate program such as medical, dental, and pharmacy, physical therapy, occupational therapy, prosthetics or orthotics programs. Graduates from Exercise Science & Outdoor Recreation play an important role in the promotion of physical activity, recreation, fitness, health, wellness, and general quality of life.

Mathematics

- **Department Chair:** Bob Palais
- Office: LA 121g
- Telephone: 801-863-5412
- Email: Bob.Palais@uvu.edu
- **Administrative Support:** Celena Patten
- Office: LA 109
- Telephone: 801-863-8650
- Email: pattence@uvu.edu

Mathematics degrees can lead to a wide variety of careers: accounting, actuarial work, architecture, bioinformatics, climate science, computational biochemistry, computer animation, cryptanalysis, economics, education, aerospace, civil, electrical, environmental or mechanical engineering, forensic analysis, geographic information systems, health care, law, meteorology, robotics, population ecology, quantitative financial analysis, software engineering, and many more. In addition to these direct career applications, an understanding of mathematics facilitates careful reasoning, deep understanding, and creative thinking. Mathematical principles are used to develop, analyze, and optimize models in science and technology. A math degree can boost success in any discipline.

Physics

- **Department Chair:** Phil Matheson
- Office: PS 207
- Telephone: 801-863-7161
- Email: Phil.Matheson@uvu.edu
- **Administrative Support:** Brandi Pacchiega
- Office: PS Reception
- Telephone: 801-863-6964
- Email: BPacchiega@uvu.edu

Physics is the set of ground rules which are used to explore the universe and improve society through the understanding of nature and the application of that understanding of new invention. The knowledge necessary to advance electronics, energy, transportation, and computer technologies is often first found in a physics lab and later becomes exploited by engineers. Today's physicists are also very active in biology and medicine, using advanced methods to probe the working of life, and to turn the engines of physics to the imaging and treatment of illness in the human body. Physicists also continue their fundamental role as explorers of the frontiers of our existence, exploring the structure and rules of all that goes on around us, whether that be in the infinitesimal realm inhabited by the Higgs Boson or in the nearly infinite space of our dark-energy dominated universe itself.

Other Academic Programs

Occasionally, academic programs span all or several of the colleges or schools of the University. These programs often have an interdisciplinary aspect to them. They are enhancements to and enrichments of other existing programs explained within the colleges or schools and departments in other descriptions in this catalog.

The interdisciplinary programs at UVU provide students with rich and varied opportunities to engage in study and research that address complex problems by drawing on multiple disciplinary tools.

UVU offers several curriculum-spanning opportunities for students to explore interdisciplinary relationships.

The Leadership Certification Program brings together students who are interested in strengthening their leadership skills, no matter what their major.

The Center for the Study of Ethics provides opportunities for students to think more deeply about the ethical dimensions of contemporary life.

The Honors Program works with a number of departments and colleges and schools on campus to prepare students for graduate or professional schools, among other futures, through interdisciplinary research, internship, field, and experiential learning opportunities.

The Integrated Studies Program allows students to engage in cross-disciplinary research that can culminate in an associate and/or bachelor degree.

The Interdisciplinary Studies Program offers nine stand-alone minors, in topic-specific areas with curricula drawn from various departments.

Interdisciplinary programs at UVU offer innovative learning experiences that challenge, teach, and prepare student for successful lives and careers after graduation.

For more information, please see individual department pages.

See below for more detail on interdisciplinary or cross-discipline programs and opportunities.

- **Senior Vice President for Academic Affairs:** Jeff Olson
- Office: BA 216d
- Telephone: 801-863-8951
- Email: jolson@uvu.edu

The Center for the Advancement of Leadership

- **Director:** Belinda S. Han
- Office: LC 302
- Telephone: 801-863-6465
- Email: cal@uvu.edu

Leadership Certification Program

The Center for the Advancement of Leadership (CAL) has designed an extra-curricular Engaged Learning University Distinction in Leadership for any and all students on the UVU Campus. Whether majoring in business, engineering, law, emergency services, biology, aviation, or any other degree or program, this Engaged Learning Distinction is designed for students who wish to advance their personal, interpersonal, organizational and/or civic leadership skills while pursuing their degrees and programs – making them more productive and marketable to their future employers and/or graduate or professional schools.

All students are invited to preview the program by visiting our website at uvu.edu/leadership, attending our monthly Master Mind Meeting the first Monday of each month, visiting our office in LC 302, or calling (801-863-6466).

Leadership Certification Structure

The Engaged Learning University Distinction in Leadership focuses on four key aspects of personal development: Learn, Engage, Acquire, and Discover. Together, these four aspects ensure leadership growth concurrently in both the personal and professional arenas.

The Engaged Learning University Distinction in Leadership is a two year program.

- **Advisory Board:**
- TJ Fund, (Current Board Chair) General Counsel, OpenEdge ; Lieutenant Colonel Hank McIntire, Communications Professor, UVU; David Reeves, Imagine Learning; Kelly Johnson, Branch Manager at Bank of Utah; Ron Hinckley, President (retired) Research/Strategy/Management, Inc.; Kelly A. Clark, Higher Education; Jay Fugal, Global Operations Manager of Profire Energy Inc.; Erika Bult, English Teacher; Steve Mullins, Human Resources Senior Manager, Profire Energy Inc.; Kathy Rowe, Managing Partner, Rowe Financial Advisors; Adam Bailey, Vice President of Sales Operations, North Star; Simon Cantarero, General Counsel for Costa Vida Management, LLC; Alan Walker, CAL Student President

Center for the Study of Ethics

- **Director:** Brian D. Birch
- **Associate Director:** Courtney Davis
- **Coordinator:** Susanna Garcia
- Office: CB 411
- Telephone: 801-863-5455
- Email: ethics@uvu.edu
- Web: uvu.edu/ethics

The Center for the Study of Ethics (CSE) supports and facilitates the interdisciplinary study of ethics. This includes traditional moral philosophy and the integration of theory and practice across the disciplines and professions. Center activities include public forums, co-curricular support of faculty and student scholarship, and community engagement activities.

Colleges and Schools

Because an educated citizenry is necessary for democracy, the study of interdisciplinary ethics aids individuals in moral decision-making relevant to professional, private, and public life. While CSE programming addresses a range of challenging ethical and public policy issues, the CSE is a non-advocacy center designed to promote academic achievement and community dialogue.

Regular events include Ethics Awareness Week, the Environmental Ethics Symposium, the Faculty Summer Seminar. The CSE also hosts a variety of customized forums in response to student interest and contemporary events.

The organizational structure of the CSE is comprised of an Executive Committee, the Community Advisory Board, and the Faculty Advisory Committee.

Ethics forums are free and open to the public.

Honors Program

- Main Office: LC 204
- Telephone: 801-863-6262
- Fax: 801-863-6562
- Web: uvu.edu/honors

- **Faculty Director:** Kathryn McPherson
- Office: LC 204a
- Telephone: 801-863-8055
- Email: kmcpherson@uvu.edu

The UVU Honors Program seeks out highly motivated and diverse students who exhibit curiosity, creativity, passion, initiative, and flexible thinking. Admitted students receive specialized academic and social opportunities beyond the typical collegiate experience. We promote student success through intensive advising, inclusive experiences, classes with outstanding faculty, and sustained peer-group interactions during cultural events, outdoor adventures, and research endeavors. Through imaginative and intellectual engagement, Honors students build on their personal, professional, and civic potential.

Eligibility

We encourage any student with curiosity, talent, and drive apply for admission to the Honors Program through a competitive application process that assesses them holistically based in part on two short admissions essays. There is no minimum GPA or test score required to be admitted. We welcome and support students from all backgrounds seeking any face-to-face baccalaureate or associates degree.

Honors students also experience extensive mentoring by faculty while researching and completing a year-long Honors thesis or project, leaving students well-positioned to succeed in applications to competitive graduate and professional schools. Close interaction with faculty in small Honors courses also fosters opportunities for students' career and professional development. Graduate school and employment applications are enhanced by the numerous research, field, and experiential learning opportunities facilitated by the Honors Program.

To earn Honors Program distinction on the transcript and diploma and to wear our regalia, students must complete between 20 and 31 credits of Honors level coursework based on their completed credits at the time of admission. An overall GPA of at least 3.40 must be attained to qualify for the Honors Program Graduate distinction.

Unique in Utah, the Honors Colloquium is a 1-credit course that includes cohort building activities emphasizing cultural, outdoor, and academic activities. These include trips to the Utah Symphony, Utah Opera, guest lecturers from the academic and professional communities, outdoor recreation activities, reading groups, and community or campus service projects. The Colloquium syllabus is available each Fall and Spring semester in the Honors Office (LC 204) or in electronic form from the Faculty Director and Program Coordinators.

The Honors Program also offers access to merit-based tuition scholarships to Utah residents, as well as access to competitive housing scholarships that is available to both resident and non-resident students. Application to the program and for these scholarships occurs each October for Spring semester and each January for Fall semester.

Integrated Studies

- **Department Chair:** Wayne Hanewicz
- Office: CB 311h
- Telephone: 801-863-6343
- Email: hanewiwa@uvu.edu

- **Administrative Support:** Mark Olson
- Office: CB 311c
- Telephone: 801-863-5888
- Email: mark.olson@uvu.edu

- **Advisor:** Lynne Hetzel
- Office: CB 506d
- Telephone: 801-863-6485
- Email: ADVISING@uvu.edu
- Appointments: 801-863-8455

Integrated Studies Degrees

- Bachelor of Arts

- Bachelor of Science
- Associate in Arts
- Associate in Science

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, creative writing, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and exercise science are also offered as part of this degree. For more information, please visit the Integrated Studies website at uvu.edu/is.

Interdisciplinary Studies Program

- **Director:** John C. Goshert
- Office: LA 114g
- Telephone: 801-863-6288
- Email: goshjerjo@uvu.edu
- Fax: 801-863-6255
- **Advisor:** Erin Donahoe-Rankin
- Office: CB 506h
- Telephone: 801-863-6717
- Email: donahoer@uvu.edu

Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus as well as in wider intellectual and social communities. IDST coordinates existing multidisciplinary minor and emphasis programs and provides guidance and support as new programs are envisioned and established. IDST programs promote instructional excellence and offer a variety of courses and events that enhance the overall academic experience at Utah Valley University.

Interdisciplinary Minor Programs

- American Indian Studies
- American Studies*
- Chinese Commerce
- Chinese Studies
- Cinema Studies*
- Classical Studies*
- Deaf Studies
- Environmental Studies*
- Gender Studies
- Peace and Justice Studies
- Religious Studies*
- Russian Studies

An asterisk denotes that an Integrated Studies emphasis is available.

School of Education

The School of Education prepares competent, caring and qualified individuals who are ready to assume the role of teacher in elementary and secondary schools, as well as prepare them for further career choices and advancement. The professional program provides essential coursework and experiences to support students as they progress toward becoming professional educators. Students are engaged in research-based and standards-based instruction in content and pedagogy. Candidates are expected to plan, instruct, and assess in a manner that meets curriculum, school and district goals as well as the diverse instructional and experiential needs of all students. Candidates reflect on their own practice and performance, analyze progress, and make choices for future professional growth. In the Master's program, new knowledge is put into practice in students' own classrooms. Graduates acquire knowledge, skills, and dispositions to positively impact their classroom, school, and community as they continue on the journey of life-long learning.

- **Dean:** Parker Fawson
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- Email: Parker.Fawson@uvu.edu
- **Administrative Contact:** Wendy Oldroyd
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- Telephone: 801-863-8146
- Email: Wendy.Fletcher@uvu.edu
- **Assistant to Dean:** Wendi Hillman
- Office: ME 117c
- Telephone: 801-863-6543
- Email: Wendi.Hillman@uvu.edu

Colleges and Schools

- **Associate Dean:** Stan Harward
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- Telephone: 801-863-6571
- Email: Stan.Harward@uvu.edu
- **Assistant Dean:** Vessela Ilieva
- Office ME 116c
- Telephone: 801-863-5183
- Email: vessela.ilieva@uvu.edu

Degrees Offered

Master of Education

- Applied Behavioral Analysis
- Educational Technology
- Elementary Mathematics
- Elementary STEM
- English as a Second Language
- Reading I
- Secondary Teaching
- Teacher Leadership

Bachelor of Science

Elementary Education
Special Education

Associate in Arts/Science

Early Childhood Education
Pre-Elementary Education

Certificate of Completion

Early Care and Education

Certificate of Proficiency

Secondary Teaching

Licenses Offered

Elementary Education (K-6)
Secondary Education (6-12)

- Art Education
- ASL and Deaf Studies Education
- Biology Education
- Business/Marketing Education
- Chemistry/Physics Education
- Dance Education
- Earth Science Education
- English Education
- History Education
- Mathematics Education
- Music Education
- Physical Education Teacher Education
- School Health Education
- Spanish Education
- Theatre Arts Education

Partner Districts

- Alpine School District
- Canyons School District
- Granite School District
- Jordan School District
- Nebo School District
- North Summit School District
- Park City School District
- Provo School District

- South Summit School District
- Wasatch School District

Programs

Elementary Education

- **Department Chair:** Elaine Tuft
- Office: ME 116d
- Telephone: 801-863-6720
- **Administrative Support:** Connie Wright
- Office: ME 116
- Telephone: 801-863-8228
- **Field Coordinator:** Paul Rasband
- Office: ME 131c
- Telephone: 801-863-6580
- **Administrative Support, Advisement Center:** Kay Lynn Palmer
- Office: ME 114
- Telephone: 801-863-8478
- **Advisors:**
 - Shaunna Requilman, Academic Advising Manager
 - Office: ME 114d
 - Telephone: 801-863-8478
 - Leslie Hudson
 - Office: ME 114f
 - Telephone: 801-863-8478
 - Raegan Erickson
 - Office: ME 114a
 - Telephone: 801-863-8478

Secondary Education

- **Department Chair:** Bryan Waite
- Office: ME 116b
- Telephone: 801-863-6721
- **Administrative Support:** Connie Wright
- Office: ME 116
- Telephone: 801-863-8228
- **Field Coordinator:** John Burton
- Office: ME 131b
- Telephone: 801-863-6587
- **Advisor:** Kim Fale
- Office: ME 114b
- Telephone: 801-863-5184

Graduate Studies

- **Coordinator:** Mary Sowder
- Office: ME 116c
- Telephone: 801-863-6723
- **Advisor:** Kim Fale
- Office: ME 114b
- Telephone: 801-863-5184
- **Graduate Assistant:** John Allan
- Office: ME 101b
- Telephone: 801-863-7614

Melisa Nellesen Center for Autism

- **Director:** Teresa Cardon
- Office: NB 215
- Telephone: 801-863-5517

School of the Arts

- **Dean:** Stephen Pullen
- Office: GT 605a
- Telephone: 801-863-6820
- Email: Spullen@uvu.edu

- **Administrative Support:** Jennifer McCole
- Office: GT 605
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- **Associate Dean, Academics:** Jim Godfrey
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- **Assistant Dean, Administration:** E. Linda Moore
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- Email: Linda.Moore@uvu.edu

- **Assistant Dean, Advancement:** Kevin Goertzen
- Office: GT 604
- Telephone: 801-863-5760
- Email: KevinG@uvu.edu

- **Manager, Academic Advising and Student Success:** Elizabeth Draper
- Office: CS 637
- Telephone: 801-863-5397
- Email: elizabeth.draper@uvu.edu

Degrees Offered

Bachelor of Fine Arts

Art and Design

- Graphic Design
- Illustration
- Painting/Drawing
- Photography
- Sculpture/Ceramics

Dance

- Ballet
- Modern Dance

Theatre Arts

- Acting
- Musical Theatre
- Theatre Design and Production

Bachelor of Music

Commercial Music
Performance

Bachelor of Arts/Science

Art and Design
Art Education
Art History
Dance

- Ballroom Dance

Dance Education
 Music
 Music Education
 Theatre Arts
 Theatre Arts Education

Integrated Studies

- Art History
- Graphic Design
- Music
- Photography
- Theatre Arts

Associate in Arts/Science

Art and Design
 Dance
 Music
 Theatre Arts

Associate in Applied Science

Art and Design

- Design/Illustration
- Graphic Design
- Photography

Certificate of Completion

Art and Design

Certificate of Proficiency

Music Technology

Minor

Art History
 Music
 Theatre Arts

Programs

Art & Design

- **Department Chair:** Courtney Davis
- Office: GT 535a
- Telephone: 801-863-8118

The Department of Art and Design prepares students for careers in applied arts, fine arts, and art education. Training is provided for both 2-dimensional and 3-dimensional art in a variety of media. Professional training is provided in the areas of graphic design, illustration, photography, painting/drawing and sculpture/ceramics through the BFA degree. The BFA degree is a competitive program for those with above average abilities in art and requires students to specialize in one of the aforementioned areas. The BS/BA degrees are general degrees that allow students to study various aspects of art and visual communications and are open to all. The Bachelor of Science in Art Education helps prepare students to teach in secondary schools. Some of our 1000 level courses also fulfill general education requirements.

Dance

- **Department Chair:** Doris Trujillo
- Office: LA 022d
- Telephone: 801-863-8610

The mission of Utah Valley University Department of Dance is to foster academic and artistic excellence through an intensive technical and reflective study of dance. Anchored in a common core curriculum with several areas of emphasis, our program provides a rich and stimulating environment where students cultivate their technical, aesthetic, creative, and scholarly potential. We value superior teaching which promotes dance as an artistic and cultural expression that has the power to enrich and transform the individual, community, and society.

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. A variety of student, pre-professional and professional companies within the department provide excellent local, national and international performing opportunities for students in formal and informal as well as, adjudicated settings. Membership in companies is by audition only.

Colleges and Schools

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), performers, choreographers, dance historians and critics, administrators, dance therapists and professionals in the field of somatics, private studio owners, health and fitness consultants, researchers, notators and movement analysts.

Music

- **Department Chair:** Donna Fairbanks
- Office: GT 332
- Telephone: 801-863-8534

The Department of Music promotes student success through innovative programs that enhance creativity, hone performance expertise, and sustain high standards of excellence. Our professional faculty provide learning opportunities essential to the competency of music students as they prepare for a global marketplace. The department engages diverse audiences through performances and activities representing an array of musical styles and traditions.

Our objectives are to:

1. Provide nationally-competitive academic programs and general studies in music.
2. Promote an inclusive environment that provides students with resources that support their educational and professional needs.
3. Engage audiences with performances that reflect diverse musical styles and traditions.
4. Promote opportunities for students and faculty to explore their highest professional potential through creative and innovative activities on- and off-campus.

Theatrical Arts for Stage & Screen

- **Department Chair:** Lisa Hall Hagen
- Office: FA 325
- Telephone: 801-863-6272

The Department of Theatrical Arts for Stage and Screen offers programs of study leading to the Associate in Science degree, to the Associate in Applied Science degree, and to three baccalaureate degrees – Bachelor of Arts, Bachelor of Science in Theatre Arts Education, and the Bachelor of Fine Arts in Theatre Arts. The Department provides cultural experiences and undergraduate instruction in theatre and film for the individual theatre major, the UVU student community, and the community at large, preparing students not only for continued education and employment, but also for lifelong learning, personal fulfillment, and culturally active citizenship.

The Department mounts four to six productions per year encompassing a rich variety of genres and time periods. Students work side-by-side with faculty whose combined professional theatre experience and academic credentials enrich coursework in performance, script analysis, script writing, directing, theatre history and literature, theatre management, and in design for lighting, sound, scenery, costumes, and makeup. Productions are often selected for showcasing in the Kennedy Center American College Theatre Festival, where students also compete for scholarships and professional employment.

Smaller student cohorts make it possible for the vast majority of student performers to be on stage in any given school year and for aspiring technicians and designers to be involved in the production process early in their college careers. The annual Short Attention-Span Theatre Festival features student-written, -directed, -designed, and -performed productions.

The Department, working in relationship with the Sundance Resort, produces the Sundance Summer Theatre every July and August. Students are given opportunities to perform, design, build, and stage manage these semi-professional productions.

The Department also manages a Theatre Study Abroad program, where 10-15 students spend four weeks living and studying theatre in London. Students also produce a performance piece that travels to and performs at the Edinburgh Fringe Theatre Festival.

Woodbury Art Museum

- **Director:** Lisa Anderson
- Office: University Place, N250
- Telephone: 801-863-4200

The Woodbury Art Museum serves as a catalyst in engaging our community in aesthetic investigation and cultural awareness. The museum collects, preserves, and exhibits art and related materials, focusing on modern and contemporary artistic styles. These exhibitions, programs, and collections stimulate research and serve as a valuable resource in our academic setting as well as in the community.

The Woodbury Art Museum provides free exhibitions and programs for local communities. Showcasing the museum's Permanent Collection and rotating exhibitions, the museum has been presenting the visual arts since 2002. We are located on the second floor of the University Place. The Woodbury Art Museum exists out of the generosity of Orrin and Wally Woodbury.

Utah Valley University Arts Resource Council

- **Contact:** Kevin Goertzen
- Office: GT 604
- Telephone: 801-863-5760
- Email: KevinG@uvu.edu

The Utah Valley University Arts Resource Council is an active partner in helping the School of the Arts accomplish many things. Chosen for their demonstrated leadership and accomplishments in the arts, business and/or community service, Council members provide valuable counsel and assistance in the areas of creative and scholarly activity,

development, fund raising, and increasing awareness in the community. Success in these focus areas contributes significantly to the students and faculty of the School of the Arts and allows the School to more fully enrich the community.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of academic achievement and challenges them with higher expectations. The programs and departments of Literacies & Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, Writing Center, Academic Tutoring, Math Lab, and First Year Experience & Student Retention promote interdisciplinary partnerships as students transition into university academics.

- **Dean:** Forrest Williams
- Office: LA 210c
- Telephone: 801-863-8494
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- **Administrative Support:** Beth Winkler
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- Email: beth.winkler@uvu.edu

- **Associate Dean:** Deborah Marrott
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- Telephone: 801-863-8823
- Email: marrottde@uvu.edu

- **Assistant Dean:** Jessica Awtrey
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- Telephone: 801-863-6766
- Email: jessica.awtrey@uvu.edu

Degrees Offered

Associate in Arts/Science

[University Studies](#)

Bachelor of Arts/Science

[University Studies](#)

Certificate of Proficiency

[Leadership for Personal and Social Impact](#)

Programs

University College values student-centered learning and focuses on assisting students exploring the direction of their academic careers, seeking flexibility in degree choices, or undertaking an enhanced college experience.

Developmental Mathematics

- **Department Chair:** Evelyn Porter
- Office: LA 217b
- Telephone: 801-863-6836
- Email: porterev@uvu.edu
- Web: www.uvu.edu/devmath

- **Administrative Support:** Trina Anderson
- Office: LA 217n
- Telephone: 801-863-6570
- Email: TrinaM@uvu.edu

- **Assistant Chair:** Lindsey Gerber
- Office: LA 217c
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- Email: Lindsey.Gerber@uvu.edu

Colleges and Schools

- **Evening Coordinator:** TBA
- Office: LA 221c
- Telephone: 801-863-5829
- Email:
- **Advisors:**
 - Brad Roundy
 - Office: LC 402f
 - Telephone: 801-863-5829
 - Email: brad.roundy@uvu.edu
- Janiece Seegmiller
- Office: LC 402g
- Telephone: 801-863-6726
- Email: janieces@uvu.edu

The courses offered by the Department of Developmental Mathematics are instrumental in providing a foundation not only for higher level math courses, but also for civic, professional, and personal life. The Department provides an inclusive, engaged learning environment fostering student achievement while improving quantitative literacy. The Department of Developmental Mathematics offers MAT 1000, MAT 1010, MAT 1030, and MAT 1035 as transferable, college credit classes. MAT 1000 and MAT 1010 are also offered as prerequisites for MAT 1030, STAT 1040, MATH 1050, and MATH 1090. The Department of Developmental Mathematics also offers preparatory, non-transferable courses for students who need to strengthen mathematics skills before entering credit-bearing courses.

English Language Learning

- **Department Chair:** Brian MacKay
- Office: LA 209d
- Telephone: 801-863-6558
- Email: Brian.Mackay@uvu.edu
- Web: www.uvu.edu/ell
- **Coordinator, Student & Faculty Services:** Gayla Amosa
- Office: LA 209f
- Telephone: 801-863-8729
- Email: gayla.amosa@uvu.edu
- **Operations Coordinator:** Elizabeth Nield
- Office: LA 209c
- Telephone: 801-863-6865
- Email: elizabethn@uvu.edu

The mission of the intensive English language program at UVU is to help non-native English-speaking students to understand and successfully use academic English at an American university. To accomplish this goal, our faculty and coursework provide a broad range of excellent academic and social opportunities. These opportunities help students develop and show proficiency in the skills of reading, writing, grammar, and listening/speaking.

Literacies & Composition

- **Department Chair:** Joshua Hilst
- Office: LA 234f
- Telephone: 801-863-6349
- Email: JHilst@uvu.edu
- Web: www.uvu.edu/litcomp
- **Administrative Support:** Laurie Toro
- Office: LA 234a
- Telephone: 801-863-6387
- Email: ltoro@uvu.edu
- **Academic Advisor:** Chelsea Austin
- Office: LC 404d
- Telephone: 801-863-8596
- Email: Chelsea.Austin@uvu.edu

The Literacies and Composition Department is dedicated to assisting students and community members who wish to improve their reading, writing, and communication skills in preparation for taking college courses or for self-improvement. Instruction in the Literacies & Composition program emphasizes helping students to think critically, comprehend and respond to written texts, analyze and synthesize texts, organize ideas, use logic and support to present oral and written arguments, compose in a variety of electronic environments, and learn the conventions of academic English. The Literacies & Composition Department strives to accomplish its mission by providing a learner-centered environment which allows students to develop self-confidence along with the skills necessary to succeed in their academic or occupational endeavors. The Department uses a variety of instructional formats including traditional classroom settings, hybrid and online instruction, collaborative learning activities, peer and instructor tutorials, and individualized instruction to meet student needs.

Student Leadership & Success Studies

- **Department Chair:** Chris Goslin
- Office: LC 407d
- Telephone: 801-863-8834
- Email: cgoslin@uvu.edu
- Web: www.uvu.edu/slss
- **Administrative Support:** Beth Reid
- Office: LC 407a
- Telephone: 801-863-8834
- Email: ereid@uvu.edu
- **Director, Student Success/UVU Mentor Program:** Mike Jensen
- Office: LC 406a
- Telephone: 801-863-7090
- Email: JENSENMI@uvu.edu
- Web: www.uvu.edu/slss/mentoring
- **Program Manager, UVU Mentor Program:** Angus Macfarlane
- Office: LC 406b
- Telephone: 801-863-5436
- Email:

The mission of the Student Leadership and Success Studies (SLSS) department is to help students acquire the knowledge, skills and abilities needed to meet the challenges of college. Students may choose from a variety of SLSS courses which best fit their academic needs. Our courses help students with the preparation for the demands of college life, the selection/pursuit of major and career paths to graduation, the improvement of time management, stress management, effective library research, and the developing of essential life skills. The SLSS courses prepare students to develop and apply leadership in their lives, facilitating personal and social impact.

Academic Counseling Center

- **Director:** Adam Black
- Office: LC 403c
- Telephone: 801-863-8425
- Email: acadcounseling@uvu.edu
- Web: uvu.edu/acc
- **Assistant Director:** Chad Ostler
- Office: LC 402n
- Telephone: 801-863-6829
- Email: ostlerch@uvu.edu
- **Office Manager:** Kris Swanger
- Office: LC 402
- Telephone: 801-863-8386
- Email: Kris.Swanger@uvu.edu
- **Administrative Support:** Stephanie Vance
- Office: LC 402n
- Telephone: 801-863-6484
- Email: StephanieV@uvu.edu

The Academic Counseling Center (ACC) is committed to meeting the career and academic needs of current and future students, faculty, staff, and community members. Our center is an ideal starting point for undecided students, with many working towards their Associate in Science (AS) or Associate in Arts (AA) degree in University Studies, or those pursuing professional programs requiring formal application such as Law and Medical school. Students also have the option of a Bachelor in Science (BS) and Bachelor of Arts (BA) in University Studies. This provides a flexible option for students in which other degrees may not meet their needs.

Academic Advising & Counseling

Academic counselors are available to assist students in determining and achieving their educational goals. Counselors are qualified to help students select majors and careers, review prior education, and plan educational programs.

The ACC provides advisement for general education requirements and is the advisement center for those majoring in University Studies. Students are referred to departmental advisors for help in meeting their major requirements. Other services provided include assisting students experiencing academic difficulties and enforcing academic standards.

The ACC also has counselors for students seeking admission into Law School, Medical, Dental, Nursing and many other health occupations.

Referrals are made to help students achieve their educational goals. Some of these include referrals to personnel in the Accessibility Services Center, Student Health Services, Testing Services, University Studies, and to academic departmental advisors.

Career Assessment & Counseling

Our counselors provide a full range of career assessment. These services include:

- Career interest/personality testing

Colleges and Schools

- One-on-one career counseling sessions
- Career workshops
- Occupational information
- Use of UtahFutures career and educational software
- Career resource library
- Vocational evaluation services

Academic Standards

- **Director:** Jan Klingman
- Office: LC 402
- Telephone: 801-863-5325
- Email: KLINGMJA@uvu.edu
- Web: uvu.edu/academicstandards
- **Administrative Support:** Cindy Braithwaite
- Office: LC 402
- Telephone: 801-863-8075
- Email: CindyB@uvu.edu
- **Hours:**
- Monday 8 a.m. - 6 p.m.
- Tuesday 8 a.m. - 7 p.m.
- Wednesday 8 a.m. - 7 p.m.
- Thursday 8 a.m. - 7 p.m.
- Friday 8 a.m. - 5 p.m.

The primary mission of the Academic Standards Office at UVU is to promote students' academic success and to assist those experiencing academic difficulty. The work of the Academic Standards Office is to assist students in discovering and accessing the personal or university resources that will allow them to reach their full potential. When students fall below the grade point average standard of 2.0, the programs of the Academic Standards Office are intended to bring them back on course toward academic success and graduation.

Academic Standards will help students find success through:

- Academic Counseling relating to compliance of UVU's Academic Standards Policy
- Academic Warning, Probation, Continued Probation and Suspension
- Referrals to other applicable resources and departments
- One-on-one Academic Counseling and Success Coaching
- Grade check appointments
- MBTI/Strong and StrengthsFinder assessments

Learning Strategies Support

- **Coordinator:** Pat Nelson
- Office: LC 404h
- Telephone: 801-863-7418
- Email: Pat.Nelson@uvu.edu

The Learning Strategies Support Services assists students in developing increased self-awareness of their learning challenges and utilizing resources to create and implement a self-improvement plan to become active and independent learners and to achieve academic success.

Learning Strategies Support provides many resources for students:

- Assistance in developing a personalized program of study processes
- Assessment of learning styles
- Support programs for transitional and provisionally admitted students
- Student success workshops, learning processes education
- Referral to other services and agencies
- Help with ACCUPLACER and ALEKS placement exams
- Academic Success Lending Library
- Common study area
- Private and group tutoring (Losee Tutoring Commons)
- Project Success
- Web: www.uvu.edu/learningstrategies

First-Year Experience & Student Retention

- **First-Year Experience (FYE)**
- Telephone: 801-863-4000

- Email: success@uvu.edu
- Web: www.uvu.edu/retention
- Web: www.uvu.edu/firstyear
- **Director:** Marcy Glassford
- Office: LC 405k
- Telephone: 801-863-7067
- Email: marcyg@uvu.edu
- **Assistant Director, FYE and Orientation:** Martha Wilson
- Office: LC 405k
- Telephone: 801-863-5190
- Email: marthaw@uvu.edu
- **Assistant Director, Retention:** Noemy Medina
- Office: LC 405h
- Telephone: 801-863-7408
- Email: NoemyM@uvu.edu

First-Year Experience and Student Retention (FYESR) administers multiple programs designed to support student success which include Early Alert, Stoplight, and Retention Mentors. FYESR also coordinates UVU's First Year Experience (FYE) program which includes:

- Orientation
- Freshman Reading Program
- Freshman Convocation
- StartSmart
- UVCommit
- Freshman Year-end Celebration

Student Success and UVU Mentor Program

- **Director, UVU Mentor Program:** Mike Jensen
- Office: LC 406a
- Telephone: 801-863-7090
- Email: JENSENMI@uvu.edu
- Web: www.uvu.edu/slss/mentoring
- **Program Manager, UVU Mentor Program:** Angus Macfarlane
- Office: LC 406b
- Telephone: 801-863- 5436
- Email:

The Student Success/UVU Mentor program, in partnership with Student Affairs, focuses on preparing students for their college experience. The program is committed to leveraging students for success and persistence in achieving their academic goals. The program is fully integrated into campus-wide student success and retention initiatives. The University Student Success course (SLSS 1000), taught through the Department of Student Leadership Success Studies, is the recommended starting point for first-year students. The objectives of the University Student Success course include:

- Study Strategies
- Self-Discovery and Awareness
- Socialization and Connection to the campus community

The program is home to the UVU Mentors. Our UVU Mentors are dedicated student leaders who are trained to mentor first-year students and assist instructors in every section of University Student Success. The goals of UVU Mentors are to connect personally to their students by mentoring them and modeling the skills being taught. UVU Mentors are students who are successful in their SLSS 1000 class, who then enroll in the Leadership Mentoring I class (SLSS 2200), and then were selected to serve as peer mentors. UVU Mentors are awarded tuition waivers for their service.

Tutoring Services

Tutoring services are available at no charge to all UVU students. Qualified tutors provide one-on-one tutorials and help lead group study sessions and workshops. Information about tutoring may be obtained by contacting Directors of any of the following services.

Academic Tutoring

Department Administrative Offices: LA 201

- **Director:** Kolene Mills
- Office: LA 221r
- Telephone: 801-863-8356
- Email: kolene.mills@uvu.edu
- Web: www.uvu.edu/academictutoring
- **Coordinator:** Ashlee Poulter

Colleges and Schools

- Office: LA 201k
- Telephone: 801-863-5521
- Email: ashlee.poulter@uvu.edu

Drop in tutoring/study labs at the following locations:

- Science & Health Lab – LA 201
- Business Lab – WB 111
- Computer Science Lab – CS 726
- Technology & Computing Lab – CS 612
- Social Sciences Lab - LA 015

Individual appointments, course review sessions, and Supplemental Instruction are also available. Online tutoring is available by appointment at www.uvu.upswing.io. All services are free.

Math Lab

- **Director:** Nathan James
- Office: LA 221a
- Telephone: 801-863-8411
- Email: nathan.james@uvu.edu
- Web: www.uvu.edu/mathlab
- **Coordinator:** Kristen Hornberger
- Office: LA 201e
- Telephone: 801-863-6879
- Email: Kristen.Hornberger@uvu.edu

The Math Lab provides free drop-in tutoring, classroom support through Supplemental Instruction and Structured Learning Assistance, and access to resources to help students be successful in mathematics. Drop-in tutoring is offered at three main locations on the Orem Campus; West Math Lab (LA 201), East Math Lab (LA 216), and Statistics Lab (LC 301) along with limited hours in the Losee Tutoring Commons and Developmental Mathematics Computer Lab (LA 004). Additionally, tutoring is offered at the Wasatch Campus and limited hours at extended locations at Spanish Fork High School, Westlake High School, and online at <https://uvu.upswing.io/>

Writing Center

Drop-In Lab: FL 208

- **Director:** Leigh Ann Copas
- Office: FL 208b
- Telephone: 801-863-8936
- Email: copasle@uvu.edu
- Web: uvu.edu/writingcenter
- Appointment Scheduler: uvu.mywconline.com
- **Coordinator:** Kelsey Hixson-Bowles
- Office: FL 208a
- Telephone: 801-863-5482
- Email: Kelsey.hixson-bowles@uvu.edu

The Writing Center provides free one-on-one tutoring to all UVU students. Students may bring writing assignments for any class in face-to-face and web conference tutorials. Students can book appointments by registering an account at uvu.mywconline.com. The Center offers free writing workshops, handouts, practice tests, reference books, textbooks, writing manuals, and ESL materials. Graduate student tutoring is also provided. In addition, the Writing Center hosts the Writing Fellows program, a form of supplemental instruction designed to work closely with discipline specific writing courses.

Woodbury School of Business

- **Dean:** Norman S. Wright
- Office: WB 128b
- Telephone: 801-863-8260
- Email: Norman.Wright@uvu.edu
- Fax: 801-863-7314
- **Administrative Support:** Dixie Maughan
- Office: WB 128

- Telephone: 801-863-8260
- Email: dmaughan@uvu.edu
- Fax: 801-863-7314

- **Associate Dean:** Jacob Sybrowsky
- Office: WB 219
- Telephone: 801-863-6458
- Email: Jacob.sybrowsky@uvu.edu
- Fax: 801-863-7314

- **Administrative Support:** Allison Routt
- Office: WB 128
- Telephone: 801-863-5353
- Email: Allison.Routt@uvu.edu
- Fax: 801-863-7314

- **Assistant Dean:** Thomas MacDonald
- Office: WB 146j
- Telephone: 801-863-5425
- Email: TMacdonald@uvu.edu
- Fax: 801-863-7314

- **Assistant Dean:** Mikki O'Connor
- Office: WB 128a
- Telephone: 801-863-8850
- Email: oonnomi@uvu.edu
- Fax: 801-863-7314

- **MBA Program Director:** William Neal
- Office: WB 127b
- Telephone: 801-863-6148
- Email: william.neal@uvu.edu
- Fax: 801-863-7314

- **MBA Academic Director:** Tammy Parker
- Office: WB 146m
- Telephone: 801-863-8367
- Email: tammy.huffman@uvu.edu
- Fax: 801-863-7314

- **MBA Admissions and Marketing Manager:** Matthew Moon
- Office: WB 127a
- Telephone: 801-863-5099
- Email: mmoon@uvu.edu
- Fax: 801-863-7314

- **MBA Admissions Coordinator:** Gina Johnson
- Office: WB 146p
- Telephone: 801-863-7494
- Email: gina.johnson@uvu.edu
- Fax: 801-863-7314

- **MBA Administrative Support:** Monique Roese
- Office: WB 127
- Telephone: 801-863-5504
- Email: moniquer@uvu.edu
- Fax: 801-863-7314

- **MBA Career Development Coordinator:** Ephraim Zamora
- Office: WB 146q
- Telephone: 801-863-8379
- Email: ephraim.zamora@uvu.edu
- Fax: 801-863-7314

- **MBA Academic Advisor:** Terry Smith
- Office: WB 132a
- Telephone: 801-863-8314
- Email: acordte@uvu.edu
- Fax: 801-863-7314

- **MAcc Director:** Joel Helquist
- Office: WB 103
- Telephone: 801-863-8307

Colleges and Schools

- Email: Joel.Helquist@uvu.edu
- Fax: 801-863-7314

- **MAcc Program Manager:** Kaylyn Curtis
- Office: WB 146j
- Telephone: 801-863-8121
- Email: Kaylyn.Curtis@uvu.edu
- Fax: 801-863-7314

- **Professorships:**
- Miles and Mary Morris Professor of Entrepreneurship: Peter Robinson Ph.D.
- Wally R. Woodbury Professor of Economics: Amir Kia, Ph.D.
- Orin R. Woodbury Professor of Leadership and Ethics: Susan Madsen, Ed.D.

Mission Statement

Through exceptional business education, we help students become successful professionals who build our community.
Core Themes - (University Alignment: Student Success, Engagement, Inclusivity, and Seriousness)

1. Delta: Maximize student improvement through engaged learning
2. Placement: Help students obtain and succeed in careers aligned with their goals
3. Scholarship with Impact: Produce and promote research that improves business education and practice
4. Reach: Serve as many people in our community as we can through increased efficiency and inclusive outreach

Accreditation

The Woodbury School of Business was reaccredited with the Association to Advance Collegiate Schools of Business (AACSB) accreditation in fall 2011. AACSB International Business accreditation is an achievement earned only by programs of the highest caliber. Institutions that earn accreditation confirm their commitment to quality and continuous improvement through a rigorous and comprehensive peer review.

Advisement Center

The Woodbury School of Business Advisement Center provides one-on-one advising throughout a student's program. Information regarding transfer programs is readily available by contacting departmental advisors in WB 257 of the Woodbury Business Building. Each student should make an appointment to see a Woodbury School of Business advisor early in his/her first semester on campus.

- **Advisors:**
 - Scott Childs
 - Office: WB 257d
 - Telephone: 801-863-6719
 - Email: childssc@uvu.edu

 - Polly Clauson, Manager
 - Office: WB 257b
 - Telephone: 801-863-6482
 - Email: Polly.Clauson@uvu.edu

 - Lisa Giguere
 - Office: WB 257h
 - Telephone: 801-863-6307
 - Email: lisa.giguere@uvu.edu

 - Diana Johnsen
 - Office: WB 257f
 - Telephone: 801-863-8832
 - Email: johnsedi@uvu.edu

 - Clint Martinez
 - Office: WB 257e
 - Telephone: 801-863-5343
 - Email: Martincl@uvu.edu

 - Mignon Nicol
 - Office: WB 257g
 - Telephone: 801-863-8749
 - Email: nicolmi@uvu.edu

 - Tracy Wilson
 - Office: WB 258
 - Telephone: 801-863-6889

- Email: tracy.wilson@uvu
- Kim Wright
- Office: WB 257a
- Telephone: 801-863-6890
- Email: wrightki@uvu.edu

Internships/Career Services

The Woodbury School of Business encourages students to enroll in internship courses once they have matriculated. Completing between three and six credits of internship is required of many degrees in the Woodbury School of Business. An internship combines classroom theory with related, practical job experience. While enrolled at the university, students select a work environment related to their major. Internship experience serves as a resume builder and assists students in launching their careers following graduation.

A coordinator works closely with students and employers to ensure that the internship is a successful career education experience. The Woodbury School of Business Manager of Career and Corporate Development is:

- **Internship Manager:** Jessica McArthur
- Office: WB 146k
- Telephone: 801-863-6243
- Email: jmcarthur@uvu.edu
- Fax: 801-863-7314
- **Coordinator, Career Services:** Bonnie Mortensen
- Office: WB 146r
- Telephone: 801-863-8097
- Email: Bmortensen@uvu.edu

Admission to the Woodbury School of Business

Students choosing to pursue majors in the Woodbury School of Business should decide early, plan their schedules carefully, be aware of all the requirements, and stay informed about any changes by checking often with advisors in the Woodbury School of Business Advisement Center.

Accessibility to the Woodbury School of Business Courses

All 1000- and 2000-level business courses are open to all UVU students along with selected 3000- and 4000-level courses. Some courses have prerequisites, which must be satisfied. No more than 9 credits of upper-division courses can be taken before a student has been formally matriculated into the UVU Woodbury School of Business.

Repeating Failed Foundation Core Courses

Each business major has foundation core courses. A student will be allowed to repeat a failed foundation core course only twice. If the foundation core course is not passed with a minimum grade of "C-" after the third attempt, the student will not be allowed to apply for matriculation toward a degree in one of the Woodbury School of Business majors.

Application Requirements for Matriculation

To be considered for matriculation in a Woodbury School of Business four-year program, a student must do the following:

- Complete the foundation core courses listed for their major with at least a "C-" grade; Legal Studies majors must have a grade of "C+" or higher. A student will be limited in taking upper-division coursework (3000 level or higher) until these foundation courses are completed.
- IM 2010 or IM 2600 and MKTG 2200 require a B- grade.
- Complete matriculation orientation course (CEBU 100).
- Achieve a grade point average (GPA) in business courses of at least a 2.5 and an overall GPA of 2.0.
- Contact a Woodbury School of Business advisor to complete the process.
- The student will be required to complete the program that is in effect at the time (matriculation) is granted. Exceptions will be handled on a case-by-case basis.

Major Specialization of Courses

After matriculation, the student will be required to complete the remaining courses in their major specialization. See your Woodbury School of Business advisor or the appropriate section of the current catalog for requirements for each major specialization.

Maintenance of Matriculation

Once matriculated, the student must maintain the 2.5 business GPA to remain in the Woodbury School of Business. A student falling below the minimum GPA will be placed on probation for one semester. If the business GPA remains below 2.5 for a second semester, matriculation will be revoked. A student who wishes to continue in the Woodbury School of Business major will be required to retake some classes to bring up the business GPA to at least 2.5 and will be required to apply for reinstatement for matriculation.

A student will be allowed to repeat a failed major specialization course only twice. If the course is not passed with a minimum of "C-" after the third attempt ("C+" for Legal Studies majors), the student will be dropped from the Woodbury School of Business program.

Graduation Requirements

Colleges and Schools

A Bachelor of Science degree in a Woodbury School of Business major may be earned upon the completion of four years of full-time (16 credits per semester) university work. The bachelor degree consists of 120 semester credit hours with a minimum of 40 hours upper-division credits. At least 30 of the credit hours earned in the degree must be Woodbury School of Business courses; 10 of these credit hours must be within the last 45 credit hours earned toward completion of the degree. The student pursuing a bachelor degree must also complete the general education requirements. The student must have a 2.5 GPA in Woodbury School of Business courses and a minimum 2.0 GPA overall for graduation.

The Woodbury School of Business reserves the right to change, at any time, the requirements for graduation and every candidate not yet matriculated into a Woodbury School of Business degree will be required to comply with such changes as far as the uncompleted portion of his/her degree is affected. Any exceptions must be approved by the Dean. In addition, courses within degrees may change at any time. Students will be required to complete the revised course requirements even if the changes add credit hours to the original degree.

Whether or not a course is accepted toward degree requirements is determined by the date it was taken and the grade received. For details contact your UVU Woodbury School of Business Advisor or the Woodbury School of Business Assistant Dean.

Credit Policy

1. **Obsolete Credit:** UVU Woodbury School of Business credit or business transfer credit earned more than ten years earlier than the proposed date of graduation (five years for business computer proficiency) may not be accepted toward requirements for graduation unless validated through taking a challenge examination, completing the next course in a related sequence with a grade of "C" or better, or receiving department chair and assistant dean approval.
2. **Waiver/substitution Requests:** Any deviations from the printed UVU Woodbury School of Business graduation requirements must be approved by the appropriate department chair and the assistant dean prior to waiving, substituting, or taking the course(s) in question.
3. **Challenge/Experiential Credit:** Credit for any course that appears in the current catalog may be awarded to individuals who can prove through appropriate assessment and/or documentation that they have already acquired the equivalent knowledge and/or expertise required for successful completion of that course. See your Woodbury School of Business advisor for details on how to receive challenge credit for a specific course. Students may not challenge a class for which they are or have been enrolled. No more than 25 percent of the minimum credits of challenge/experiential may be applied to a bachelor degree in the Woodbury School of Business.
4. **Coop/Internship Credits:** Academic credit for cooperative work experience and/or internship may be granted in associate and bachelor degrees. Check with your Woodbury School of Business advisor for the maximum number of coop/internship credits that can be applied to your specific program. Additional coop/internship credits may be taken (but not applied toward graduation) with the approval of the manager of career and corporate development and the assistant dean.
5. **Transfer Credits:** Students transferring from other colleges or universities within the Utah System of Higher Education (USHE) should consult their Woodbury School of Business advisor to determine which credits will be accepted by UVU. Students wishing to transfer Woodbury School of Business credits from colleges or universities outside the state not covered by the USHE Transfer Credit Guide may need to submit further documentation, which allows the Transfer Office, Woodbury School of Business advisor, department chair, and/or Woodbury School of Business assistant dean to assess the content of courses taken. In the majority of cases, courses taken at institutions accredited by the Association to Advance Collegiate Schools of Business (AACSB) International will be accepted. Only courses with a grade of "C-" or higher are eligible for credit. Classes taken more than 10 years ago may not be accepted but will be evaluated individually.

Application Requirements (Matriculation)

To be considered for matriculation in a Woodbury School of Business four-year program, a student must do the following:

- Complete the foundation core courses listed for their major with at least a "C-" grade; Legal Studies majors must have a grade of "C+" or higher. A student will be limited in taking upper-division coursework (3000 level or higher) until these foundation courses are completed.
- IM 2010 and MKTG 2200 require a B- grade.
- Complete matriculation orientation course (CEBU100)
- Achieve a grade point average (GPA) in business courses of at least a 2.5 and an overall GPA of 2.0.
- Make formal application for (matriculation) through a Woodbury School of Business advisor.
- The student will be required to complete the program that is in effect at the time (matriculation) is granted. Exceptions will be handled on a case-by-case basis.

Maintenance of Matriculation

Once matriculated, the student must maintain the 2.5 business GPA to remain in the Woodbury School of Business. A student falling below the minimum GPA will be placed on probation for one semester. If the business GPA remains below 2.5 for a second semester, matriculation will be revoked. A student who wishes to continue in the Woodbury School of Business major will be required to retake some classes to bring up the business GPA to at least 2.5 and will be required to apply for reinstatement for matriculation.

A student will be allowed to repeat a failed major specialization course only twice. If the course is not passed with a minimum of "C-" after the third attempt ("C+" for Legal Studies majors), the student will be dropped from the Woodbury School of Business program.

Degrees Offered

Master of Accountancy

Master of Business Administration

- Accounting
- Finance
- Management
- Marketing

Bachelor of Arts

Economics

Finance

Human Resource Management

Marketing

Bachelor of Science

Accounting

- General
- Internal Auditing

Business Management

- General Business
- Hospitality Management
- International Business

Digital Marketing

Economics

Entrepreneurship

Finance

Hospitality Management

Human Resource Management

Legal Studies

Marketing

Personal Financial Planning

Associate in Science

Accounting

Business

Hospitality Management

Legal Studies

Woodbury School of Business—transfer degree

Associate in Applied Science

Business Management

Hospitality Management

Legal Studies

Certificate of Completion

Accounting

Business Management

Certificate of Proficiency

Entrepreneurship

Financial Planning

Legal Studies

Operations Management

Professional Sales

Minor

Accounting

Business Management

Economics

Entrepreneurship

Event Planning

Finance

Internal Auditing

Human Resource Management

Legal Studies

Marketing

Business Computer Proficiency

Most of the degrees offered in the Woodbury School of Business require the student to demonstrate business computer proficiency. Students pursuing most bachelor degrees must complete this proficiency requirement before they can matriculate. This proficiency can be attained by completing the Excel Educator course through MyEducator with a score of 80 percent or higher or complete IM 2010 or IM 2600 course with a score of 80 percent or higher. See your Woodbury School of Business advisor for additional details.

Degree Requirements

See the individual departmental sections in the catalog that follow this Woodbury School of Business section for specific requirements on each degree offered by the individual departments.

The Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah, or it can be completed by students seeking a BS degree at UVU.

Colleges and Schools

Programs

Master of Accountancy

Please see [Graduate Studies](#).

Master of Business Administration

Please see [Graduate Studies](#).

Accounting

- **Department Chair:** Kevin Smith
- Office: WB 221
- Telephone: 801-863-8859
- Email: KSmith@uvu.edu

The mission of the Accounting Department is to build a strong learning and growth environment for students to prepare for successful careers in industry, government, and public accounting. We maintain a teaching-focused environment where students can master the fundamental and technical competencies required of professional accountants.

Through our partnering with the business community, students will have opportunities of interactive learning in and out of the classroom. The Accounting Department is committed to assessing current accounting trends and developing specialties within the curriculum to prepare students for careers in those growth fields. Upon completion of an Accounting degree, students should have a combination of skills and abilities including but not limited to leadership, teamwork, communication, analytical reasoning, and lifelong learning.

Finance & Economics

- **Department Chair:** Lowell M. Glenn
- Office: WB 215
- Telephone: 801-863-8385
- Email: Lowell.Glenn@uvu.edu

The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods in making those policy decisions. The classes taught in the Department of Finance and Economics are designed to give students the background to make professional business decisions.

The department offers three bachelor degree programs in Economics, Finance, and Personal Financial Planning (PFP). Graduates in economics find employment in a variety of public and private institutions while many go on to graduate education in law, public policy, an MBA and other disciplines. Finance major's move on to careers in corporate financial management, as investment managers and analysts, in banking and other careers in the finance industry. The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods to make policy decisions. The PFP program is designed to prepare students for professional careers as fee-for-service certified financial planners. Unlike the other two degrees that offer Bachelor of Arts and Sciences as well as minors and emphases in integrated studies, the PFP program is restricted to a single bachelor degree. Students who complete the PFP degree will in many respects emulate the careers of accountants who work with individuals and organizations in the management of wealth, personal resources, and provide other professional functions. The PFP Program is registered with the Certified Financial Planner Board of Standards, Inc. The classes taught in the Department of Finance and Economics are designed to give students the background they need to make professional business decisions.

Experienced faculty work with students in understanding the theory of their discipline and learning to apply that theory in the pragmatic application of those principles in financial management, economics, statistics, and operations management courses critical to their professional development.

Marketing

- **Department Chair:** Paul Dishman
- Office: WB 203e
- Phone: 801-863-7198
- Email: PDishman@uvu.edu

For those trained in marketing, career opportunities are available in advertising, brand and product management, customer affairs, industrial marketing, international marketing, marketing management science and systems analysis, marketing research, new product planning, marketing logistics (physical distribution), public relations, purchasing, retail management, internet marketing, and sales and sales management.

Almost a third of all Americans are employed in marketing-related positions. From large corporations to small companies, both in manufacturing and service areas, firms rely on marketers. There is also a growing trend to use marketing in nonprofit organizations, such as colleges, libraries, and hospitals.

Organizational Leadership

- **Department Chair:** Jeff Peterson
- Office: WB 146w
- Phone: 801-863-8134
- Email: orgldrship@uvu.edu

The Department of Organizational Leadership supports and drives forward the Vision of the Woodbury School of Business (WSB), which is (that) "...(a)s a community-engaged school of business that integrates teaching and scholarship, we aspire to be a school of choice and a leader in student development, entrepreneurship, global involvement, and innovative teaching."

We do this, as do all departments in the WSB, through...

- Quality instruction and student involvement
- Faculty and student scholarship
- Community outreach and engaged learning
- Integration and application of knowledge
- Social, ethical, cultural, and global literacy

Strategic Management and Operations

- **Department Chair:** David McArthur
- Office: WB 243
- Telephone: 801-863-7144
- Email: David.McArthur@uvu.edu

Students graduating from the Department of Strategic Management and Operations have many opportunities in private industry, government, and entrepreneurship fields. Bachelor of Science degrees are offered with emphases in hospitality management, international business, and general business. An Associate in Science degree and an Associate in Applied Science degree are also available.

Faculty in the Department of Strategic Management and Operations have real-world expertise that they bring to the classroom. During their program of study, students serve an internship in business where they receive actual work experience during their training. Graduates of the UVU business management program are well prepared to work in multiple aspects of business or to go on to graduate school for additional education.

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Accounting

Name:	Accounting
Location:	WB 134
Telephone:	801-863-8526
Email:	accounting@uvu.edu
Web Address:	uvu.edu/accounting
Chair:	Kevin Smith

Mission Statement

The mission of the Department of Accounting at Utah Valley University is to build the strongest possible learning and growth environment for students by:

- Maintaining a teaching-focused, engaged learning environment
- Adding value to each student's education by developing essential skills and abilities
- Engaging in scholarly activity among faculty and students
- Assessing current accounting trends and developing specialties
- Partnering with the business community
- Building our reputation within the region

Gainful Employment Disclosure

Students are strongly encouraged to follow a realistic financial plan to ensure that the completion of a higher education degree will reimburse the cost of obtaining the degree. More information can be found at http://www.uvu.edu/financialaid/info/gainful/certificate_accounting/index.html

Program Description

The Department of Accounting offers the following academic programs:

- **Master of Accountancy** trains students for professional-level positions in public accounting, industry, and government and is essential for advancement in many accounting career paths. It fulfills the education requirements to become a Certified Public Accountant (CPA) in Utah.
- **Bachelor of Science – General Accounting Emphasis** prepares students for a wide variety of entry-level accounting positions in business, industry, and government. With additional training support and experience many professional accounting certifications may be obtained with this degree.
- **Bachelor of Science – Internal Auditing Emphasis** is an accounting degree which prepares students to enter the internal auditing profession. With additional training support and experience student may qualify for the Certified Internal Auditor designation offered by the Institute of Internal Auditors.
- **Minor in Accounting** provides education in accounting at the intermediate level. This minor provides financial training for non-accountants who need an understanding of accounting information to support them in their desired employment. Elective courses allow some customization of the minor to the needs of the student.
- **Minor in Internal Auditing** includes basic skills in internal auditing, accounting, and information systems auditing. This minor complements many majors inside and outside of business to create opportunities for entry-level employment in internal auditing in businesses and industries related to the student's major.
- **Associate of Science in Accounting** provides an introduction to accounting and prepares students to move seamlessly into a Bachelor of Science program. This associate degree qualifies students for positions requiring an associate degree and basic training in accounting and supporting subjects.
- **Certificate of Completion in Accounting** which provides an introduction to accounting supported with courses in mathematics, spreadsheets, economics, English, and communication. This certificate prepares students to perform basic accounting tasks and to pursue higher degrees in accounting.

Employment Opportunities

Every organization needs an accountant to navigate financial decisions. Accountants are needed in times of prosperity as well as in times of financial distress; therefore, the opportunities for employment remain strong. Accountants are employed to perform a variety of critical tasks related to businesses and individuals. Areas of employment in accounting include:

- Analysis of economic events, recording financial information, summarizing and reporting financial information, and assisting in decisions based on the financial information presented.
- Auditing, or independent verification of financial and non-financial information, to lend credibility to the information presented.
- Development, analysis, and monitoring of internal controls which assure protection of assets, accuracy of financial reporting, effectiveness and efficiency of operations, and compliance with laws, regulations, and policies.
- Tax consulting for individuals, businesses, and other entities including proper reporting to taxing entities such as state and federal governments.
- Business consulting particularly related to financial decisions and internal controls.

The accounting profession provides employment opportunities and salaries that increase with higher levels of education and professional certifications. It is not uncommon to find accountants becoming the Chief Financial Officer (CFO) or Chief Executive Officer (CEO) of an organization. In addition, accounting can provide flexible careers for those who wish to work part-time.

Accreditation

The Woodbury School of Business (WSB) is accredited by AACSB International, the premier business accrediting organization in the world. Accreditation is a mark of quality programs that live by their mission and provide quality education to their students. Many employers and graduate programs seek students from AACSB accredited programs.

Woodbury School of Business

Advisement Center:

- **Office:** WB 257
- **Telephone:** 801-863-8032

Dean: Norman S. Wright

- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu

DEPARTMENT CHAIR

SMITH, Kevin *Associate Professor*

FACULTY

BAILEY, James *Professor*

BARTHOLOMEW, Aaron *Assistant Professor*

BEAN, Ben *Professor*

BLACK, Katherine D. *Associate Professor*

CIESLEWICZ, Joshua *Associate Professor*

HELQUIST, Joel *Associate Professor*

HENAGE, Richard *Associate Professor*

HOWARD, Carolyn *Associate Professor*

JASPERSON, Jill O. *Associate Professor*

JENNE, Stanley E *Professor*

JOHNSON, Steven D. *Associate Professor*

KARI, Olsen Joseph *Assistant Professor*

ORTEGA, Xiaoli *Assistant Professor*

SMITH, Kevin *Associate Professor*

SMITH, Lynn *Lecturer*

SMITH, Sheldon R. *Professor*

VAN WAGONER, Marty *Professional in Residence*

WITESMAN, J. David P. *Assistant Professor*

Course Descriptions

Accounting..... 569

Degrees & Programs

Accounting, A.S.

Requirements

The Associate in Science degree provides a broad business foundation and prepares students for upper-division studies in accounting. Students receive a broad range of theoretical and applied knowledge in the areas of accounting, economics, business law, and quantitative applications.

Total Program Credits: 63

General Education Requirements:		35 Credits
	ENGL 1010 Introduction to Writing	3
	ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020 Intermediate Writing--Science and Technology	3
	MATH 1050 College Algebra (recommended for Business, Education, Science, and Health Professions majors)	
or	MATH 1055 College Algebra with Preliminaries (5.0)	
or	MATH 1090 College Algebra for Business (recommended for Business majors)	3
or	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher	
Complete one of the following:		3
	HIST 2700 US History to 1877 (3.0)	
and	HIST 2710 US History since 1877 (3.0)	
	HIST 1700 American Civilization (3.0)	
	HIST 1740 US Economic History (3.0)	
	POLS 1000 American Heritage (3.0)	

	POLS 1100 American National Government (3.0)	
Complete the following:		
	PHIL 2050 Ethics and Values	3
	HLTH 1100 Personal Health and Wellness (2.0)	
or	PES 1097 Fitness for Life	2
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution- HUM 1010 recommended	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		28 Credits
	ACC 2010 Financial Accounting (3.0)	
and	ACC 2020 Managerial Accounting (3.0)	
or	ACC 2030 Principles of Accounting	6
	ECON 2020 Macroeconomics	3
	ECON 2010 Microeconomics	3
	LEGL 3000 Business Law	3
	MGMT 2340 Business Statistics I	3
	MATH 1100 Introduction to Calculus	4
	MKTG 2200 Written Business Communication	3
	IM 2600 Spreadsheet Applications	3

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall GPA of 2.0 or above with 2.5 GPA or above in Business courses. No grade below "C-" in Business courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Accounting, A.S.

Careers

Careers:	
With an Associate in Science degree, a student could obtain a basic, entry-level position in a broad range of business-related jobs. These jobs would likely have lower salaries or wages with limited upward mobility as higher-level jobs would require more education.	

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Accounting, Certificate of Completion

Requirements

A certificate of completion introduces students to the knowledge and skills need to perform in a basic business environment. It includes a knowledge of basic business math, accounting, and accounting software. Skills include communication and

Accounting

presentation skills. This is primarily an applied certificate with a brief conceptual background in business.

[Online Degree Plan](#)

Total Program Credits: 31

Discipline Core Requirements:			25 Credits
	ENGL 1010	Introduction to Writing	3
	MATH 1050	College Algebra or An Advanced Placement (AP) Mathematics Test with a score of 3 or higher.	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
	ACC 2010	Financial Accounting (3.0)	3
	ACC 2020	Managerial Accounting (3.0)	3
	IM 2600	Spreadsheet Applications	3
	ECON 2010	Microeconomics	3
	MKTG 2390	Professional Business Presentations	3
	MKTG 2200	Written Business Communication	3
Elective Requirements:			6 Credits
Complete at least 6 credits from the courses below:			6
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
	ECON 2020	Macroeconomics (3.0)	
	MGMT 2240	Business Calculus (3.0)	
or	MATH 1100	Introduction to Calculus (3.0)	
	MGMT 2340	Business Statistics I (3.0)	

Graduation Requirements:

1. Minimum of 31 credits required for a Certificate.
2. Must earn at grade of B- or higher in ACC 2010 and ACC 2020.
3. Overall GPA of 2.0 required for graduation with no grade lower than a "C-" in Woodbury School of Business classes.
4. Residency hours -- minimum of 16 credit hours through course attendance at UVU.

Accounting, Certificate of Completion Careers

Careers:		
A certificate of completion in accounting will prepare a student for a basic, entry-level job in a business office setting.		

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Accounting, Minor

Requirements

A Minor in Accounting will prepare students in any major to speak the language of business. Students will receive extensive coverage of both financial and managerial accounting, with the opportunity to pursue other accounting areas of study including: financial accounting, audit, information systems, or tax.

Total Program Credits: 18

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			12 Credits
	ACC 2010	Financial Accounting (3.0)	3
and	ACC 2020	Managerial Accounting (3.0)	3
	ACC 3010	Intermediate Accounting I	3
	ACC 3300	Cost Management	3
Elective Requirements:			6 Credits
Choose 6 credits from the following:			6
	ACC 3020	Intermediate Accounting II (3.0)	
	ACC 312G	International Internal Auditing (3.0)	
	ACC 3400	Individual Income Tax (3.0)	
	ACC 3510	Accounting Information Systems (3.0)	
	ACC 4110	Auditing (3.0) *	
	ACC 4420	Corporate Tax (3.0)	

Graduation Requirements:

1. Overall grade point average of 2.5 GPA in all Woodbury School of Business courses and no grade lower than a C- in business courses.
2. Completion of GE and specified departmental requirements.

NOTES: Students are responsible for completing all prerequisite courses.

Footnote
* Courses with an asterisk (*) cannot be taken until student is matriculated into a bachelor degree program.

Accounting, Minor Careers

Careers:		
A minor in accounting will enhance and add value to any business-related degree by giving the student a greater understanding of the language of business. A more in-depth understanding of accounting will give students an edge in the hiring process and improve their value in the work place.		

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Internal Auditing, Minor

Requirements

The minor in internal auditing is designed to develop students' professional abilities in the areas of risk based auditing, problem solving, ethical reasoning, and communication through an engaged and experiential learning experience. The minor cultivates a wide

variety of critical skills to successfully compete in business including strong governance, risk management, and control competencies.

Total Program Credits: 18

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			18 Credits
Business Core Courses:			
	ACC 2010	Financial Accounting (3.0)	3
	ACC 2020	Managerial Accounting (3.0)	3
	ACC 312G	International Internal Auditing (3.0)	3
	ACC 4510	Information Systems Auditing (3.0)	3
	ACC 5130	Case Studies in Internal Auditing (3.0)	3
	ACC 5140	Fraud Examination(3.0)	3

Graduation Requirements:

- Overall grade point average of 2.5 in all Woodbury School of Business courses and no grade lower than a C- in business courses.
- Completion of GE and specified departmental requirements.

Note: Students are responsible for completing all prerequisite courses. Not available to Accounting majors.

Internal Auditing, Minor Careers

Careers:

Internal Auditing, Minor:	
Internal Auditing	
Compliance	
Risk Management	
Control Management	
Risk Advisory Services	

Related Careers

- Accountants and Auditors
- Financial Examiners

Accounting - General Accounting Emphasis, B.S.

Requirements

This degree offers a balanced theoretical and applied approach to study a broad range of business and accounting disciplines. This includes business topics of marketing, finance, law, operations, and strategy. Following a study of the primary accounting disciplines of financial, managerial, audit, information systems, and tax, students can engage in a more specialized study of internal audit, management accounting, tax, or public accounting/graduate school. Students also develop important business skills in communication, critical thinking, team building, and computer applications.

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing (3.0)	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	

or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	3
	MATH 1050	College Algebra (4.0)	
or	MATH 1055	College Algebra with Preliminaries (5)	
or	MATH 1090	College Algebra for Business (3.0)	3
or	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher		
	Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
	Complete the following:		
	PHIL 2050	Ethics and Values (3.0)	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life (2.0)	2
	Distribution Courses:		
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		
	Humanities Distribution		3
	Fine Arts Distribution		3
	ECON 2020	Macroeconomics (Fulfills the Social/Behavioral Science Distribution) (3.0)	3
	Discipline Core Requirements:		62 Credits
	Business Foundation Courses:		
	ACC 2010	Financial Accounting (3.0)	
and	ACC 2020	Managerial Accounting (3.0)	
or	ACC 2030	Principles of Accounting (6.0)	6
	IM 2600	Spreadsheet Applications (3.0)	3
	MATH 1100	Introduction to Calculus (4.0)	
or	MGMT 2240	Business Calculus (3.0)	3
	ECON 2010	Microeconomics (3.0)	3
	MKTG 2200	Written Business Communication (Complete with B- grade or higher) (3.0)	3
	MGMT 2340	Business Statistics I (3.0)	3
	MKTG 2390	Professional Business Presentations (3.0)	3
	Business Core Courses:		
	LEGL 3000	Business Law (3.0)	3
	MKTG 3600	Principles of Marketing (3.0)	3
	FIN 3100	Principles of Finance (3.0)	3
	MGMT 3000	Organizational Behavior (3.0)	3
	MGMT 3450	Operations Management (3.0) **	3
	MGMT 4860	Business Strategy Formulation and Implementation (4.0)	4
	MGMT 495R	Executive Lecture Series (1.0)	
or	ENTR 493R	Entrepreneurship Lecture Series (1.0)	1

Accounting

Accounting Core Courses:		
ACC 3010	Intermediate Accounting I (3.0)	3
ACC 3020	Intermediate Accounting II (3.0)	3
ACC 312G	International Internal Auditing (3.0)	3
ACC 3300	Cost Management (3.0)	3
ACC 3400	Individual Income Tax (3.0)	3
ACC 3510	Accounting Information Systems (3.0)	3
Elective Requirements:		14 Credits
Complete 14 credits of any course 1000 or higher.		14
Emphasis Requirements:		9 Credits
Complete 9 credits from the following courses:		9
ACC 4020	Advanced Financial Accounting (3.0)	
ACC 4030	Governmental and Not-For-Profit Accounting (3.0)	
ACC 4110	Auditing (3.0)	
ACC 4310	Advanced Management Accounting (3.0)	
ACC 4420	Corporate Tax (3.0)	
ACC 5140	Fraud Examination (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Footnote

**Cannot be taken until student is matriculated

Accounting - General Accounting Emphasis, B.S. Careers

The Bachelor of Science in Accounting degree will prepare students for a profession with a wide variety of high demand jobs in the business world. Students will also be prepared to obtain profession designations as certified public accounts (CPA), certified management accounting (CMA), certified internal auditor (CIA), certified fraud examiner (CFE) or certified financial analyst (CFA), which increase earnings potential. Students are also well prepared for graduate programs or law school.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Accounting - Internal Auditing Emphasis, B.S.

Requirements

The Emphasis in Internal Auditing for the Bachelor of Science in Accounting is designed to develop students' professional abilities in the areas of risk based auditing, problem solving, ethical reasoning, and communication through an engaged and experiential learning experience. The emphasis cultivates a wide variety of critical skills required to

successfully compete in business including strong governance, risk management, and control competencies.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing (3.0)	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	3
MATH 1050	College Algebra (4.0)	
or MATH 1055	College Algebra with Preliminaries (5.0)	
or MATH 1090	College Algebra for Business (3.0)	3
or	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values (3.0)	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life (2.0)	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
ECON 2020	Macroeconomics (Fulfills the Social/Behavioral Science Distribution) (3.0)	3
Discipline Core Requirements:		62 Credits
Business Foundation Courses:		
ACC 2010	Financial Accounting (3.0)	
and ACC 2020	Managerial Accounting (3.0)	
or ACC 2030	Principles of Accounting (6.0)	6
IM 2600	Spreadsheet Applications (3.0)	3
MATH 1100	Introduction to Calculus (4.0)	
or MGMT 2240	Business Calculus (3.0)	3
ECON 2010	Microeconomics (3.0)	3
MKTG 2200	Written Business Communication (Complete with B- grade or higher) (3.0)	3
MGMT 2340	Business Statistics I (3.0)	3
MKTG 2390	Professional Business Presentations (3.0)	3
Business Core Courses:		
LEGL 3000	Business Law (3.0)	3

	MKTG 3600	Principles of Marketing (3.0)	3
	FIN 3100	Principles of Finance (3.0)	3
	MGMT 3000	Organizational Behavior (3.0)	3
	MGMT 3450	Operations Management (3.0)**	3
	MGMT 4860	Business Strategy Formulation and Implementation (4.0)	4
	MGMT 495R	Executive Lecture Series (1.0)	
or	ENTR 493R	Entrepreneurship Lecture Series (1.0)	1
Accounting Core Courses:			
	ACC 3010	Intermediate Accounting I (3.0)	3
	ACC 3020	Intermediate Accounting II (3.0)	3
	ACC 312G	International Internal Auditing (3.0)	3
	ACC 3300	Cost Management (3.0)	3
	ACC 3400	Individual Income Tax (3.0)	3
	ACC 3510	Accounting Information Systems (3.0)	3
Elective Requirements:			14 Credits
	Complete 14 credits of any course 1000 or higher.		14
Emphasis Requirements:			9 Credits
	ACC 5130	Case Studies in Internal Auditing (3.0)	3
Choose six credits from the following:			6
	ACC 4510	Information Systems Auditing (3.0)	
	ACC 5140	Fraud Examination (3.0)	
	ACC 481R	Internship (Subject to approval by internal auditing faculty). Repeat for 3 credits. (2.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Footnote

** Courses with an asterisk (*) cannot be taken until student is matriculated

Accounting - Internal Auditing Emphasis, B.S. Careers

Careers:

The internal auditing emphasis prepares students for careers in internal auditing, compliance, risk management, control management, and risk advisory services.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Accounting Graduate Programs

Woodbury School of Business

Dean: Norman S. Wright

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- **Telephone:** 801-863-8260
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Master of Accountancy

WSB Graduate Program Director: Joel Helquist

- **Office:** WB 252
- **Telephone:** 801-863-8307
- **Email:** joelh@uvu.edu

MAcc Coordinator: Kaylyn Curtis

- **Office:** WB 235
- **Telephone:** 801-863-8121
- **Email:** Kaylyn.Curtis@uvu.edu
-

Program Description

Utah Valley University offers a Master of Accountancy (MAcc) program that can be completed in one year going full time. Students are also able to go part-time and complete the degree in two years. The MAcc degree prepares students for professional positions in accounting with potential for advancement throughout their career. It qualifies students for entry-level positions in public accounting, industry, government, and not-for-profit organizations. The MAcc qualifies students to sit for the Uniform CPA Examinations in the State of Utah, a necessary step in becoming a Certified Public Accountant (CPA). It also provides a base to pursue related certifications as Certified Internal Auditor (CIA), Certified Management Accountant (CMA), and Certified Fraud Examiner (CFE). Ultimately, a MAcc can lead to a wide variety of significant leadership positions in accounting and business including CFO and CEO.

The MAcc "prepares professionally competent people" by meeting the minimum education required to become a CPA and "promotes student success" by qualifying students to seek professional level positions in accounting. Educational expectations of accounting professionals have increased and the MAcc degree will make UVU students more competitive for entry level positions and improve upward mobility throughout their career. The MAcc program at UVU meets local and regional needs. It is a professional degree which promotes student success and lifelong learning. Economic development is enhanced by providing needed accounting talent. MAcc graduates are a source of leadership talent for business, government, and not-for-profit entities.

Prerequisites

Applicants are expected to meet the following minimum criteria:

- bachelor's degree from a regionally accredited institution or the equivalent for international students.
- minimum overall undergraduate GPA of 3.0.
- minimum GPA of 3.0 in upper-division accounting courses.
- completion of the GMAT exam with scores acceptable to the admissions committee.
- foreign students must complete the Test Of English as a Foreign Language (TOEFL).

Prerequisite Courses (or equivalent classes) from Undergraduate Studies:

ACCT 2010 Financial Accounting
 ACCT 2020 Managerial Accounting
 ACCT 3010 Intermediate I
 ACCT 3020 Intermediate II

ACC 3300 Cost Management
 ACC 3510 Accounting Information Systems
 ACC 3400 Individual Income Tax
 ACC 4110 Auditing

Application Process

Baccalaureate degree holders with both business and non-business majors may apply. Deadlines and current application requirements are posted on the website, www.uvu.edu/macc. Applicants must submit all of the following to the Woodbury School of Business:

1. Completed application online, www.uvu.edu/admissions
2. Remit a nonrefundable \$45 fee by check or money order (payable to UVU).
3. Forward all official university transcripts.
4. Respond to the one admission essay questions.
5. Submit a current resume that includes educational background and professional work experience.
6. Provide two letters of recommendation. Recommenders can send letters of recommendation or complete electronic evaluation forms.

Send official GMAT test scores. GMAT registration is available at www.mba.com. Submit TOEFL scores with a minimum of 79 for the Internet-based test (This is only for applicants for whom English is a second language and who have not earned a degree in the U.S.)

1. Student interviews may also be requested at the discretion of the student selection committee.

Reapplication

If an applicant is not admitted, he/she may reapply again at a later time. All current admission requirements at the time of application must be met.

Satisfactory Progress

Continuation in the Master of Accountancy program is determined by: (1) satisfactory progress (C or higher) in all courses (completed courses with a grade lower than a C must be repeated) and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than C; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Business Administration program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the Master of Accountancy program is a requirement for enrollment into all Master of Accountancy courses.

2018-19 Master of Accountancy --Tuition and Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
1	\$501	\$35	\$536	1	\$1,217	\$35	\$1,252	
2	\$1,002	\$70	\$1,072	2	\$2,434	\$70	\$2,504	

3	\$1,503	\$105	\$1,608		3	\$3,651	\$105	\$3,756
4	\$2,004	\$140	\$2,144		4	\$4,868	\$140	\$5,008
5	\$2,505	\$175	\$2,680		5	\$6,085	\$175	\$6,260
6	\$3,006	\$210	\$3,216		6	\$7,302	\$210	\$7,512
7	\$3,507	\$245	\$3,752		7	\$8,519	\$245	\$8,764
8	\$4,008	\$280	\$4,288		8	\$9,736	\$280	\$10,016
9	\$4,509	\$315	\$4,824		9	\$10,953	\$315	\$11,268
10	\$5,010	\$350	\$5,360		10	\$12,170	\$350	\$12,520
11	\$5,511	\$350	\$5,861		11	\$13,387	\$350	\$13,737
12	\$6,012	\$350	\$6,362		12	\$14,604	\$350	\$14,954
13	\$6,513	\$350	\$6,863		13	\$15,821	\$350	\$16,171
14	\$7,014	\$350	\$7,364		14	\$17,038	\$350	\$17,388
15	\$7,515	\$350	\$7,865		15	\$18,255	\$350	\$18,605
16	\$8,016	\$350	\$8,366		16	\$19,472	\$350	\$19,822
17	\$8,517	\$350	\$8,867		17	\$20,689	\$350	\$21,039
18	\$9,018	\$350	\$9,368		18	\$21,906	\$350	\$22,256
19	\$9,519	\$350	\$9,869		19	\$23,123	\$350	\$23,473
20	\$10,020	\$350	\$10,370		20	\$24,340	\$350	\$24,690

FACULTY

HELQUIST, Joel Associate Professor

Course Descriptions

Accounting..... 569

Business Management..... 753

Degrees & Programs

Master of Accountancy, M.Acc

Requirements

The Master of Accountancy (MAcc) degree prepares students for professional positions in accounting with the potential for advancement throughout their career. Building upon an undergraduate education in accounting and business it qualifies students for entry-level positions in public accounting, industry, government, and not-for-profit organizations. The MAcc qualifies students to sit for the Uniform CPA Examinations in the State of Utah which is a necessary step in becoming a Certified Public Accountant (CPA). It also provides a base from which students may pursue related certifications such as Certified Internal Auditor (CIA), Certified Management Accountant (CMA), and Certified Fraud Examiner (CFE). Combined with appropriate experience the MAcc can lead to a wide variety of significant leadership positions in accounting and business including Chief Financial Officer (CFO) and Chief Executive Officer (CEO).

Total Program Credits: 30

Matriculation Requirements:		
1. Admission to Woodbury School of Business Master of Accountancy program.		
Discipline Core Requirements:		18 Credits
MGMT 6215	Managing and Facilitating Professional Teams	3
ACC 6350	Accounting Strategies for Achieving Profit Goals	3
ACC 6510	Financial Auditing	3
ACC 6560	Accounting Theory and Research	3
ACC 6060	Professionalism and Leadership	3
ACC 6420	Principles of Corporate Tax	3

Elective Requirements:		12 Credits
Select 12 semester credits from the following courses:		12
ACC 6130	Case Studies in Auditing (3.0)	
ACC 6140	Fraud Examination and Forensic Accounting (3.0)	
ACC 6150	Information Systems Auditing (3.0)	
ACC 6410	Tax Research and Procedure (3.0)	
ACC 6440	Partnership Tax (3.0)	
ACC 6460	Estate and Gift Tax (3.0)	
ACC 6430	Advanced Corporate Tax (3.0)	
ACC 6600	Business Regulation (3.0)	
ACC 6610	Financial Statement Analysis (3.0)	

Graduation Requirements:

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 3.0 or above in Master of Accountancy courses.
3. A grade of C or higher required for all courses used to satisfy graduation requirement.
4. If a similar course was taken at the undergraduate level, the graduate course cannot be used to meet the graduation requirement.

Master of Accountancy, M.Acc Careers

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Air Force and Army ROTC

Mission Statement

The Air Force Reserve Officer Training Corps (AFROTC) is an educational program designed to provide students the opportunity to become Air Force officers while completing requirements for an undergraduate or graduate degree. Four-year and three-year programs are available for both men and women.

Name:	Air Force ROTC
Location:	Wells ROTC Building, Room 380, BYU Campus (see http://map.byu.edu)
Telephone:	801-422-2671
Email:	afsecretary@byu.edu
Web Address:	www.afrotcdet855.org/
Chair:	Col Timothy Hogan

Air Force ROTC

Chair: Col Timothy Hogan
Maj Benjamin Snell
Maj John Young
Maj Daniel McCombs
Capt Colin Slade
Lt Jordan Woods
TSgt Michael Masouras
SSgt Roxana Cortes

Aerospace Studies (Air Force)

The Air Force ROTC program is designed to produce highly qualified commissioned officers for the U.S. Air Force.

Four Year Program

The traditional Air Force ROTC program extends over four years of college and consists of two phases: a two-year basic course during the freshman and sophomore years, and a two-year advanced course covering the junior and senior years of college. There is *no military service obligation* after graduation for participating in the first two years of the Air Force ROTC program, unless on an Air Force ROTC scholarship. During this time students learn more about the Air Force and the historical development of air power. After completing the first two years, known as the General Military Course (GMC), students may *compete* for entry into the last two years, the Professional Officer Course (POC). If accepted, students will attend a summer field training encampment between their sophomore and junior years before entering the POC. Upon entry into the POC, students are sworn into the Air Force Reserves and sign an agreement to serve on active duty upon graduation. *Prior to this agreement, students incur no military service obligation unless on an Air Force ROTC scholarship.* Cadets in the POC study leadership, management, and national defense policy. Cadets in the POC also received a nontaxable subsistence allowance.

Condensed Programs

Students with less than four years remaining in their degree plan will be considered for condensed programs. Students may enter the program as sophomores and "dual enroll" in both the Aeros 100 and 200 academics simultaneously in order to complete the program in three years. Please contact the department about possible options for completing the Air Force ROTC program in less than three years. More condensed program options are offered on a case-by-case basis depending on Air Force accessions needs and an applicant's prior military service (if applicable).

To enter the program, students MUST:

- Be a full-time undergraduate or graduate student.
- Be able to graduate with a baccalaureate degree before their 40th birthday (waivers available under certain circumstances and more stringent age restrictions apply for some career fields).
- Meet Air Force height and weight standards (see: <https://www.afrotc.com/program-requirements/physical>).
- Be free of long term medical conditions that would preclude them from military service. Medical history will be reviewed through a Department of Defense Medical Examination Review Board (DoDMERB) physical prior to contracting with the Air Force. Please see the official DoDMERB site for a list of disqualifying conditions (waivers may be available) and contact DoDMERB at 719-333-3562 if you have specific questions.
- Have a minimum cumulative GPA of 2.0 for any college credits received prior to joining (whether taken through high school AP/IB/dual-enrollment programs or as a college student).
- Be a citizen of the United States OR a permanent resident of the United States pursuing citizenship status.
- Not have a criminal record (some minor civil involvements such as speeding tickets can be waived, but must be reported).
- Not have a history of illegal drug use, not including marijuana.
- Register for the appropriate Aerospace Studies courses. In addition to academic courses, students are required to participate in scheduled leadership lab events and physical training.

Cross-Enrollment Agreement

Utah Valley University (UVU) offers the Air Force ROTC program through a cross-enrollment agreement with Brigham Young University (BYU). Although students receive credits and grades for Aerospace Studies courses through UVU, most courses are physically taught on BYU's campus. Transportation between campuses is the responsibility of the student. Students are encouraged to review their class schedule and ensure they leave enough time to commute between campuses (approximately a 15 minute drive). Additionally, compliance with BYU standards, as listed in the current BYU catalog, is an obligation while participating in ROTC activities and at all times on the BYU campus.

Scholarships

Air Force ROTC scholarships are among the finest scholarships offered and can be used at any of the hundreds of universities and colleges across the United States which offer an Air Force ROTC program, including UVU! Scholarships provide funding for tuition, college fees, textbooks, and a monthly living stipend, helping students to complete their baccalaureate training while preparing for a rewarding career in the Air Force. Scholarships are competitive and offered on a merit based system.

Four Year Scholarships

High school seniors planning on attending UVU are encouraged to apply for an Air Force ROTC scholarship. For further information on requirements and application deadlines, please see: <https://www.afrotc.com/scholarships>. High school graduates who have never attended college as a full-time student may also be eligible to apply for a four year scholarship.

Three/Two Year Scholarships

Students completing the GMC who meet additional requirements will be considered for scholarship opportunities. Application occurs through the Air Force ROTC Detachments and students must be active participants in the program to apply.

Name:	Army ROTC
Location:	800 West University Parkway, Orem, UT 84057
Telephone:	801-863-6299
Email:	armyrotc@uvu.edu
Web Address:	www.uvu.edu/rotc/
Chair:	Maj Toby Adamson

Army ROTC

Chair: Maj Toby Adamson
 SFC Vanessa Bustos
 CPT Richard Elias
 CPT Grant Stark
 SFC Jacob Warnock
 SSG Larry Baird
 Mr. Chase Stilson

Military Science (Army)

A five-week Advanced Leadership Course is required in the summer between the junior and senior years. All Army ROTC students are required to attend a leadership laboratory for two and one-half hours each week. Practical experience in leadership applications such as small unit tactics, rappelling, weapons familiarization, etc., are emphasized during laboratory periods.

Cadets are also required to participate in scheduled morning/afternoon fitness training.

Military Science Minor (Army)

A minor in Military Science is also available for Army ROTC Cadets. For more information regarding a minor in Military Science, students are encouraged to speak with their UVU Army ROTC instructor in order to program in their schedule the required courses.

General Information

The ROTC program is designed to produce highly qualified commissioned officers for the U.S. Air Force, U.S. Army, Army Reserve, and Army National Guard.

The traditional ROTC program extends over four years of college and consists of two phases: a two-year basic course during the freshman and sophomore years, and a two-year advanced course covering the junior and senior years of college.

To receive a commission as a second lieutenant in the U.S. Air Force, U.S. Army, Army Reserve or Army National Guard, students must earn a baccalaureate degree prior to age 30. An exception will be made for prior service, which may extend the age limit to 34. If designated for Air Force pilot or navigator training, all commissioning requirements must be met prior to age 29. Students must be citizens of the United States to be commissioned.

Physical and academic standards for the basic course are the same as for those of the university. To qualify for the advanced program, students must pass an academic and physical examination during the year preceding entry into the advanced course. At the beginning of the fall semester of their junior year, students are sworn into the Air Force or Army Reserves and sign an agreement to complete the last two years of ROTC and to serve on reserve or active duty upon graduation. Students incur no military obligation prior to joining the reserves.

Program of Instruction

The ROTC program is designed to complement the civilian goal of acquiring a baccalaureate degree in a personal course of study while enabling students to develop the knowledge, skills, and attitudes for transition into the United States Armed Forces upon commissioning and to fulfill a military obligation as a reserve or active duty officer. Students do not major in Aerospace Studies or Military Science but may receive a minor in these areas upon their request and depending upon the requirements of the college or university from which the students received their baccalaureate degree. ROTC military and leadership training provides ROTC graduates with many special skills and experiences which will enable them to compete as leaders in the military and/or business, civic, and community affairs.

Scholarships

ROTC offers many two, three, and four-year scholarships for which students may compete, awarded on merit. The scholarships pay full tuition, textbook costs, lab, and other required college fees, related education expenses such as classroom materials, and a \$350-500 per month subsistence allowance. These scholarships are among the finest scholarships offered and can be used at hundreds of other universities and colleges across the United States for students to complete their baccalaureate training at a four-year school. ROTC scholarships are offered on a competitive basis

and applications must be submitted through either the Air Force or Army ROTC Detachments. In most cases, deadline for scholarship applications is January of the year prior to enrollment; however, it is suggested that interested parties check with specific ROTC departments since in certain instances deadlines may vary. ROTC scholarships are not affected by other grants, loans, or VEAP. To be eligible for a scholarship, a student must be eligible to receive a baccalaureate degree by his or her 32th birthday, be a U.S. Citizen, be at least age 17 at the time the scholarship is to be used, and be willing to serve on active duty for a period of four years if a scholarship is utilized by a student. There are also Reserve Component Scholarships awarded each year for National Guard and Reserve duty.

Woodbury School of Business

Dean: Norman S. Wright

- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu

Course Descriptions

Aerospace Studies.....	572
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Allied Health

Name:	Allied Health
Location:	Health Professions Building West Campus, 987 S Geneva Rd Orem, UT HP 142
Telephone:	801-863-7536
Email:	meridee.chilton@uvu.edu
Web Address:	www.uvu.edu/dental/
Chair:	Dianne Knight

Mission Statement

The mission statement of Utah Valley University Allied Health Program is to provide leadership and scholarship in educating Dental Hygienists and Respiratory Therapists. Our graduates will improve the quality of health for diverse populations by advancing the delivery systems and science of Allied Health through inter-professional collaboration while adhering to professional standards.

The Department of Allied Health also seeks to positively impact the education of its students and the delivery of Dental Hygiene and Respiratory Therapy services to the public by fulfilling the goals below:

- To provide quality progressive dental hygiene and respiratory therapy education using the latest evidence based research.
- To prepare Dental Hygiene and Respiratory Therapist graduates to possess the knowledge, values, ethics, and skills to provide optimal care. Dental Hygiene and Respiratory Therapy will show this through demonstrated competencies.
- To maintain and expand oral (Dental Hygiene) and cardiopulmonary (Respiratory Therapy) health care provided to diverse populations through clinical services and community outreach programs.
- To increase the visibility of the department within the university and profession.

Allied Health

- **Department Chair:** Dianne Knight
- **Office:** HP 142d
- **Telephone:** 801-863-6885
- **Email:** Knightdi@uvu.edu

- **Administrative Support:** Meridee Chilton
- **Office:** HP 142d
- **Telephone:** 801-863-7536
- **Email:** meridee.chilton@uvu.edu
- **Mail Stop:** 238

Program Information

Our program offers an Associate in Applied Science as well as a Bachelor Completion degree in Dental Hygiene, and an Associate of Applied Science Pre-Professional Respiratory Therapy and Bachelor of Science in Respiratory Therapy (students admitted into the program will work with the Respiratory Therapy Program Director and/or Director of Clinical Education).

Students are required to follow departmental infection control policies and procedures that are based on OSHA regulations and CDC recommendations. They must meet the health and safety requirements participating facilities require of their employees. These requirements must be met prior to enrollment in Dental Hygiene 1010 and in Respiratory Therapy courses:

1. Documentation of current immunization for Tetanus, Measles, Mumps, Rubella, and Hepatitis B, and Negative Mantoux for tuberculosis. (negative chest x-ray if Mantoux is contra indicated/positive). Students may refuse any immunization by signing a waiver and release from liability. Immunization may also be waived

with documentation of acceptable titer or written documentation from a physician of immunization risk.

2. Current CPR certification (American Heart Association CPR for Health Care Providers, American Red Cross Health Care Provider, or National Safety Council); certification must remain current throughout academic program. Students will have professional liability insurance through UVU's comprehensive liability insurance policy. This liability insurance is in effect when students are performing within the scope of their assigned clinical/laboratory activities and under the supervision of Department of Allied Health faculty and supervising dentists.

The Department of Allied Health adheres to UVU policy allowing students, staff or faculty with AIDS, ARC, or HIV to participate in all phases of College life within established College policies. The Department will respect the confidentiality of individuals with AIDS, ARC, or HIV insofar as the safety of others is not in question. College policy is not to test students, faculty or staff for the AIDS virus. See Policy A-9.1 for full college policy. State Licensure requirements may consider health status. Applicants with questions regarding Licensure policies should contact the licensing division of the state(s) in which they intend to seek Licensure following graduation.

Admission Requirements

Admission to UVU does not constitute admission to any of the Dental Hygiene or Respiratory Therapy Programs. Admission to the programs requires a separate and competitive admission process.

For specific admission criteria, please visit www.uvu.edu/dental for Dental Hygiene or www.uvu.edu/chps/departments/respiratory-health.html for Respiratory Therapy. Feel free to contact the Department of Allied Health at 801-863-7536 or 801-863-6974, or e-mail a request for information to kdockstader@uvu.edu for Dental Hygiene or fullmede@uvu.edu for Respiratory Therapy.

All applicants will be notified by mail of their admission status. No telephone or in-person requests for admission status will be answered. Students not admitted for the semester of application must reapply for the next application period and compete with the new pool for admission. There is no waiting list for either program.

Transfer of Credits

For information regarding the transfer of credits from other institutions of higher learning for general education and required courses, other than Dental Hygiene and Respiratory Therapy courses, please contact the Graduation and Transfer Services office (BA 114g, telephone 801-863-8438). For Dental Hygiene and Respiratory Therapy courses, contact the Department of Allied Health after you have been notified of acceptance into the AAS program.

Degree

The Department of Allied Health reserves the right to modify the curriculum as needed to meet accreditation requirements and changes in the profession.

Programs

Dental Hygiene

Students interested in the Dental Hygiene program but are not yet admitted, will need to see one of the pre-dental hygiene advisors in the Academic Counseling center. These advisors will assist you with the planning of the pre-requisites needed to apply to the program.

- **Pre-Dental Hygiene Advisors**
- **Office:** LC 402
- **Telephone:** 801-863-8425
- **Email:** acadcounseling@uvu.edu

Students admitted into the AAS or BS Dental Hygiene Program will need to contact the Dental Hygiene advisor.

- **Dental Hygiene Advisor:** Kristie Dockstader
- **Office:** HP 101b
- **Telephone:** 801-863-6974
- **Email:** Kdockstader@uvu.edu

The Dental Hygiene AAS program prepares graduates to take the Dental Hygiene National Board Examination, and all Regional or State Board Exams to apply for state licensure.* Completion of the program prepares graduates to enter private practice as competent dental hygiene professionals. The program is competency based and student centered in nature. The program focuses on developing the knowledge and skill needed in dental hygiene while it strives to develop student problem solving and critical thinking skills, communication skills and teaching/education skills. The curriculum also develops student professionalism and promotes lifelong learning, community awareness, engagement and service.

* Applicants to the AAS Dental Hygiene program, who have questions about their potential for licensure in a particular state, should contact that state's board of dental hygiene.

The AAS program is a competitive admission program. Please refer to our department website for a complete description of our application process and requirements. You may call our office with any questions.

You must apply and be officially accepted into our program to declare yourself a dental hygiene major in order to begin taking Dental Hygiene courses.

The AAS curriculum includes a total of 82 credits including prerequisites. These prerequisite courses must be taken before applying to the Dental Hygiene Program:

- CHEM 1110 Chemistry for the Health Professions
- ENGL 1010 College Writing
- MATH 1030, 1040, or 1050 (Quantitative Literacy)
- MATH College Algebra.
- ZOOL 2320 Human Anatomy Lecture
- ZOOL 2325 Human Anatomy Lab
- ZOOL 2420 Human Physiology
- ZOOL 2425 Human Physiology Lab

Please be aware that some of the above prerequisites have their own prerequisites. Please contact the Biology Department for information on their prerequisites for the Human Anatomy and Human Physiology courses and the Chemistry Department for their prerequisites for CHEM 1110

The Bachelor Completion Program includes a total of 120 credits. It builds on the credits received in the AAS program. Please refer to our department website for information concerning the application process, required courses and other important information. Bear in mind that students need their two year degree in dental hygiene prior to matriculating into this program.

One important pre-requisite to entering the Bachelor program is an Associate level degree in dental hygiene from an accredited school in the United States. The Associate level degree must be transferable to the USHE higher education system.

Costs for the AAS Dental Hygiene program include a \$3175 program fee per semester for four (4) semesters, in addition to UVU tuition and laboratory fees (these costs are subject to change). This fee is subject to change on a yearly basis and the student is responsible to pay any fee increases, regardless of when they began the program. Students are required to purchase their own dental instruments, some clinical supplies, and uniforms. Students are responsible for transportation to the clinic and other clinical sites, as well as other field experiences and any State, Regional or National boards and licensing.

The AAS Dental Hygiene program is challenging academically and in the amount of time involved on campus and at clinical experiences. Students should plan for some evening and weekend clinical experiences in dental hygiene courses. Students will provide patient care in a clinical setting. While volunteer patients come to the clinic for treatment, students should seek patients for some clinical experiences, and are *ultimately responsible for obtaining their clinical patients*.

The BS Dental Hygiene program does not entail a special fee or clinical component.

Students in either the AAS or BS program will be informed of additional departmental policies following admission to the program.

Upon successful completion of national, state and regional exams, graduates are eligible for positions in private dental offices, public health programs, school health programs, dental hygiene education and research.

Advisory Committee:

Melinda Reich RDH AAS, Rhella Christensen RDH PH.D, Alexander Larsen DDS, Michelle Martin, RDH, Lauren Perucca RDH.

Accreditation:

The Utah Valley University Dental Hygiene Program is fully accredited by the Commission on Dental Accreditation (CODA). The Commission on Dental Accreditation, which operates under the auspices of the American Dental Association, is a peer review mechanism that include the involvement of members of the discipline, the broad educational community, employers, practitioners, then dental licensing community and public members. All of these groups participate in a process designed to ensure educational quality.

The Commission on Dental Accreditation can be contacted at:

211 East Chicago Avenue Chicago IL 60611
(312) 440-4653

<http://www.ada.org/en/coda>

The Department of Allied Health has a working Dental Hygiene clinic serving the general public. Clinic appointments can be made by calling 801-863-7608.

Respiratory Therapy

- **Respiratory Therapy Program Director:**Max Eskelson
- **Office:** HP 104b
- **Telephone:** 801-863-5897
- **Email:**max.eskelson@uvu.edu

Students interested in applying to the Respiratory Therapy program please contact the [Academic Counseling Center](#)

- **Pre-Respiratory Therapy Advisor:**Denise Fullmer
- **Office:** LC 402
- **Telephone:** 801-863-6484
- **Email:** fullmede@uvu.edu
-

The Respiratory Therapy program is competency based and student centered in nature. The program focuses on developing the knowledge and skill needed in respiratory care while striving to develop student problem solving and critical thinking skills, communication skills and teaching/education skills. The curriculum also develops student professionalism and promotes lifelong learning, community awareness, engagement and service.

* Applicants to the Respiratory Therapy program, who have questions about their potential for licensure in a particular state, should contact that state's board of respiratory care.

The AAS program is a competitive admission program. Please refer to our department website for a complete description of our application process and requirements. Call our office with any questions.

You must apply and be officially accepted into our program to declare yourself a Respiratory Therapy major in order to begin taking Respiratory Therapy courses.

The AAS curriculum includes a total of 62 credits including prerequisites. These prerequisite courses must be taken before applying to the Respiratory Therapy Program:

The Bachelor of Science program includes a total of 122 credits. It builds on the credits received in the AAS program. Please refer to our department website for information concerning the application process, required courses and other important information. Bear in mind that students will complete the AAS degree in Pre-Professional Respiratory Therapy prior to matriculating into the BS program.

The Respiratory Therapy program is challenging both academically and in the amount of time involved on campus and at clinical experiences. Students should plan for day, evening and weekend shifts during the Respiratory Therapy clinical course work.

Allied Health

Students will learn new skills and will perform patient care and education in the clinical setting.

Students in either the AAS or BS program will be informed of additional departmental policies following admission to the program.

Upon successful completion of national examinations (NBRC), graduates are eligible for positions in short-term acute care hospitals, long term acute care hospitals, homecare DME, aero-medical flight programs, physician offices, tele-health, COPD case management, and respiratory care education and research.

Advisory Committee:

Bill Alward, MD, FCCP; Steve Minton, MD; Kevin Wilkinson, RRT MBA; Kirk Topham, RRT BS; Bob Guenter, RRT BS, Gordon Lassen, RRT-NPS BS; Gary Clawson, RRT PhD, Loren Greenway, RRT, PhD, Kim Bennion, RRT, MS; Shauna Murray, RRT, MS; Mark Bracken, RRT, PhD; Tim Dunkley, RRT, MS; Jack Fried, RRT, MS.

Accreditation:

The Utah Valley University Respiratory Therapy Program has been granted provisional accreditation by the Commission on Accreditation for Respiratory Care (CoARC). The Commission on Accreditation for Respiratory Care is a peer review mechanism that include the involvement of members of the discipline, the broad educational community, employers, practitioners, doctors, the respiratory licensing community and public members. All of these groups participate in a process designed to ensure educational quality.

The Commission on Accreditation for Respiratory Care can be contacted at:

1248 Harwood Road, Bedford, Texas 76021
(817) 283-2835

<http://www.coarc.com/>

DEPARTMENT CHAIR

KNIGHT, Dianne Associate Professor

FACULTY

ESKELSON, Max Assistant Professor

KNIGHT, Dianne Associate Professor

PRESTON, Karen Assistant Professor

ROSE, Kelly Assistant Professor

WILSON, Sandra Associate Professor

YOUNG, Kathleen M. Assistant Professor

Course Descriptions

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Degrees & Programs

Dental Hygiene, A.A.S.

Requirements

This is a competitive admission process and has the following pre-requisites that must be taken, and completed, before you are able to apply and begin the first semester of the program. The pre-requisite courses are: MATH 1050, ENGL 1010, CHEM 1110, ZOOL 2320, ZOOL 2325, ZOOL 2420, ZOOL 2425. Please note that some of the above pre-requisites for application to our AAS program have pre-requisites of their own, as well. Please contact the department offering our pre-requisite courses for more information.

Total Program Credits: 82

Matriculation Requirements:	
1.	Complete MATH 1050, ENGL 1010, CHEM 1110, ZOOL 2320/ZOOL 2325 and ZOOL 2420/ZOOL 2425.

General Education Requirements:		19 Credits
ENGLISH		
ENGL 1010	Introduction to Writing	3
MATHEMATICS		3
STAT 1040	Introduction to Statistics (highly recommended) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		
PHIL 205G	Ethics and Values	3
SOCIAL AND BEHAVIORAL SCIENCE		
SOC 1010	Introduction to Sociology	3
BIOLOGY OR PHYSICAL SCIENCE		
MICR 2060	Microbiology for Health Professions	3
MICR 2065	Microbiology for Health Professions Laboratory	1
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT		
NUTR 1020	Foundations of Human Nutrition	3
Discipline Core Requirements:		63 Credits
Complete the following:		
DENT 1010	Dental Hygiene I	3
DENT 1015	Dental Hygiene I Preclinical lab	2
DENT 1020	Oral Anatomy and Physiology	4
DENT 1030	Dental Materials	2
DENT 1040	Dental Hygiene II	3
DENT 1045	Dental Hygiene II Clinical	3
DENT 1050	Clinical Dental Radiography	1
DENT 1055	Clinical Dental Radiography Lab	1
DENT 1060	General and Oral Pathology	2
DENT 1070	Medical Emergencies in the Dental Office	1
DENT 2020	Dental Pharmacology	3
DENT 206G	Oral Public Health	3
DENT 3010	Dental Anesthesiology	3
DENT 3015	Dental Hygiene III Clinical	4
DENT 3030	Periodontology	3
DENT 3040	Dental Hygiene IV	2
DENT 3045	Dental Hygiene IV Clinical	4
DENT 3050	Dental Hygiene Seminar	1
CHEM 1110	Elementary Chemistry for the Health Sciences	4
COMM 1050	Introduction to Speech Communication	3
or	COMM 1020	Public Speaking (3.0)
PSY 1010	General Psychology	3
or	PSY 1100	Human Development Life Span (3.0)
ZOOL 2320	Human Anatomy	3
ZOOL 2325	Human Anatomy Laboratory	1
ZOOL 2420	Human Physiology	3
ZOOL 2425	Human Physiology Laboratory	1

Graduation Requirements:

1. Completion of a minimum of 82 semester credits
2. Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements

Dental Hygiene, A.A.S.**Careers**

Dental Hygiene, A.A.S. Careers

Related Careers

- Health Specialties Teachers, Postsecondary
- Dental Hygienists

Pre-Professional Respiratory Therapy, A.A.S.**Requirements**

An Associate of Applied Science in Pre-Professional Respiratory Therapy consists of comprehensive classroom and clinical curricula that prepares students for matriculation into the BS Respiratory Therapy program and credentialing exam offered by the National Board of Respiratory Care (NBRC). The NBRC is the credentialing arm of the American Association of Respiratory Care. Successful completion of the curriculum and the credentialing exam certifies students as a Registered Respiratory Therapist (RRT) and enables them to apply for licensure in their state of residence. Employment opportunities with health care providers range from home health and hospice to neonatal, pediatric, and adult intensive care units in UVU's service area and across the country.

Total Program Credits: 68

Matriculation Requirements:		
1. Acceptance into Pre-Professional Respiratory Therapy Program (See Advisor)		
General Education Requirements:		24 Credits
	ENGL 1010	Introduction to Writing
or	ENGL 101H	Introduction to Writing
Complete one of the following:		3
	MAT 1030	Quantitative Reasoning (3.0)
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)
	STAT 1040	Introduction to Statistics (3.0)
	STAT 1045	Introduction to Statistics with Algebra (5.0)
	MATH 1050	College Algebra (4.0)
	MATH 1055	College Algebra with Preliminaries (5.0)
Complete the following:		
	PHIL 205G	Ethics and Values
Complete one of the following:		1
	HLTH 1100	Personal Health and Wellness (Highly recommended) (2.0)
or	PES 1097	Fitness for Life (2.0)
or	Any approved Physical Education, Health, Safety or Environment Course	
Distribution Courses:		
	PSY 1010	General Psychology
or	PSY 1100	Human Development Life Span (3.0)

	BIOL 1010	General Biology	3
or	BIOL 1610	College Biology I (4.0)	
and	BIOL 1615	College Biology I Laboratory (1.0)	
	CHEM 1110	Elementary Chemistry for the Health Sciences	4
or	CHEM 1210	Principles of Chemistry I (4.0)	
	ZOO 2320	Human Anatomy	3
and	ZOO 2325	Human Anatomy Laboratory	1
or	ZOO 232H	Human Anatomy	
and	ZOO 232L	Human Anatomy Laboratory	
Discipline Core Requirements:			44 Credits
	MICR 2060	Microbiology for Health Professions	3
and	MICR 2065	Microbiology for Health Professions Laboratory	1
or	MICR 3450	General Microbiology (3.0)	
and	MICR 3455	General Microbiology Laboratory (1.0)	
	ZOO 2420	Human Physiology	3
	ZOO 2425	Human Physiology Laboratory	1
	PHYS 1010	Elementary Physics	3
	RESP 1540	Survey of Respiratory Therapy	3
Must be accepted into Program to take these Courses			
	RESP 2145	Introduction to Basic Therapeutic Modalities Lab	3
	RESP 2165	Equipment Management Lab	3
	RESP 2210	Elementary Cardiopulmonary Anatomy and Physiology	3
	RESP 2230	Cardiopulmonary Pathophysiology	2
	RESP 2250	Basic Patient Assessment	2
	RESP 2270	Application of Cardiopulmonary Diagnostics	3
	RESP 2300	Basic Modalities in Respiratory Care	3
	RESP 2320	Essentials of Mechanical Ventilation	3
	RESP 2330	Entry Level Respiratory Therapy Review	1
	RESP 2520	Principles of Pharmacology	2
	RESP 2705	Clinical Applications I	3
	RESP 2715	Specialty Clinical Experiences	1
	RESP 2725	Clinical Applications II	3

Graduation Requirements:

1. Completion of a minimum of 68 semester credits
2. Must earn a C or higher in ALL Respiratory Therapy discipline courses, general education courses, and pre-requisite courses.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of specified departmental requirements.

Pre-Professional Respiratory Therapy, A.A.S.**Careers****Related Careers**

- Health Specialties Teachers, Postsecondary
- Respiratory Therapy
- Respiratory Therapy Technicians

Dental Hygiene, B.S.

Requirements

This is a Bachelor Completion program, meaning you must first have a two year degree in dental hygiene to apply and be accepted. Please refer to our website at www.uvu.edu/dental and/or call us at 801-863-7536 or 7592 for specific information about the application process. The BS degree builds on the AAS degree in dental hygiene. The BS degree consists of 120 credits and builds on the credits already earned in the AAS program. This degree can be for those who want to: increase their knowledge in their field, move onto an advanced degree, become a hygiene faculty and teach, work for private companies, research work for the government, become a mid-level provider or want to improve their critical thinking and problem solving skills. This degree is aimed at the working professional, as the Dental Hygiene courses are offered on-line. There is not a clinical component. There are also no special fees involved. The first four (4) semesters and AAS pre-requisites are listed. You must have completed your AAS degree before you can matriculate into the BS program. Because applicants will present with a variety of previous courses already taken, the following plan is only meant to be a guide. It is based on a student completing the UVU AAS Dental Hygiene Degree. Once you have applied, and are in the BS program, you must speak with the Department of Dental Hygiene advisor to help you customize a plan that works for you.

[Online Degree Plan](#)

Total Program Credits: 120

Matriculation Requirements:			
1. Completion of an AA, AS, or AAS degree in dental hygiene from an accredited program with department permission			
General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values (3.0)	
or	PHIL 205G	Ethics and Values (strongly suggested)	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1010	General Biology (fulfills Biology)	3
or	BIOL 1610	College Biology I (4.0)	
	CHEM 1110	Elementary Chemistry for the Health Sciences (fulfills Physical Science)	4

	ZOO 2320	Human Anatomy (fulfills additional Biology or Physical Science)	3
Fine Arts			3
	COMM 1050	Introduction to Speech Communication (fulfills Humanities)	3
or	COMM 1020	Public Speaking (3.0)	
	SOC 1010	Introduction to Sociology (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:			70 Credits
Complete the following:			
	MICR 2060	Microbiology for Health Professions	3
	MICR 2065	Microbiology for Health Professions Laboratory	1
	ZOO 2325	Human Anatomy Laboratory	1
	ZOO 2420	Human Physiology	3
and	ZOO 2425	Human Physiology Laboratory	1
	NUTR 1020	Foundations of Human Nutrition	3
	PSY 1010	General Psychology	3
or	PSY 1100	Human Development Life Span (3.0)	
	DENT 1010	Dental Hygiene I	3
	DENT 1015	Dental Hygiene I Preclinical lab	2
	DENT 1020	Oral Anatomy and Physiology	4
	DENT 1030	Dental Materials	2
	DENT 1040	Dental Hygiene II	3
	DENT 1045	Dental Hygiene II Clinical	3
	DENT 1050	Clinical Dental Radiography	1
	DENT 1055	Clinical Dental Radiography Lab	1
	DENT 1060	General and Oral Pathology	2
	DENT 1070	Medical Emergencies in the Dental Office	1
	DENT 2020	Dental Pharmacology	3
	DENT 206G	Oral Public Health	3
	DENT 3010	Dental Anesthesiology	3
	DENT 3015	Dental Hygiene III Clinical	4
	DENT 3030	Periodontology	3
	DENT 3040	Dental Hygiene IV	2
	DENT 3045	Dental Hygiene IV Clinical	4
	DENT 3050	Dental Hygiene Seminar	1
	DENT 3060	Advanced Dental Hygiene Public Health	2
	DENT 3200	Teaching the Dental Hygiene Patient	2
	DENT 4200	Teaching the Dental Hygiene Student	2
	DENT 4300	Dental Hygiene Capstone	1
	DENT 489R	Undergraduate Research in Dental Hygiene	3
or	HLTH 4600	Research Methods for Community Health (3.0)	
Elective Requirements			14 Credits
Take 14 credits from the following electives:			14
	DENT 3100	Office and Private Practice for the Dental Hygienist (3.0)	
	DENT 406G	Global Community Health Project (3.0)	
	DENT 481R	Internship in Dental Hygiene (1.0)	

DENT 490R	Special Topics in Dental Hygiene (3.0)	
EDSC 3000	Educational Psychology (3.0)	
ENTR 3170	Entrepreneurship (3.0)	
HLTH 3200	Principles of Community Health (3.0)	
HLTH 3260	Theory-Based Approaches to Modifying Health Behavior (3.0)	
HLTH 3700	Grant Writing (3.0)	
HLTH 3800	Epidemiology (3.0)	
HLTH 4200	Health Education Teaching Methods (3.0)	
HLTH 4300	Community Health Ethics (3.0)	
HLTH 440G	Health and Diversity GI (3.0)	
HLTH 4500	Public Health Administration (3.0)	
MGMT 3000	Organizational Behavior (3.0)	
MKTG 3600	Principles of Marketing (3.0)	
SOC 3430	Sociology of Education (3.0)	
Other advisor approved upper division elective		

Graduation Requirements:

1. Completion of a minimum of 120 credits semester credits
2. Overall grade point average of 2.5 or above. All courses must have "C-" or higher.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with 10 hours earned during the last 45 hours
4. Completion of GE and specified departmental requirements
5. A minimum of 40 upper division credit hours
6. Successful completion of at least one Global/Intercultural course.

**Dental Hygiene, B.S.
Careers**

Dental Hygiene - Business Emphasis, B.S. Careers

Related Careers

- Health Specialties Teachers, Postsecondary
- Dental Hygienists

Respiratory Therapy, B.S.

Requirements

A Bachelor of Science in Respiratory Therapy consists of comprehensive classroom and clinical curricula that prepare students for the credentialing exam offered by the National Board of Respiratory Care (NBRC). The NBRC is the credentialing arm of the American Association of Respiratory Care. Successful completion of the curriculum and the credentialing exam certifies students as a Registered Respiratory Therapist (RRT) and enables them to apply for licensure in their state of residence. Employment opportunities with health care providers range from home health and hospice to neonatal, pediatric, and adult intensive care units in UVU's service area and across the country.

Total Program Credits: 122

Matriculation Requirements:		
1. Acceptance into Respiratory Therapy Program (See Advisor)		
General Education Requirements:		37 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	

MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 170H	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 270H	US History to 1877 (3.0)	
and HIST 271H	US History to 1877 (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 205G	Ethics and Values	3
Complete one of the following:		2
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
PSY 1010	General Psychology	3
or PSY 1100	Human Development Life Span (3.0)	
BIOL 1010	General Biology	3
or BIOL 1610	College Biology I (4.0)	
and BIOL 1615	College Biology I Laboratory (1.0)	
CHEM 1110	Elementary Chemistry for the Health Sciences	4
or CHEM 1210	Principles of Chemistry I (4.0)	
ZOOL 2320	Human Anatomy	3
and ZOOL 2325	Human Anatomy Laboratory	1
or ZOOL 232H	Human Anatomy	
and ZOOL 232L	Human Anatomy Laboratory	
Humanities Distribution		3
Fine Arts Distribution		3
Discipline Core Requirements:		78 Credits
MICR 2060	Microbiology for Health Professions	3
and MICR 2065	Microbiology for Health Professions Laboratory	1
or MICR 3450	General Microbiology (3.0)	
and MICR 3455	General Microbiology Laboratory (1.0)	
PHYS 1010	Elementary Physics	3
ZOOL 2420	Human Physiology	3
ZOOL 2425	Human Physiology Laboratory	1
RESP 1540	Survey of Respiratory Therapy	1
Must be accepted into Respiratory Therapy Program to take the following courses.		
RESP 2145	Introduction to Basic Therapeutic Modalities Lab	3

Allied Health

RESP 2165	Equipment Management Lab	3
RESP 2210	Elementary Cardiopulmonary Anatomy and Physiology	3
RESP 2230	Cardiopulmonary Pathophysiology	2
RESP 2250	Basic Patient Assessment	2
RESP 2270	Application of Cardiopulmonary Diagnostics	3
RESP 2300	Basic Modalities in Respiratory Care	3
RESP 2320	Essentials of Mechanical Ventilation	3
RESP 2330	Entry Level Respiratory Therapy Review	1
RESP 2520	Principles of Pharmacology	2
RESP 2705	Clinical Applications I	3
RESP 2715	Specialty Clinical Experiences	1
RESP 2725	Clinical Applications II	3
All lower Division RESP courses must be complete before enrolling in RESP upper division courses.		
ZOOL 4400	Pathophysiology	4
RESP 3210	Adv Cardiopulmonary Anatomy and Physiology	2
RESP 3220	Advanced Cardiopulmonary Pathophysiology	2
RESP 3230	Advanced Cardiopulmonary Technology	2
RESP 3260	Neonatal/Pediatric Respiratory Care	3
RESP 3270	Adult Critical Care	2
RESP 3280	Patient Care Continuum/Quality Management	2
RESP 3765	Clinical Applications of Neonatal/Pediatric Respiratory Care	3
RESP 3775	Clinical Applications of Adult Critical Care	4
RESP 3785	Clinical Applications III /Continuum of Care	2
RESP 3800	Clinical Simulation Seminar	3
RESP 4615	Advanced Patient Assessment	3
RESP 4630	Continuous Quality Improvement	2
Elective Requirements:		7 Credits
A minimum of 7 credit hours must be selected from the following upper division electives.		7
RESP 3510	Anatomy and Physiology of Sleep (3.0)	
RESP 3520	Introduction to Sleep Disorders (3.0)	
RESP 3530	Instrumentation and Computers in Polysomnography (3.0)	
RESP 3550	Therapeutics of Managing Sleep Apnea (2.0)	
RESP 480R	Health Education and Promotion (1.0)	
RESP 489R	Student Research in Respiratory Therapy (1.0)	
RESP 494R	Student Seminar in Respiratory Therapy (1.0)	
HLTH 3800	Epidemiology (3.0)	
INFO 3700	Health Informatics Fundamentals (3.0)	
NURS 4120	Rapid Response Concepts Across the Lifespan (2.0)	

Graduation Requirements:

1. Completion of a minimum of 122 semester credits, including at least 40 hours of upper-division credits.

2. Must earn a C or higher in ALL Respiratory Therapy discipline courses, general education courses, and pre-requisite courses.
3. Completion of GE and specified departmental requirements.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU.
5. Successful completion of at least one Global/Intercultural course.

Respiratory Therapy, B.S. Careers

Related Careers

- Health Specialties Teachers, Postsecondary
- Respiratory Therapy
- Respiratory Therapy Technicians

Art and Design

Name:	Art & Design
Location:	GT 535
Telephone:	801-863-8341
Email:	owensst@uvu.edu
Web Address:	uvu.edu/artdesign
Chair:	Courtney Davis

Mission Statement

To cultivate the creation and appreciation of visual art, we foster creative confidence, critical thinking, interdisciplinary collaboration, and cultural responsibility. We follow these principles to accomplish our mission:

Visual Literacy, Professional Excellence, Creative Diversity, Interdisciplinary Collaboration, and Cultural/Social Responsibility

Visual Literacy We encourage the development of strong visual literacy among students of the visual arts. We support the study of history, culture, technology and trends to this end.

Professional Excellence In preparing visual art students for careers in a broad market, we support and expect excellence and professionalism.

Creative Diversity While teaching techniques, styles, and practices is an important part of our programs, we support a diversity of styles and individual expressions among students in their creative work. We promote artistic freedom and seek to preserve cultural identity through creative production, exhibition, and historical research.

Art & Design

Administrative Assistant: Stacie Owens

- **Office:** GT 535
- **Telephone:** 801-863-8341
- **Email:** owensst@uvu.edu

Art Education

- **Acting Coordinator:** Courtney Davis
- **Office:** GT 535b
- **Telephone:** 801-863-8118
- **Email:** Courtney.Davis@uvu.edu

Art History

- **Coordinator:** Courtney Davis
- **Office:** GT 535b
- **Telephone:** 801-863-8382
- **Email:** Courtney.Davis@uvu.edu

Graphic Design

- **Coordinator:** Benjamin Evjen
- **Office:** GT 525a
- **Telephone:** 801-863-5302
- **Email:** bevjen@uvu.edu

Illustration

- **Coordinator:** Perry Stewart
- **Office:** GT 409

- **Telephone:** 801-863-7132
- **Email:** stewarpe@uvu.edu

Painting/Drawing

- **Coordinator:** Marcus Vincent
- **Office:** GT 525d
- **Telephone:** 801-863-6742
- **Email:** marcus.vincent@uvu.edu

Photography

- **Coordinator:** Reid Elem
- **Office:** GT 525c
- **Telephone:** 801-863-8497
- **Email:** RElem@uvu.edu

Sculpture/Ceramics

- **Coordinator:** Mark Talbert
- **Office:** GT 338
- **Telephone:** 801-863-6270
- **Email:** TALBERMA@uvu.edu

Art & Design Advisement

Advisors: Michelle Proctor

Office: CS 637
Telephone: 801-863-5397
Email: SOAADVISORS@uvu.edu
Hours: Monday - Friday, 9:00 AM - 4:00 PM

Program Description

Utah Valley University's Department of Art & Design offers degrees in applied arts, fine arts, art history, and art education. Upon completing a degree, students emerge from the program ready to enter careers in graphic design, photography, advertising, printing, animation, illustration, art education, printmaking, sculpture, painting and more. Students can earn a general degree, exploring several areas within the visual arts, or they can specialize, exploring a specific practice in depth to better understand it and/or prepare for employment in that field.

Degrees Offered

Students who want to concentrate on a specific area of art and design can gain professional training at UVU through several specialized degrees:

Associate in Applied Science (A.A.S.)

A two-year degree where students can emphasize in one of three areas.

- Graphic Design
- Illustration
- Photography

Bachelor of Arts (B.A.) in Art History

A four-year degree that prepares students for careers and additional education in art history.

Bachelor of Science (B.S.) in Art Education

A four-year degree in which students are trained to teach as art specialists at the secondary level (7–12 grade).

Bachelor of Fine Arts (B.F.A.)

A four-year degree for individuals with above-average abilities, who are looking for a competitive program to hone their skills.

Art and Design

- Graphic Design
- Illustration
- Painting/Drawing
- Photography
- Sculpture/Ceramics

General Art Degrees (B.A., B.S., A.A., A.S.)

Students wanting to study art and design broadly, without emphasizing one particular emphasis area can choose to earn one of four general degrees:

- Bachelor of Arts in Art and Design (B.A.)
- Bachelor of Science in Art and Design (B.S.)
- Associate in Art in Art and Design (A.A.)
- Associate in Science in Art and Design (A.S.)

Students who elect to earn a bachelor of arts or associate in arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate in science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts. Some of our 1000 level courses also fulfill general education requirements.

Career Opportunities

Our degrees prepare students for various career opportunities, some of which are delineated below.

Art History: BA in Art History

Students are prepared for an array of arts-related jobs, including art dealership, art directorship, and work in museums and galleries. It also provides the necessary foundation for graduate studies in art history, which in turn, will prepare students for a career in postsecondary teaching, museum curatorship, and museum directorship.

Fine Arts: Painting/Drawing, Sculpture/Ceramics, Photography

Students are prepared to compete in the arts arena typically via self-employment by promoting their work through galleries, museums, exhibitions and commissions. Some students also choose to pursue graduate studies to further their development or to prepare them to teach in higher education. Areas of study include painting, drawing, printmaking, sculpture, and ceramics.

Applied Arts: Graphic Design, Illustration, Photography

Students are prepared to compete for employment at advertising agencies, design studios, in-house design departments, printing firms, photography studios, gaming developers, animation studios and for freelance consulting work (self-employed). Some students may also choose to further their studies in graduate programs.

Education: BS in Art Education

The Bachelor of Science in Art Education certifies students to teach as an art specialist at the secondary level in public schools and private schools.

Engaged Learning

Students are encouraged to learn by applying what they study in the real world and by taking part in activities outside the classroom.

The department offers many opportunities for students to travel and to interact with practicing art professionals. Art & Design offers rotating trips to art capitals, such as New York City, to visit museums, galleries, and artists' studios. Students may also participate in course related excursions to produce creative works, such as the Art & Design book project. Students can also apply to attend a five-week study abroad program to Italy each summer or to participate in additional rotating international travel experiences.

Students regularly enter their work in competitions at local, state and national levels, with several students earning awards each year. At UVU's biennial art history symposium, students present their research alongside faculty. Every student in the Department of Art & Design attends an art lecture series, in which artists from around the country visit UVU to present their work, lecture on what they do and occasionally hold a workshop.

Art & Design Core Grade Requirement

The Art & Design Core requirements (ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1210, ART 1350, ART 1420, ART 1650, or ART 1750) must be completed with a B- or higher before being formally admitted to the BS, BA, and BFA programs.

Bachelor of Fine Arts (BFA) Requirements:

This degree is for those with exceptional abilities in art and design fields. In order to apply to the BFA, students must first meet the core class requirements (consult with your academic advisor for details) in the Art & Design Department and submit a portfolio for departmental BFA review. Students desiring to participate in the review should submit a letter of intent to the area coordinator in their particular interest. Portfolios will be due in March as designated by the area coordinator. Acceptance into the BFA is based on the portfolio review, overall GPA of 2.0 or above with 3.0 GPA or above in ART and ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above. For graduation with a BFA degree, students must maintain the grade requirements listed above and receive a B grade or above for ART 499R BFA Project. For more information, contact the Academic Advisors. Students not accepted into the BFA program, or who are unable to fulfill the above requirements, may still pursue the more general BA/BS degrees.

Graduation Requirement: Portfolio Submission

To ensure that faculty and programs at UVU are adequately teaching and preparing students for professional careers and/or further schooling, the Art & Design Department has implemented a graduating student portfolio submission. All students completing a degree in the Art & Design Department are required to submit a portfolio for faculty/professional review prior to graduation. Results are kept confidential and are used only to help modify and improve curriculum and teaching. Consult with your academic advisor for details of deadlines and requirements to make certain all Art & Design degree graduation requirements are met.

DEPARTMENT CHAIR

DAVIS, Courtney *Assistant Professor*

FACULTY

BULE, Steve *Professor*

CLARK, Travis Lee *Lecturer*

DAVIS, Courtney *Assistant Professor*

DEWITT, Robert B. *Professor*

ELEM, Reid *Assistant Professor*

EVJEN, Benjamin *Assistant Professor*

FRY, Gareth *Lecturer*

FULLMER, Howard W. *Associate Professor*

HARDIN, Chad Wayne *Assistant Professor*

JENSEN, Brian L. *Associate Professor*

LOVELL, Travis *Associate Professor*

MILLWARD, Jason *Lecturer*

PARKINSON, Susan M. *Associate Professor*

REES, John *Associate Professor*

STEELE-MAKASCI, Nancy *Associate Professor*

STEWART, Perry Alan *Associate Professor*

TALBERT, Mark *Professor*

THORNOCK, Christopher *Assistant Professor*

TRUSCOTT, Brandon T. *Associate Professor*

VINCENT, Marcus A. *Associate Professor*

WILKEY, Patrick *Associate Professor*

YOUNG, Christopher *Assistant Professor*

Course Descriptions

Art.....577
 Art History.....583

Degrees & Programs

Art and Design - Design/Illustration Emphasis, A.A.S.

Requirements

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the Illustration industry. This degree and credits earned can be used to further their studies in a Bachelor of Fine Arts or other programs.

Total Program Credits: 63

Matriculation Requirements:		
Portfolio review required for students seeking the AAS - Art and Design - Graphic Design Emphasis (The Portfolio Review occurs after the first year of coursework. Students who do not pass the review may apply the first year of coursework to the AA or AS in Art & Design.)		
General Education Requirements:		16 Credits
ENGL 1010	Introduction to Writing	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business QL (3)	
Social or Behavioral Science		3
Biology or Physical Science		3
P.E. or Health		1
ARTH 2710	History of Art to the Renaissance (3.0)	
or	ARTH 2720	History of Art from the Renaissance
Discipline Core Requirements:		15 Credits
ART 1110	Drawing I	3
ART 1120	2D Design	3
ART 1130	3 D Design	3
ART 1400	Graphic Computer Applications	3
ART 1750	Intro to Digital Imaging	
Emphasis Requirements:		20 Credits
ART 1210	Spatial Drawing	3
ART 2220	Imagination and Visual Literacy	3
ART 2230	Illustrative Media and Techniques I	3
ART 2240	Illustrative Media and Techniques II	3
ART 2630	Painting I (3.0)	
or	ART 1650	Watermedia I
	ART 2640	Painting II (3.0)

or	ART 2650	Watermedia II	3
	ART 200R	Art and Design Lecture Series (1)	2
Emphasis Elective Requirements:			12 Credits
Complete 12 credits of ART/ARTH electives. Students are STRONGLY ADVISED to fulfill this requirement from the following courses:			12
	ART 2270	Figure Drawing I (3.0)	
	ART 3210	Narrative Illustration (3.0)	
	ART 3220	Conceptual Illustration (3.0)	
	ART 327R	Rendering the Human Head (3.0)	

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Art and Design - Design/Illustration Emphasis, A.A.S. Careers

Careers:
Students are prepared to compete for production design/entry level employment at advertising agencies, design studios, in-house design departments, publishing firms, printing firms, and for freelance consulting work (self-employed). The types of job responsibilities could include pre-press printing, logo design, web and interactive design, digital and traditional publishing, and motion design.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design - Graphic Design Emphasis, A.A.S.

Requirements

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the Illustration industry. This degree and credits earned can be used to further their studies in a Bachelor of Fine Arts or other programs.

Total Program Credits: 63

Matriculation Requirements:		
Portfolio review required for students seeking the AAS - Art and Design - Graphic Design Emphasis (The Portfolio Review occurs after the first year of coursework. Students who do not pass the review may apply the first year of coursework to the AA or AS in Art & Design.)		
General Education Requirements:		16 Credits
ENGL 1010	Introduction to Writing	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	

Art and Design

STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Social or Behavioral Science		3
Biology or Physical Science		3
P.E. or Health		1
ARTH 2710	History of Art to the Renaissance (3.0)	
or ARTH 2720	History of Art from the Renaissance	3
Discipline Core Requirements:		15 Credits
ART 1110	Drawing I	3
ART 1120	2D Design	3
ART 1130	3 D Design	3
ART 1400	Graphic Computer Applications	3
ART 1750	Intro to Digital Imaging	3
Emphasis Requirements:		23 Credits
ART 1410	Typography I	3
ART 1420	Graphic Design I	3
AAS Portfolio Review		
DGM 2120	Web Essentials	3
ART 2280	3D Computer Modeling	3
ART 2400	Production Design	3
ART 2430	Branding I	3
ART 2440	Motion Graphics I	3
ART 200R	Art and Design Lecture Series (1)	2
Emphasis Elective Requirements:		9 Credits
Complete 9 credits from any ART/ARTH courses not previously used.		9

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Art and Design - Graphic Design Emphasis, A.A.S.

Careers

Careers:
Students are prepared to compete for production design/entry level employment at advertising agencies, design studios, in-house design departments, publishing firms, printing firms, and for freelance consulting work (self-employed). The types of job responsibilities could include pre-press printing, logo design, web and interactive design, digital and traditional publishing, and motion design.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design - Photography Emphasis, A.A.S.

Requirements

The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the Illustration industry. This degree and credits earned can be used to further their studies in a Bachelor of Fine Arts or other programs.

Total Program Credits: 63

Matriculation Requirements:		
Portfolio review required for students seeking the AAS - Art and Design - Graphic Design Emphasis (The Portfolio Review occurs after the first year of coursework. Students who do not pass the review may apply the first year of coursework to the AA or AS in Art & Design.)		
General Education Requirements:		16 Credits
ENGL 1010	Introduction to Writing	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Social or Behavioral Science		3
Biology or Physical Science		3
P.E. or Health		1
ARTH 2710	History of Art to the Renaissance (3.0)	
or ARTH 2720	History of Art from the Renaissance	3
Discipline Core Requirements:		15 Credits
ART 1110	Drawing I	3
ART 1120	2D Design	3
ART 1130	3 D Design	3
ART 1400	Graphic Computer Applications	3
ART 1750	Intro to Digital Imaging	3
Emphasis Requirements:		20 Credits
ART 1790	Dark Room Techniques	3
ART 2700	Photography II	3
ART 2710	Documentary Photography	3
ART 2720	Color Photography	3
ART 2730	Photographic Lighting I	3
ART 200R	Art and Design Lecture Series (1)	2
ARTH 3200	The History of Photography	3
Emphasis Elective Requirements:		12 Credits
Complete 12 credits of any ART/ARTH courses not previously used. Students are STRONGLY ADVISED to fulfill part of this requirement with the following courses:		12
ART 3740	Fine Art Photography (3.0)	
ART 3750	Advanced Digital Imaging (3.0)	

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Art and Design - Photography Emphasis, A.A.S. Careers

Careers:
The Applied Associate in Science is a two-year work-ready degree that helps prepare students for entry level jobs within the photography industry. These could include serving as a photographer's assistant, free-lance work in areas such as advertising, stock images, weddings, documentary, portraiture etc. Entry level jobs at in-house photography departments or studios are also possibilities. Students may also choose to promote their work to galleries, museums, exhibitions, commissions.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design, A.A.

Requirements

Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 61

General Education Requirements:	35 Credits
ENGL 1010 Introduction to Writing	3
ENGL 2010 Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:	3
MAT 1030 Quantitative Reasoning (3.0)	
MAT 1035 Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040 Introduction to Statistics (3.0)	
STAT 1045 Introduction to Statistics with Algebra (5.0)	
MATH 1050 College Algebra (4.0)	
MATH 1055 College Algebra with Preliminaries (5.0)	
MATH 1090 College Algebra for Business (3.0)	
Complete one of the following:	3
HIST 2700 US History to 1877 (3.0)	
and HIST 2710 US History since 1877 (3.0)	
HIST 1700 American Civilization (3.0)	
HIST 1740 US Economic History (3.0)	
POLS 1000 American Heritage (3.0)	
POLS 1100 American National Government (3.0)	
Complete the following:	

PHIL 2050 Ethics and Values	3
HLTH 1100 Personal Health and Wellness	2
or PES 1097 Fitness for Life (2.0)	
Distribution Courses:	
Biology	3
Physical Science	3
Additional Biology or Physical Science	3
Humanities Distribution	3
ARTH 2710 History of Art to the Renaissance	3
Social/Behavioral Science	3
Discipline Core Requirements:	18 Credits
ART 1110 Drawing I	3
ART 1120 2D Design	3
ART 1130 3 D Design	3
ART 1400 Graphic Computer Applications	3
ARTH 2720 History of Art from the Renaissance	3
Complete 3 credits from one of the following:	3
ART 1210 Spatial Drawing (3.0)	
ART 1350 Ceramics I (3.0)	
ART 1420 Graphic Design I (3.0)	
ART 1650 Watermedia I (3.0)	
ART 1750 Intro to Digital Imaging (3.0)	
Elective Requirements:	8 Credits
Complete 8 credits of the same Foreign Language	8

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.
6. For the AA degree, completion of 8 credit hours of course work from one language

Art and Design, A.A. Careers

Careers:
Students can use this degree as a stepping stone to 4-year programs both within and outside of the the Art & Design department.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design, A.S.

Requirements

Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these

Art and Design

degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
ARTH2710	History of Art to the Renaissance	3
Social/Behavioral Science		3
Discipline Core Requirements:		18 Credits
ART 1110	Drawing I	3
ART 1120	2D Design	3
ART 1130	3 D Design	3
ART 1400	Graphic Computer Applications	3
ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following:		3
ART 1210	Spatial Drawing (3.0)	
ART 1350	Ceramics I (3.0)	
ART 1420	Graphic Design I (3.0)	
ART 1650	Watermedia I (3.0)	
ART 1750	Intro to Digital Imaging (3.0)	
Elective Requirements:		7 Credits

Complete a minimum of 7 credits from any ART/ARTH Course not already required. Courses relative to the type of Bachelors Degree you plan to pursue are recommended. (See department advisor for appropriate courses.)	7
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Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Portfolio Submission.

Art and Design, A.S.

Careers

Careers:
Students can use this degree as a stepping stone to 4-year programs both within and outside of the the Art & Design department.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design, Certificate of Completion

Requirements

The certificate provides basic instruction in both two-dimensional and three-dimensional using traditional and digital tools.

Total Program Credits: 30

Discipline Core Requirements:		18 Credits
ART 1120	2D Design	3
ART 1400	Graphic Computer Applications	3
ART 1110	Drawing I	3
ART 1050	Photography I	3
ARTH 2710	History of Art to the Renaissance (3.0)	
or ARTH 2720	History of Art from the Renaissance	3
ART 1130	3 D Design	3
Elective Requirements:		12 Credits
Any ART course not already taken (See Department Advisor).		12

Graduation Requirements:

1. Portfolio Submission.
2. Completion of a minimum of 30 credits.
3. Overall GPA of 2.0 or higher.
4. Residency hours -- Minimum of 10 credits required through course attendance at UVU.

Art and Design, Certificate of Completion

Careers

Careers:
This certificate is designed to build basic core skills for Art & Design. This could enhance abilities for someone working in a field that needs to better understand art to

fulfill his/her responsibilities. Students can also use this certificate as a stepping stone to both 2 and 4-year programs within the Art & Design department.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art History, Minor

Requirements

Because art history is cross-disciplinary by nature, a minor in art history would complement almost any degree, whether within or outside of the arts. The minor requires 18 credits of art history courses, including the survey classes Art to and from the Renaissance, as well as four upper division electives, ranging from ancient to contemporary art history. The minor creates a more diverse skill set for students of the visual arts, as well as a more culturally rich educational experience for students outside of the arts.

Total Program Credits: 18

Discipline Core Requirements:		6 Credits
ARTH 2710	History of Art to the Renaissance	3
ARTH 2720	History of Art from the Renaissance	3
Elective Requirements:		12 Credits
Choose 12 credits from the following:		12
ARTH 2800	Introduction to Art History Research and Methodology (3)	
ARTH 300R	Special Topics in Art History (3)	
ARTH 3010	History of Design and Visual Arts (3.0)	
ARTH 3015	Ancient Art of Egypt and the Near East (3.0)	
ARTH 3020	Classical Art and Architecture History (3.0)	
ARTH 3030	Medieval Art and Architecture History (3.0)	
ARTH 3040	Renaissance Art History (3.0)	
ARTH 3050	Baroque Art and Architecture History (3.0)	
ARTH 3055	Northern Baroque Art History (3.0)	
ARTH 3060	Nineteenth-Century Art History (3.0)	
ARTH 3070	Modern Art and Architecture History (3.0)	
ARTH 3080	History of Architecture (3.0)	
ARTH 309G	Introduction to Non Western Ancient Art (3.0)	
ARTH 3100	History of American Art and Architecture (3.0)	
ARTH 3110	The History of Illustration (3.0)	
ARTH 3120	History of Contemporary Art (3.0)	
ARTH 3200	The History of Photography (3.0)	
ARTH 3300	Introduction to Museum Studies (3.0)	
ARTH 3310	Art Theory and Criticism (3)	
ARTH 3400	Arts Management (3.0)	
ARTH 391R	Art History Seminar (3.0)	
or any other advisor approved upper division courses.		

Art History, Minor Careers

Careers:

This degree creates a more diverse skill set for careers related to the visual arts, as well as a more culturally rich knowledge base for careers outside the visual arts.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Archivists
- Curators
- Museum Technicians and Conservators

Art Education, B.S.

Requirements

The Bachelor of Science in Art Education prepares students to qualify for teaching licensure for 7--12th grade. Curriculum is designed to give students a background in general education, as well as secondary education. Students can also focus on a single studio area within visual arts such as painting/drawing, sculpture/ceramics, illustration or printmaking.

Total Program Credits: 120

Matriculation Requirements:		
Students will apply for formal admission to the Secondary Education and the Art and Design Department Art Education program in the semester prior to the beginning of their junior year. Admission criteria include:		
<ol style="list-style-type: none"> 1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement. 2. GPA of 3.0 or higher with no grade lower than a C in content area courses. 3. Completion of all General Education requirements and the majority of content area courses. 4. Pass group interview directed by the Secondary Teacher Education Department. 5. Pass LiveScan Criminal Background Check. 6. Pass a portfolio review with Art and Design Department Art Education Program, and submit an application to the art education program with a pre-teaching statement concurrent with their Secondary Education program application. 		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	

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Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	ART 1350	Ceramics I (fulfills Fine Arts)	3
	Social/Behavioral Science		3
Discipline Core Requirements:			85 Credits
	ART 1110	Drawing I	3
	ART 1120	2D Design	3
	ART 1130	3 D Design	3
	ART 1400	Graphic Computer Applications	3
	ART 1650	Watermedia I	3
	ART 1750	Intro to Digital Imaging	3
	ART 2630	Painting I	3
	ART 2680	Printmaking I	3
	ART 3500	Secondary Art Education Methods I	3
	ART 3510	Secondary Art Education Methods II	3
	ARTH 2710	History of Art to the Renaissance	3
	ARTH 2720	History of Art from the Renaissance	3
	ART 200R	Art and Design Lecture Series (must be repeated)	2
	ART 2110	Drawing II	3
or	ART 2270	Figure Drawing I	
	One upper-division ARTH classes		3
	One studio elective 2000 or higher within studio emphasis area. Choose from drawing, painting, printmaking, illustration, and ceramics/sculpture.		3
	Two upper-division Studio courses in One Emphasis Area Choose From: Drawing, Painting, Printmaking, Illustration, or Ceramics / Sculpture.		6
Prerequisite Secondary Education Requirements:			
	EDSP 3400	Exceptional Students	2
Secondary Education Licensure Requirements:			
	EDSC 3000	Educational Psychology	3
	EDSC 3050	Foundations of American Education	2
	EDSC 3250	Instructional Media	2
	EDSC 4200	Classroom Management I	2
	EDSC 4440	Content Area Literacies	3
	EDSC 4250	Classroom Management II	2
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, with a minimum of 40 credits of upper division credit.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Completion of GE and specified departmental requirements.
4. Portfolio Submission
5. Successful completion of at least one Global/Intercultural course

Art Education, B.S.

Careers

Careers:
Teaching art in a public, private, or charter school, K-12 is the most traditional way of using an Art Education degree. Other options students might consider include: teaching online, teaching preschool (or daycare), teaching private lessons to adults or children, teaching art at an after-school program, running education programs and teaching classes at art museums, starting a non-profit arts organization, teaching at non-traditional organization, being a guest artist or teacher, tutoring, teaching assistant, substitute teaching, retail craft coordinator, writing about art, or consultant for art supply catalog or store.

Related Careers

- Education Teachers, Postsecondary
- Art, Drama, and Music Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Art History, B.A.

Requirements

The Bachelors of Art in Art History degree at UVU offers a strong foundation in the study of art history and the liberal arts, with an emphasis on both intellectual and practical skills. The department offers an array of art history courses on topics ranging from ancient culture to contemporary art, as well as specialized courses on such relevant topics as museum studies and arts management.

Total Program Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	

	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution ¹	4
		Fine Arts	3
		Social/Behavioral Science	3
Discipline Core Requirements:			51 Credits
Art Studio Core: Complete one of the following--			3
	ART 1020	Basic Drawing for Non-Majors (3.0)	
	ART 1050	Photography I (3.0)	
	ART 1120	2D Design (3.0)	
	ART 1130	3 D Design (3.0)	
	ART 1340	Sculpture I (3.0)	
	ART 1350	Ceramics I (3.0)	
	ART 1650	Watermedia I (3.0)	
Art History foundation core: complete the following--			9
	ARTH 2710	History of Art to the Renaissance (3.0)	
	ARTH 2720	History of Art from the Renaissance (3.0)	
	ARTH 2800	Introduction to Art History Research and Methodology (3.0)	
Art History Upper Division: complete eleven courses from the following--			33
	ARTH 300R	Special Topics in Art History (3)	
	ARTH 3010	History of Design and Visual Arts (3.0)	
	ARTH 3015	Ancient Art of Egypt and the Near East (3.0)	
	ARTH 3020	Classical Art and Architecture History (3.0)	
	ARTH 3030	Medieval Art and Architecture History (3.0)	
	ARTH 3040	Renaissance Art History (3.0)	
	ARTH 3050	Baroque Art and Architecture History (3.0)	
	ARTH 3055	Northern Baroque Art History (3.0)	
	ARTH 3060	Nineteenth-Century Art History (3.0)	
	ARTH 3070	Modern Art and Architecture History (3.0)	
	ARTH 3080	History of Architecture (3.0)	
	ARTH 309G	Introduction to Non Western Ancient Art (3.0)	
	ARTH 3100	History of American Art and Architecture (3.0)	
	ARTH 3120	History of Contemporary Art (3.0)	
	ARTH 3200	The History of Photography (3.0)	
	ARTH 3300	Introduction to Museum Studies (3.0)	
	ARTH 3310	Art Theory and Criticism (3)	
	ARTH 3400	Arts Management (3.0)	
Seminars: complete a minimum of two--			6

	ARTH 391R	Art History Seminar (3.0)	
Elective Requirements:			33 Credits
1	One Foreign Language (1010, 1020, 2010 levels. German or French are recommended)		12
2	Complete any courses from Humanities, History, Philosophy, English, Art, or Art History (at least four courses must be 3000 level). The major adviser will have a list of approved courses.		21

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above and a grade point average of 3.0 (B) or above in all ARTH courses.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.
6. Portfolio Submission.

Footnote:
1-Fulfilled with Foreign Language 202G/2020

**Art History, B.A.
Careers**

Art historians preserve ideas and artifacts for future generations, and they teach others to appreciate art, culture, and cultural history. The Bachelors of Art in Art History degree helps students prepare for a range of arts-related jobs, including art dealership, art directorship, art education, and work in museums and galleries. It also provides the necessary foundation for graduate studies in art history, which in turn, prepares one for a career in post-secondary teaching, museum curatorship, and museum directorship. Finally, the degree helps students prepare for graduate work in correlated fields, such as art restoration, arts management, library studies, international business, and legal studies.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Archivists
- Curators
- Museum Technicians and Conservators

**Art and Design - Graphic Design Emphasis,
B.F.A.**

Requirements

Situated in the heart of the "Silicon Slopes," UVU's graphic design program is uniquely situated to offer students cutting-edge learning, internship, and job-placement opportunities. As students use the latest software to practice communicating creatively using typography and imagery, they learn to approach problem solving from marketing and artistic standpoints that resonate with target audiences. Courses emphasize creative, concept-intensive communication, and effective design implementation in both print and interactive design.

Total Program Credits: 120

Matriculation Requirements:			
1.	AA, AS, or AAS Degree or equivalent in Art and Design or advisor approval (Graphic Design Emphasis B.F.A. candidates must complete the AAS Degree or equivalent in Graphic Design)		
2.	Portfolio Review		
General Education Requirements:			
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:			3

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	MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution	3
	ARTH 2710	History of Art to the Renaissance	3
		Social/Behavioral Science	3
Discipline Core Requirements:			26 Credits
	ART 1110	Drawing I ¹	3
	ART 1120	2D Design ¹	3
	ART 1130	3 D Design ¹	3
	ART 1400	Graphic Computer Applications ¹	3
	ART 200R	Art and Design Lecture Series (Must be taken 2 times)	2
	ART 499R	BFA Project (must be taken in two consecutive semesters)	6
	ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following: ¹			3
	ART 1210	Spatial Drawing (3.0)	
	ART 1350	Ceramics I (3.0)	
	ART 1420	Graphic Design I (3)	
	ART 1650	Watermedia I (3.0)	
	ART 1750	Intro to Digital Imaging	
Emphasis Requirements:			50 Credits
	ART 1410	Typography I	3

	ART 1420	Introduction to Graphic Design	3
AAS Portfolio Review			
Lower Division Core			
	DGM 2120	Web Essentials	3
	ART 2280	3D Computer Modeling	3
	ART 2400	Production Design	3
	ART 2430	Branding I	3
	ART 2440	Motion Graphics I	3
BFA Portfolio Review			
Upper Division Core			
	ART 3420	Typography II	3
	ART 3440	Motion Graphics II	3
	ART 3450	Branding II	3
	ART 3480	UI/UX Design II	3
Art History Requirements			
	ARTH 3010	History of Design and Visual Arts	3
	ARTH 3070	Modern Art and Architecture History	3
Capstone Requirements			
	ART 443R	Design Studio	3
	ART 481R	Art and Design Internship (1.0)	2
Complete 2 of the following:			6
	ART 4440	Motion Graphics Studio (3.0)	
	ART 4480	UI/UX Studio (3.0)	
	ART 443R	Design Studio (3.0)	
Emphasis Elective Requirements:			9 Credits
	Complete any ART/ARTH courses not already used (5 credits must be upper division)		9

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes

1- Minimum grade of B- required.

Art and Design - Graphic Design Emphasis, B.F.A. Careers

Careers:

Students are prepared to compete for employment at advertising agencies, design studios, in-house design departments, publishing firms, printing firms, and for freelance consulting work (self-employed). Some students may also choose to further their studies in graduate programs. The types of job responsibilities could include branding/identity design, web and interactive design, information design and data visualization, digital and traditional publishing, advertising design, and motion design.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design - Illustration Emphasis, B.F.A.

Requirements

The program is ideal for students wanting to pursue careers in traditional illustration, digital illustration, or animation. In addition to working with faculty who are professionals in their fields, students have access to the best software in the industry. Courses in figure drawing, children's book illustration, anatomy and figure structure, flash animation, 3-D computer rendering, and advanced illustration are just a few of the classes available to students. The courses offer a well-rounded and practical learning experience. Students in the illustration program benefit from interaction with instructors who are nationally known professional illustrators.

Total Program Credits: 120

Matriculation Requirements:		
1.	AA, AS, or AAS Degree or equivalent in Art and Design or advisor approval (Graphic Design Emphasis B.F.A. candidates must complete the AAS Degree or equivalent in Graphic Design)	
2.	Portfolio Review	
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3

Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
ARTH 2710	History of Art to the Renaissance	3
Social/Behavioral Science		3
Discipline Core Requirements:		26 Credits
ART 1110	Drawing I ¹	3
ART 1120	2D Design ¹	3
ART 1130	3 D Design ¹	3
ART 1400	Graphic Computer Applications ¹	3
ART 200R	Art and Design Lecture Series (Must be taken 2 times)	2
ART 499R	BFA Project (must be taken in two consecutive semesters)	6
ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following: ¹		3
ART 1210	Spatial Drawing (3.0)	
ART 1350	Ceramics I (3.0)	
ART 1420	Introduction to Graphic Design (3.0)	
ART 1650	Watermedia I (3.0)	
ART 1750	Intro to Digital Imaging (3.0)	
Emphasis Requirements:		39 Credits
ART 1210	Spatial Drawing	3
ART 2220	Imagination and Visual Literacy	3
ART 2230	Illustrative Media and Techniques I	3
ART 2240	Illustrative Media and Techniques II	3
ART 2260	Digital Painting for Illustration I	3
ART 2270	Figure Drawing I	3
ART 3210	Narrative Illustration	3
ART 3220	Conceptual Illustration	3
ART 327R	Rendering the Human Head	3
ART 361R	Figure Drawing II	3
ART 421R	Advanced Illustration	3
ART 470R	Figure Drawing III	3
ARTH 3110	The History of Illustration	3
Emphasis Elective Requirements:		20 Credits
Take an additional 12 credits from the classes below.		12
ART 2280	3D Computer Modeling (3.0)	
ART 324R	Children's Book Illustration (3.0)	
ART 328R	Painting the Human Head (3.0)	
ART 364R	Figure Painting (3.0)	
ART 325R	Flash Animation for Illustration (3.0)	
ART 3260	Digital Painting for Illustration II (3.0)	
ART 3270	Digital Illustration (3.0)	
ART 3280	3D Computer Rendering (3.0)	
ART 426R	Concept Design I (3.0)	

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ART 427R	Concept Design II (3.0)	
ART 429R	3D Illustration (3.0)	
Complete any ART/ARTH courses not already used (4 credits must be upper division).		8

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes

- 1- Minimum grade of B- required

Art and Design - Illustration Emphasis, B.F.A. Careers

Careers:

Students are prepared to compete for employment creating concepts, illustrations, backgrounds, textures, and more in the areas of gaming development, animation, and for freelance consulting work (self-employed) creating illustrations for books (children's, graphic novels, etc.), magazines (both traditional and online), storyboarding, advertising. Some students may also choose to further their studies in graduate programs. Many employment opportunities will be a combination of freelance, part time employment, and/or full time employment. For example, a concept artist may be in a full time position for the duration of a large project but may freelance or be employed part time on smaller similar projects.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design - Painting and Drawing Emphasis, B.F.A.

Requirements

Within the painting/drawing program, students emphasize one of four areas: drawing, watermedia, painting, or printmaking. In their senior year, B.F.A. students receive one-on-one instruction from the professor of their choice. Students explore their personal artistic identity while learning the rigor and attention to detail needed to put together a solo exhibition as their culminating experience.

Total Program Credits: 120

Matriculation Requirements:		
1.	AA, AS, or AAS Degree or equivalent in Art and Design or advisor approval (Graphic Design Emphasis B.F.A. candidates must complete the AAS Degree or equivalent in Graphic Design)	
2.	Portfolio Review	
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3

ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
MATH 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1040	Introduction to Statistics with Algebra (5.0)	
STAT 1045	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business, Education, Science, and Health Professions majors) (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
ARTH 2710	History of Art to the Renaissance	3
Social/Behavioral Science		3
Discipline Core Requirements:		26 Credits
ART 1110	Drawing I ¹	3
ART 1120	2D Design ¹	3
ART 1130	3 D Design ¹	3
ART 1400	Graphic Computer Applications ¹	3
ART 200R	Art and Design Lecture Series (Must be taken 2 times)	2
ART 499R	BFA Project (must be taken in two consecutive semesters)	6
ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following: ¹		3
ART 1210	Spatial Drawing (3.0)	
ART 1350	Ceramics I (3.0)	
ART 1420	Introduction to Graphic Design (3.0)	
ART 1650	Watermedia I (3.0)	

	ART 1750	Intro to Digital Imaging (3.0)	
Emphasis Requirements:			36 Credits
Students emphasizing a 2-D area complete the following:			
	ART 1650	Watermedia I	3
	ART 2110	Drawing II	3
	ART 2620	Color Theory	3
	ART 2630	Painting I	3
	ART 2640	Painting II	3
	ART 2650	Watermedia II	3
	ART 2680	Printmaking I	3
	ART 367R	Printmaking II	3
	ARTH 3070	Modern Art and Architecture History	3
	ARTH 3120	History of Contemporary Art	3
Complete two classes from the following:			6
	ARTH 3020	Classical Art and Architecture History (3.0)	
	ARTH 3030	Medieval Art and Architecture History (3.0)	
	ARTH 3040	Renaissance Art History (3.0)	
	ARTH 3050	Baroque Art and Architecture History (3.0)	
	ARTH 3060	Nineteenth-Century Art History (3.0)	
	ARTH 3100	History of American Art and Architecture (3.0)	
Emphasis Elective Requirements:			26 Credits
Complete one specialization for a total of 9 credits.			9
Drawing			
	ART 311R	Drawing III (may be taken twice) (3.0)	
	ART 411R	Drawing IV (may be taken twice) (3.0)	
Watermedia			
	ART 365R	Watermedia III (may be taken twice) (3.0)	
	ART 465R	Watermedia IV (may be taken twice) (3.0)	
Painting			
	ART 363R	Painting III (may be taken twice) (3.0)	
	ART 369R	Contemporary Figure Painting (3.0) (may be taken thrice)	
	ART 463R	Painting IV (3.0) (may be taken twice)	
Printmaking			
	ART 368R	Printmaking III (may be taken twice) (3.0)	
	ART 468R	Printmaking IV (may be taken twice) (3.0)	
Complete 12.0 elective credits from upper-division Painting/ Drawing 2D courses not previously taken.			12
Complete any ART/ARTH courses not already used (must be upper division)			2

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes
1- Minimum grade of B- required.

Art and Design - Painting and Drawing Emphasis, B.F.A. Careers

Careers:
Students are prepared to compete in the arts arena typically via self-employment by promoting their work through galleries, museums, exhibitions, commissions fairs and festivals. Other opportunities include teaching private lessons and working in related fields in museums and galleries. Some students also choose to pursue graduate studies to further their development or to prepare them to teach in higher education. Areas of study include painting, drawing, printmaking.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design - Photography Emphasis, B.F.A. Requirements

UVU's photography program teaches the language of photography. Students will take courses to diversify their skill set in the creation and appreciation of different approaches to photography. They will work with film, historic photographic processes, and cutting edge digital technology. Students learn about and work in commercial and fine art environments. They will be taught working methods in the darkroom, studio lighting techniques, motion, and digital manipulation. The photo program emphasizes a hands-on and engaged approach. We actively look for opportunities to get our students on location and into real world scenarios through internships, study abroad programs, service oriented programs, and classes taught off campus.

Total Program Credits: 120

Matriculation Requirements:			
1. AA, AS, or AAS Degree or equivalent in Art and Design or advisor approval (Graphic Design Emphasis B.F.A. candidates must complete the AAS Degree or equivalent in Graphic Design)			
2. Portfolio Review			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	

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	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	ARTH 2710	History of Art to the Renaissance	3
	Social/Behavioral Science		3
Discipline Core Requirements:			26 Credits
	ART 1110	Drawing I ¹	3
	ART 1120	2D Design ¹	3
	ART 1130	3 D Design ¹	3
	ART 1400	Graphic Computer Applications ¹	3
	ART 200R	ART and Design Lecture Series (Must be taken 2 times)	2
	ART 499R	BFA Project (must be taken in two consecutive semesters)	6
	ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following: ¹			3
	ART 1210	Spatial Drawing (3.0)	
	ART 1350	Ceramics I (3.0)	
	ART 1420	Introduction to Graphic Design (3.0)	
	ART 1650	Watermedia I (3.0)	
	ART 1750	Intro to Digital Imaging (3.0)	
Emphasis Requirements:			15 Credits
Complete the following:			
	ART 1790	Dark Room Techniques	3
	ART 2700	Photography II	3
	ART 2710	Documentary Photography	3
	ART 2720	Color Photography	3
	ART 2730	Photographic Lighting I	3
Emphasis Elective Requirements:			44 Credits
	ARTH 3200	The History of Photography	3
	ART 371R	Historical Photographic Processes	3

	ART 3730	Photographic Lighting II	3
	ART 3740	Fine Art Photography	3
	ART 3750	Advanced Digital Imaging	3
	ART 471R	Photographic Illustration	3
	ART 474R	Advanced Photo Studies	3
	ART 4750	Exploratory Photographic Processes	3
	ART 481R	Art and Design Internship	2
Complete any ART/ARTH courses not already used (6 credits must be upper division).			15
Take ONE of the following classes:3			3
	ARTH 3400	Arts Management (3.0)	
	ARTH 3310	Art Theory and Criticism (3.0)	
	ARTH 3120	History of Contemporary Art (3.0)	
	ARTH 3040	Renaissance Art History (3.0)	
	ARTH 3050	Baroque Art and Architecture History (3.0)	
	ARTH 3060	Nineteenth-Century Art History (3.0)	
	ARTH 3070	Modern Art and Architecture History (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes

1- Minimum grade of B- required.

Art and Design - Photography Emphasis, B.F.A. Careers

Careers:

Students are prepared to compete in the photo area generally through free-lance work in areas such as advertising, stock images, weddings, documentary, portraiture etc. They may also look at in-house photography departments or studios. Students may also choose to promote their work to galleries, museums, exhibitions, commissions.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design - Sculpture and Ceramics Emphasis, B.F.A.

Requirements

UVU's BFA in ceramics and sculpture helps students build a strong foundation of design fundamentals, technical skills, and the use of materials. Whether throwing clay on a potter's wheel or listening to a class lecture, students discover endless sources of

creative ideas while taking courses in low-fire ceramics, mold making, casting, ceramic technologies, and more.

Total Program Credits: 120

Matriculation Requirements:		
1. AA, AS, or AAS Degree or equivalent in Art and Design or advisor approval (Graphic Design Emphasis B.F.A. candidates must complete the AAS Degree or equivalent in Graphic Design)		
2. Portfolio Review		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
ARTH 2710	History of Art to the Renaissance	3
	Social/Behavioral Science	3
Discipline Core Requirements:		26 Credits
ART 1110	Drawing I ¹	3
ART 1120	2D Design ¹	3
ART 1130	3 D Design ¹	3
ART 1400	Graphic Computer Applications ¹	3

ART 200R	Art and Design Lecture Series (Must be taken 2 times)	2
ART 499R	BFA Project (must be taken in two consecutive semesters)	6
ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following: ¹		3
ART 1210	Spatial Drawing (3.0)	
ART 1350	Ceramics I (3.0)	
ART 1420	Introduction to Graphic Design (3.0)	
ART 1650	Watermedia I (3.0)	
ART 1750	Intro to Digital Imaging (3.0)	
Emphasis Requirements:		45 Credits
Students emphasizing 3-D art complete the following (either ART 334R or ART 335R must be repeated):		
ART 1340	Sculpture I	3
ART 1350	Ceramics I	3
ART 1650	Watermedia I	3
ART 2340	Sculpture II	3
ART 2350	Ceramics II	3
ART 2630	Painting I	3
ART 2680	Printmaking I	3
ART 3800	Low-Fire Ceramics	3
ART 3810	Ceramic Technologies	3
ART 4360	Mold Making and Casting	3
ART 4370	Hand Building Ceramics	3
ART 3005	Ceramic History Trends and Practices	3
Complete 9.0 credits of the following, with no more than 6.0 credits in one course.		9
ART 334R	Sculpture III (3.0)	
ART 335R	Ceramics III (3.0)	
Emphasis Elective Requirements:		14 Credits
Two upper-division Art History classes (6 credits)		6
Complete any ART/ARTH courses not already used (4 credits must be upper division).		8

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall GPA of 2.0 or above with 3.0 GPA or above in ART & ARTH courses. Courses within the student's area of emphasis must be completed with a C grade or above.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. 4 Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio submission required during senior year.
7. Successful completion of at least one Global/Intercultural course.

Footnotes

1- Minimum grade of B- required.

Art and Design

Art and Design - Sculpture and Ceramics Emphasis, B.F.A.

Careers

Careers:	
Students are prepared to compete in the arts arena typically via self-employment by promoting their work through galleries, museums, exhibitions, commissions fairs and festivals. Other opportunities include teaching private lessons and working in related fields in museums and galleries. Some students also choose to pursue graduate studies to further their development or to prepare them to teach in higher education. Areas of study include sculpture and ceramics.	

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design, B.A.

Requirements

Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3

Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution (fulfilled with Foreign Language 202G/2020)		4
ARTH 2710	History of Art to the Renaissance	3
Social/Behavioral Science		3
Discipline Core Requirements:		47 Credits
ART 1110	Drawing I ¹	3
ART 1120	2D Design ¹	3
ART 1130	3 D Design ¹	3
ART 1400	Graphic Computer Applications ¹	3
ART 200R	Art and Design Lecture Series	2
ART 4890	Senior Seminar	3
ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following: ¹		3
ART 1210	Spatial Drawing (3.0)	
ART 1350	Ceramics I (3.0)	
ART 1420	Graphic Design I (3.0)	
ART 1650	Watermedia I (3.0)	
ART 1750	Intro to Digital Imaging (3.0)	
Complete 24 credits from any ART/ARTH courses not already taken (students must have 40 upper division credit hours to graduate, see Graduation Requirement 1).		24
Elective Requirements:		37 Credits
One Foreign Language		12
Complete any courses 1000 level or higher (students must have 40 upper division credit hours to graduate, see Graduation Requirement 1).		25

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a C- in all Art & Design courses.
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio Submission.
7. Successful completion of at least one Global/Intercultural course.
8. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.

Footnotes
1- Minimum grade of B- required

Art and Design, B.A.

Careers

Careers:
A degree in art provides training in creative and critical thinking, problem solving and visual communication, providing a sound background for careers both in and outside of the arts. Careers could include working with arts organizations, museums, or non-

profit groups. While the BFA degrees provide specific professional training, Bachelor of Science students who have taken a number of classes in a specific area may also be qualified for jobs in the fields of graphic design, photography and illustration, or opportunities to submit work to galleries, museums, exhibitions, commissions fairs and festivals.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Art and Design, B.S.

Requirements

Students who elect to earn a bachelor of arts or associate of arts degree are required to complete a foreign language requirement, while those who earn a bachelor of science or associate of science degree have the option to take more electives. All of these degrees allow students to explore a few areas within the department and gain a more well-rounded education in the visual arts.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
ARTH 2710	History of Art to the Renaissance	3
Social/Behavioral Science		3

Discipline Core Requirements:		47 Credits
ART 1110	Drawing I ¹	3
ART 1120	2D Design ¹	3
ART 1130	3 D Design ¹	3
ART 1400	Graphic Computer Applications ¹	3
ART 200R	Art and Design Lecture Series	2
ART 4890	Senior Seminar	3
ARTH 2720	History of Art from the Renaissance	3
Complete 3 credits from one of the following: ¹		3
ART 1210	Spatial Drawing (3.0)	
ART 1350	Ceramics I (3.0)	
ART 1420	Graphic Design I (3.0)	
ART 1650	Watermedia I (3.0)	
ART 1750	Intro to Digital Imaging (3.0)	
Complete 24 credits from any ART/ARTH courses not already taken (see Graduation Requirement 1).		24
Elective Requirements:		38 Credits
Complete any courses 1000 level or higher (students must have 40 upper division credit hours to graduate, see Graduation Requirement 1).		38

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, with a minimum of 40 of upper division credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. ART 1110, ART 1120, ART 1130, ART 1400 and one of the following: ART 1050, ART 1350, ART 1420, or ART 1650 must be completed with a B- or higher before being formally admitted to the program.
4. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Portfolio Submission.
7. Successful completion of at least one Global/Intercultural course.

Footnotes
1- Minimum grade of B- required

Art and Design, B.S.

Careers

Careers:
A degree in art provides training in creative and critical thinking, problem solving and visual communication, providing a sound background for careers both in and outside of the arts. Careers could include working with arts organizations, museums, or non-profit groups. While the BFA degrees provide specific professional training, Bachelor of Science students who have taken a number of classes in a specific area may also be qualified for jobs in the fields of graphic design, photography and illustration, or opportunities to submit work to galleries, museums, exhibitions, commissions fairs and festivals.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Commercial and Industrial Designers
- Graphic Designers
- Set and Exhibit Designers
- Designers, All Other

Automotive Technology

Name:	Automotive Technology
Location:	SA 325
Telephone:	801-863-8349
Email:	daviska@uvu.edu
Web Address:	uvu.edu/auto
Chair:	Don Wilson

Mission Statement

The mission of the UVU Automotive Department is to conduct academic and applied teaching. The training programs provide qualified employees for entry level positions in all categories of the Automotive, Collision / Refinish, and Diesel repair technology industries. These programs will afford students the opportunity to attain a one, two, and/or four-year degree at the completion of their training. The training provided will have an emphasis on basic skills and principles which will allow participants to adapt to new and ever changing technologies. Current and foreseeable technology will be utilized in presenting and practicing basic performance skills.

College of Technology & Computing

- **Administrative Support:** Katreena Davis
- **Office:** SA 325
- **Telephone:** 801-863-8349
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Automotive Technology

- **Program Coordinator:** Paul Bean
- **Office:** SA 320
- **Telephone:** 801-863-8243
- **Email:** Paul.Bean@uvu.edu

Advisory Committee:

Dave Johnson, DJ Auto; Dustin Sweeten, Powerhouse Motorsports;; Chet Milburn, Factory Motorparts; Mike Powell, Torque Shop; Tim Urry, LH Miller Ford, Jeff Smith, Utah County Health; Stephen Ilmburgers, Larry Miller Dodge; Saul Mantano, Community Member.

Collision Repair Technology

- **Program Coordinator:** Terrance Orr
- **Office:** SA 326a
- **Telephone:** 801-863-8268 or 801-863-8349
- **Email:** orrt@uvu.edu

Advisory Committee:

Garth Dixon, Geico; Brandon Naef, Service King; Rich Walker, ABRA Autobody & Glass; Greg Peters, ABRA Autobody & Glass; Don Edmunds, Bear River Mutual Insurance; Jason Proctor, ABRA Autobody & Glass; Travis Olson, Transstar Autobody Technologies; Chuck Wyland, ABRA Autobody & Glass; Brian Nichols, Casacade Collision; Ed Pearler, Geico; Kyle Long, Geico; Cory Giles, Kent Industries

Diesel Mechanics Technology

- **Program Coordinator:** Kelvyn Blackhurst
- **Office:** SA 319a

- **Telephone:** 801-863-8240 or 801-863-8349
- **Email:** blackhke@uvu.edu

Advisory Committee:

Terry Smith, Utah Trucking Association;; Mike Hanyon, Extreme Diesel; Casey Muhlstein, Muhlstein Diesel Repair; Dave Anderson, Geneva Rock; Mark Hadley, Jackson Group Peterbilt; Angela Warner, Larry Miller Ford.

DEPARTMENT CHAIR

WILSON, Don Associate Professor

FACULTY

BEAN, Paul Associate Professor

BLACKHURST, Kelvyn A. Associate Professor

BOGGESE, Cris Dee Associate Professor

BOHL, Dean Associate Professor

HASARA, Matthew Lecturer

HOLM, Jeff Presidential Faculty in Residence

LOW, Todd Professor

MOORE, Thomas Lecturer

ORR, Terrance Associate Professor

TAYLOR, Zachery Assistant Professor

WALKER, Kent Associate Professor

WILSON, Don Associate Professor

Course Descriptions

Auto Mechanics.....	590
Collision Repair Technology.....	627
Diesel Mechanics.....	655
Automotive Power Sports.....	791

Degrees & Programs

Automotive Power Sports, A.A.S.

Requirements

The AAS in Automotive Power Sports is designed to train technicians in the field of maintenance and repair of personal transportation craft and multi person transportation vehicles that are currently outside the realm of automotive. The degree includes: on road alternative vehicles (side by sides), personal watercraft, All Terrain Vehicle (ATV) and Utility Terrain Vehicle (UTV), snow machines, lawn and garden systems, and motorcycle technology. Graduates will gain an in-depth understanding of alternative transportation vehicles utilizing hands-on, performance based training.

A sales and service business skills course will also aid students to acclimate from school training to a live repair facility. Students will receive training in four-stroke and two-stroke engines, continuous variable transmissions (CVT), suspension and braking systems, composite repairs, and small engine electronic systems.

Total Program Credits: 63

General Education Requirements:		17 Credits
	AUT 1260 Tech Math for Mechanics	3
or	MAT 1010 Intermediate Algebra (4.0)	
	MKTG 2200 Written Business Communication	3
or	ENGL 1010 Introduction to Writing (3.0)	
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	3
	Any approved Behavioral Science, Social, or Political Science Distribution Course	3

	Any approved Biology or Physical Science Distribution Course	3
	Any approved Physical Education, Health, Safety, or Environment Course	2
Discipline Core Requirements:		46 Credits
AUT 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
CRT 2400	Plastic Paintless Dent Repair	2
CRT 240L	Plastic Paintless Dent Repair	1
CRT 1230	Welding and Cutting	2
CRT 123L	Welding and Cutting Lab	1
PST 1110	Two Stroke Engine Systems	2
PST 1115	Two Stroke Engine Systems Lab	1
PST 1210	Four Stroke Small Engine Systems	2
PST 1215	Four Stroke Small Engine Systems Lab	1
PST 1120	Constant Velocity Transmissions and Drive Systems	2
PST 1125	Constant Velocity Transmissions and Drive Systems Lab	1
PST 2110	Snowmobile Systems	2
PST 2115	Snowmobile Systems Lab	1
PST 2120	ATV and UTV Systems	2
PST 2125	ATV and UTV Systems Lab	1
PST 2130	Small Motorcycles and Scooters	2
PST 2135	Small Motorcycles and Scooters Lab	1
PST 2230	Street and Sport Motorcycles	2
PST 2235	Street and Sport Motorcycle Lab	1
PST 2240	Outdoor Power Equipment	2
PST 2245	Outdoor Power Equipment Systems Lab	1
PST 2250	Personal Watercraft	2
PST 2255	Personal Watercraft Systems Lab	1
AUT 285R	Cooperative Correlated Class ¹	1

Graduation Requirements:

1. Completion of a minimum of 63 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements

Footnote:

¹ Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program coordinator must be secured before class enrollment.

Automotive Power Sports, A.A.S.

Careers

Careers:

Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers

- Motorboat Mechanics and Service Technicians
- Outdoor Power Equipment and Other Small Engine Mechanics

Automotive Technology, A.A.S.

Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associate in Applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 64

General Education Requirements:		16 Credits
MKTG 2200	Written Business Communication	3
AUT 1260	Tech Math for Mechanics	3
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		3
Any approved Behavioral Science, Social, or Political Science Distribution Course		3
Any approved Biology or Physical Science Distribution Course		3
Any approved Physical Education, Health, Safety, or Environment Course		1
Discipline Core Requirements:		40 Credits
AUT 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1120	Manual Power Trains	2
AUT 112L	Manual Power Trains Lab	1
AUT 1130	Engine Repair	2
AUT 113L	Engine Repair Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
AUT 1220	Automatic Transmissions and Transaxles	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2
AUT 123L	Engine Performance Lab	1
AUT 2110	Advanced Steering Suspension and Alignment	2
AUT 2120	Advanced Engine Performance	2

Automotive Technology

	AUT 2130	Advanced Emission Control Systems	2
	AUT 2140	Chassis Electrical and Electronics Systems	2
	AUT 2210	Advanced Braking and Control Systems	2
	AUT 2220	Automatic Transmissions and Electronic Controls	2
	AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
	AUT 2250	Electronic Fuel Management Systems (2.0)	
or	AUT 2350	Electronic Diesel Fuel Management Systems	2
Complete 8 credits from the following:			8
	AUT 201L	Automotive Service Practicum Engine Performance and Steering Suspension (2.0)	
	AUT 202L	Automotive Service Practicum Emission Controls and Chassis Electronics (2.0)	
	AUT 203L	Automotive Service Practicum Brake Systems and Transmission Controls (2.0)	
	AUT 204L	Automotive Service Practicum Fuel Management Systems and HVACR (2.0)	
	AUT 281R	Cooperative Work Experience (1.0)	

Graduation Requirements:

1. Completion of a minimum of 64 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements

Automotive Technology, A.A.S.

Careers

Careers:
Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Automotive Technology, A.S.

Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 60

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3

or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	POLS 1000	American Heritage (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			16 Credits
	Choose from AUT or related 1000 level or higher courses		16
Elective Requirements:			9 Credits
	Choose electives from 1000 level or higher courses		9

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Automotive Technology, A.S.

Careers

Careers:
Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized

electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Collision Repair Technology - Collision Repair Emphasis, A.A.S.

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 64

General Education Requirements:		16 Credits
MKTG 2200	Written Business Communication	3
AUT 1260	Tech Math for Mechanics	3
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		3
Any approved Behavioral Science, Social, or Political Science Distribution Course		3
Any approved Biology or Physical Science Distribution Course		3
Any approved Physical Education, Health, Safety or Environment Course		1
Discipline Core Requirements:		24 Credits
Complete the following:		
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L	Automotive HVAC Lab	1
CRT 1110	Surface Preparation	2
CRT 111L	Surface Preparation Lab	1
CRT 1120	Nonstructural Repair	2
CRT 112L	Nonstructural Repair Lab	1
CRT 1130	Overall Refinishing and Problem Solving	2
CRT 113L	Overall Refinishing and Problem Solving Lab	1
CRT 1140	Panel Replacement and Adjustment	2
CRT 114L	Panel Replacement and Adjustment Lab	1
CRT 1210	Blending Tinting and Detailing	2
CRT 121L	Blending Tinting and Detailing Lab	1
CRT 1230	Welding and Cutting	2
CRT 123L	Welding and Cutting Lab	1
CRT 281R	Cooperative Work Experience (1.0) *	
CRT 285R	Cooperative Correlated Class (1.0) *	
CRT 299R	VICA (optional) (1.0)	
Emphasis Requirements:		24 Credits
CRT 2310	Collision Damage Reporting	2
CRT 2320	Structural Damage Analysis	2

CRT 2330	Structural Repair	2
CRT 2340	Full and Partial Panel Replacement	2
CRT 2400	Plastic Paintless Dent Repair	2
CRT 2440	Mechanical Advanced Vehicle Systems	2
CRT 2450	Bags Brakes Steering	2
CRT 2630	Detailing and Custom Painting	2
CRT 231L	Collision Damage Reporting Lab	1
CRT 232L	Structural Damage Analysis Lab	1
CRT 233L	Structural Repair Lab	1
CRT 234L	Full and Partial Panel Replacement Lab	1
CRT 240L	Plastic PaintLess Dent Repair Lab	1
CRT 244L	Mechanical Advanced Vehicle Systems Lab	1
CRT 245L	Bags Brakes Steering Lab	1
CRT 263L	Detailing and Custom Painting Lab	1

Footnote

* Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program coordinator must be secured before class enrollment.

Collision Repair Technology - Collision Repair Emphasis, A.A.S. Careers

Careers:

The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Collision Repair Technology - Street Rod Emphasis, A.A.S.

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 64

General Education Requirements:		16 Credits
MKTG 2200	Written Business Communication	3
AUT 1260	Tech Math for Mechanics	3
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		3
Any approved Behavioral Science, Social, or Political Science Distribution Course		3

Automotive Technology

	Any approved Biology or Physical Science Distribution Course	3	
	Any approved Physical Education, Health, Safety or Environment Course	1	
Discipline Core Requirements:		24 Credits	
Complete the following:			
	AUT 1160	Automotive Electrical Systems	2
	AUT 116L	Automotive Electrical Systems Lab	1
	AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
	AUT 224L	Automotive HVAC Lab	1
	CRT 1110	Surface Preparation	2
	CRT 111L	Surface Preparation Lab	1
	CRT 1120	Nonstructural Repair	2
	CRT 112L	Nonstructural Repair Lab	1
	CRT 1130	Overall Refinishing and Problem Solving	2
	CRT 113L	Overall Refinishing and Problem Solving Lab	1
	CRT 1140	Panel Replacement and Adjustment	2
	CRT 114L	Panel Replacement and Adjustment Lab	1
	CRT 1210	Blending Tinting and Detailing	2
	CRT 121L	Blending Tinting and Detailing Lab	1
	CRT 1230	Welding and Cutting	2
	CRT 123L	Welding and Cutting Lab	1
	CRT 281R	Cooperative Work Experience (1.0) *	
	CRT 285R	Cooperative Correlated Class (1.0) *	
	CRT 299R	VICA (optional) (1.0)	
Emphasis Requirements:		24 Credits	
Complete the following:			
	CRT 2510	Custom Welding	2
	CRT 251L	Custom Welding Lab	1
	CRT 2530	Panel Fabrication	2
	CRT 253L	Panel Fabrication Lab	1
	CRT 2520	Customizing	2
	CRT 252L	Customizing Lab	1
	CRT 2640	Panel Fabrication of Aluminum	2
	CRT 264L	Panel Fabrication of Aluminum Lab	1
	CRT 2610	Top Chopping Sectioning and Channeling	2
	CRT 261L	Top Chopping Sectioning and Channeling Lab	1
	CRT 2620	Frames	2
	CRT 262L	Frames Lab	1
	CRT 2630	Detailing and Custom Painting	2
	CRT 263L	Detailing and Custom Painting Lab	1
	CRT 2650	Automotive Interior Design	2
	CRT 265L	Automotive Interior Design Lab	1

Footnote

*	Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program
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coordinator must be secured before class enrollment.

Collision Repair Technology - Street Rod Emphasis, A.A.S. Careers

Careers:

The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers

- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment

Diesel Mechanics Technology, A.A.S.

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 64

General Education Requirements:		16 Credits	
	MKTG 2200	Written Business Communication	3
	AUT 1260	Tech Math for Mechanics	3
or	MAT 1000	Integrated Beginning and Intermediate Algebra (5.0)	
or	Any higher MAT or MATH course		
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		3
	Any approved Behavioral Science, Social, or Political Science Distribution Course		3
	Any approved Biology or Physical Science Distribution Course		3
	Any approved Physical Education, Health, Safety or Environment Course		1
Discipline Core Requirements:		48 Credits	
	DMT 1110	Diesel Engine Overhaul	4
	DMT 111L	Diesel Engine Overhaul Lab	2
	DMT 1120	Diesel Engine Operation/Tune Up	4
	DMT 112L	Diesel Engine Operation/Tune-up Lab	2
	DMT 1510	Electrical Systems Theory	4
	DMT 151L	Electrical Systems Lab	2
	DMT 1520	Engine Electronics and Diagnostics Theory	4
	DMT 152L	Engine Electronics and Diagnostics	2
	DMT 2230	Heating Ventilation Air Conditioning and Refrigeration Theory	2
	DMT 223L	Climate Control Lab	1
	DMT 2310	Fluid Power Theory	4
	DMT 231L	Fluid Power Lab	2

DMT 2320	Fluid Power Transmission Theory	2
DMT 232L	Fluid Power Transmission Lab	1
DMT 2410	Chassis Theory	4
DMT 241L	Chassis Lab	2
DMT 2420	Power Trains Theory	4
DMT 242L	Power Trains Lab	2

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Diesel Mechanics Technology, A.A.S. Careers

Careers:
Diesel technology students may be hired as mechanics working on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. They work on heavy equipment, farm equipment, and on-highway trucks. Diesel mechanics diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators. Students pursuing a Bachelor of Science degree in Technology management can expect opportunities as shop managers, service writers, equipment managers, fleet managers and product development.

Related Careers

- Bus and Truck Mechanics and Diesel Engine Specialists

Automotive Technology, Certificate of Completion

Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 32

Discipline Core Requirements:		32 Credits
AUT 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1120	Manual Power Trains	2
AUT 112L	Manual Power Trains Lab	1
AUT 1130	Engine Repair	2
AUT 113L	Engine Repair Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
AUT 1220	Automatic Transmissions and Transaxles	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2

AUT 123L	Engine Performance Lab	1
AUT 1260	Tech Math for Mechanics	3
MKTG 2200	Written Business Communication	3
Any approved Behavioral Science, Social, or Political Science Distribution course		2

Graduation Requirements:

1. Completion of a minimum of 32 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU
4. Completion of specified departmental requirements

Automotive Technology, Certificate of Completion Careers

Careers:
Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Collision Repair Technology, Certificate of Completion

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 32

Discipline Core Requirements:		32 Credits
Complete the following:		
AUT 1260	Tech Math for Mechanics	3
MKTG 2200	Written Business Communication	3
Any approved Behavioral Science, Social, or Political Science Distribution Course		2
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L	Automotive HVAC Lab	1
CRT 1110	Surface Preparation	2
CRT 111L	Surface Preparation Lab	1
CRT 1120	Nonstructural Repair	2
CRT 112L	Nonstructural Repair Lab	1
CRT 1230	Welding and Cutting	2

Automotive Technology

	CRT 123L	Welding and Cutting Lab	1
	CRT 1140	Panel Replacement and Adjustment	2
	CRT 114L	Panel Replacement and Adjustment Lab	1
	CRT 1130	Overall Refinishing and Problem Solving	2
	CRT 113L	Overall Refinishing and Problem Solving Lab	1
	CRT 1210	Blending Tinting and Detailing	2
	CRT 121L	Blending Tinting and Detailing Lab	1

Graduation Requirements:

1. Completion of a minimum of 32 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU
4. Note: Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements.

Collision Repair Technology, Certificate of Completion Careers

Careers:

The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers

- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment

Diesel Mechanics Technology, Certificate of Completion

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 32

Discipline Core Requirements:			32 Credits
	DMT 1110	Diesel Engine Overhaul	4
	DMT 111L	Diesel Engine Overhaul Lab	2
	DMT 1120	Diesel Engine Operation/Tune Up	4
	DMT 112L	Diesel Engine Operation/Tune-up Lab	2
	DMT 1510	Electrical Systems Theory	4
	DMT 151L	Electrical Systems Lab	2
	DMT 1520	Engine Electronics and Diagnostics Theory	4
	DMT 152L	Engine Electronics and Diagnostics	2
	MKTG 2200	Written Business Communication	3
	AUT 1260	Tech Math for Mechanics	3
or	MATH 1000	Integrated Beginning and Intermediate Algebra (5.0)	

or	Any higher MAT or MATH course	
	Any approved Behavioral Science, Social, or Political Science Distribution Course	2

Graduation Requirements:

1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Diesel Mechanics Technology, Certificate of Completion Careers

Careers:

Diesel technology students may be hired as mechanics working on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. They work on heavy equipment, farm equipment, and on-highway trucks. Diesel mechanics diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators. Students pursuing a Bachelor of Science degree in Technology management can expect opportunities as shop managers, service writers, equipment managers, fleet managers and product development.

Related Careers

- Bus and Truck Mechanics and Diesel Engine Specialists

Automotive Technology, Diploma Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 56

Discipline Core Requirements:			56 Credits
	AUT 1110	Brake Systems	2
	AUT 111L	Brake Systems Lab	1
	AUT 1120	Manual Power Trains	2
	AUT 112L	Manual Power Trains Lab	1
	AUT 1130	Engine Repair	2
	AUT 113L	Engine Repair Lab	1
	AUT 1160	Automotive Electrical Systems	2
	AUT 116L	Automotive Electrical Systems Lab	1
	AUT 1170	Engine Electrical Systems	2
	AUT 117L	Engine Electrical Systems Lab	1
	AUT 1210	Suspension and Steering Systems	2
	AUT 121L	Suspension and Steering Systems Lab	1
	AUT 1220	Automatic Transmissions and Transaxles	2
	AUT 122L	Automatic Transmissions and Transaxles Lab	1
	AUT 1230	Engine Performance	2
	AUT 123L	Engine Performance Lab	1
	AUT 2110	Advanced Steering Suspension and Alignment	2
	AUT 2120	Advanced Engine Performance	2

	AUT 2130	Advanced Emission Control Systems	2
	AUT 2140	Chassis Electrical and Electronics Systems	2
	AUT 2210	Advanced Braking and Control Systems	2
	AUT 2220	Automatic Transmissions and Electronic Controls	2
	AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
	AUT 2250	Electronic Fuel Management Systems (2.0)	
or	AUT 2350	Electronic Diesel Fuel Management Systems	2
	MKTG 2200	Written Business Communication	3
	Any approved Behavioral Science, Social, or Political Science Distribution Course		2
	AUT 1260	Tech Math for Mechanics	3
Complete 8 credits from the following:			8
	AUT 201L	Automotive Service Practicum Engine Performance and Steering Suspension (2.0)	
	AUT 202L	Automotive Service Practicum Emission Controls and Chassis Electronics (2.0)	
	AUT 203L	Automotive Service Practicum Brake Systems and Transmission Controls (2.0)	
	AUT 204L	Automotive Service Practicum Fuel Management Systems and HVACR (2.0)	
	AUT 281R	Cooperative Work Experience (1.0)	

Graduation Requirements:

1. Completion of a minimum of 56 semester hours.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.

Automotive Technology, Diploma Careers

Careers:
Recognizing that a successful career in automotive technology involves much more than mechanical ability to replace parts, Utah Valley University has designed this curriculum for the individual who has ability and aptitude to become a skilled automotive technician. Opportunities are available in: general automotive repair, steering/suspension and alignment, tune-up, cooling system and air conditioning brakes, engine rebuilding, automatic and manual transmissions, computerized electronic ignition and fuel injection, and emission controls. Training for service advisors, shop foreman, and shop managers is also provided.

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Collision Repair Technology - Collision Repair Emphasis, Diploma

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 56

Discipline Core Requirements:		32 Credits
Complete the following:		
AUT 1260	Tech Math for Mechanics	3
MKTG 2200	Written Business Communication	3
Any approved Behavioral Science, Social, or Political Science Distribution Course		2
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L	Automotive HVAC Lab	1
CRT 110	Surface Preparation	2
CRT 111L	Surface Preparation Lab	1
CRT 1120	Nonstructural Repair	2
CRT 112L	Nonstructural Repair Lab	1
CRT 1130	Overall Refinishing and Problem Solving	2
CRT 113L	Overall Refinishing and Problem Solving Lab	1
CRT 1140	Panel Replacement and Adjustment	2
CRT 114L	Panel Replacement and Adjustment Lab	1
CRT 1210	Blending Tinting and Detailing	2
CRT 121L	Blending Tinting and Detailing Lab	1
CRT 1230	Welding and Cutting	2
CRT 123L	Welding and Cutting Lab	1
CRT 281R	Cooperative Work Experience (1.0)	
CRT 285R	Cooperative Correlated Class (1.0)	
CRT 299R	VICA (1.0)	
Emphasis Requirements:		24 Credits
CRT 2310	Collision Damage Reporting	2
CRT 231L	Collision Damage Reporting Lab	1
CRT 2320	Structural Damage Analysis	2
CRT 232L	Structural Damage Analysis Lab	1
CRT 2330	Structural Repair	2
CRT 233L	Structural Repair Lab	1
CRT 2340	Full and Partial Panel Replacement	2
CRT 234L	Full and Partial Panel Replacement Lab	1
CRT 2400	Plastic Paintless Dent Repair	2
CRT 240L	Plastic PaintLess Dent Repair Lab	1
CRT 2440	Mechanical Advanced Vehicle Systems	2
CRT 244L	Mechanical Advanced Vehicle Systems Lab	1
CRT 2450	Bags Brakes Steering	2
CRT 245L	Bags Brakes Steering Lab	1
CRT 2630	Detailing and Custom Painting	2
CRT 263L	Detailing and Custom Painting Lab	1

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

Automotive Technology

NOTE: *Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements. Approval of the program coordinator must be secured before class enrollment.

Collision Repair Technology - Collision Repair Emphasis, Diploma Careers

Careers:
The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers

- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment

Collision Repair Technology - Street Rod Emphasis, Diploma

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 56

Discipline Core Requirements:	32 Credits
Complete the following:	
AUT 1260 Tech Math for Mechanics	3
MKTG 2200 Written Business Communication	3
Any approved Behavioral Science, Social, or Political Science Distribution Course	2
AUT 1160 Automotive Electrical Systems	2
AUT 116L Automotive Electrical Systems Lab	1
AUT 2240 Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L Automotive HVAC Lab	1
CRT 1110 Surface Preparation	2
CRT 111L Surface Preparation Lab	1
CRT 1120 Nonstructural Repair	2
CRT 112L Nonstructural Repair Lab	1
CRT 1130 Overall Refinishing and Problem Solving	2
CRT 113L Overall Refinishing and Problem Solving Lab	1
CRT 1140 Panel Replacement and Adjustment	2
CRT 114L Panel Replacement and Adjustment Lab	1
CRT 1210 Blending Tinting and Detailing	2
CRT 121L Blending Tinting and Detailing Lab	1
CRT 1230 Welding and Cutting	2
CRT 123L Welding and Cutting Lab	1
CRT 281R Cooperative Work Experience (1.0)	

CRT 285R	Cooperative Correlated Class (1.0)	
CRT 299R	VICA (1.0)	
Emphasis Requirements:		24 Credits
CRT 2510	Custom Welding	2
CRT 251L	Custom Welding Lab	1
CRT 2520	Customizing	2
CRT 252L	Customizing Lab	1
CRT 2530	Panel Fabrication	2
CRT 253L	Panel Fabrication Lab	1
CRT 2610	Top Chopping Sectioning and Channeling	2
CRT 261L	Top Chopping Sectioning and Channeling Lab	1
CRT 2620	Frames	2
CRT 262L	Frames Lab	1
CRT 2630	Detailing and Custom Painting	2
CRT 263L	Detailing and Custom Painting Lab	1
CRT 2640	Panel Fabrication of Aluminum	2
CRT 264L	Panel Fabrication of Aluminum Lab	1
CRT 2650	Automotive Interior Design	2
CRT 265L	Automotive Interior Design Lab	1

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

NOTE: *Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements. Approval of the program coordinator must be secured before class enrollment.

Collision Repair Technology - Street Rod Emphasis, Diploma Careers

Careers:
The collision repair industry offers a wide variety of career paths. The industry offers positions in auto body repair, PBE (paint, body, and equipment) sales and training, manufacturer representation, insurance businesses, jobber sales, and instructor training. Graduates may choose a career emphasis in: refinishing, surface preparation, estimating, management, quality control, production, structural repair, damage analysis, glass installation, panel fabrication, customization, nonstructural repair, sales, and instructor training.

Related Careers

- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment

Diesel Mechanics Technology, Diploma

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 56

Discipline Core Requirements:	56 Credits
DMT 1110 Diesel Engine Overhaul	4

DMT 111L	Diesel Engine Overhaul Lab	2
DMT 1120	Diesel Engine Operation/Tune Up	4
DMT 112L	Diesel Engine Operation/Tune-up Lab	2
DMT 1510	Electrical Systems Theory	4
DMT 151L	Electrical Systems Lab	2
DMT 1520	Engine Electronics and Diagnostics Theory	4
DMT 152L	Engine Electronics and Diagnostics	2
DMT 2230	Heating Ventilation Air Conditioning and Refrigeration Theory	2
DMT 223L	Climate Control Lab	1
DMT 2310	Fluid Power Theory	4
DMT 231L	Fluid Power Lab	2
DMT 2320	Fluid Power Transmission Theory	2
DMT 232L	Fluid Power Transmission Lab	1
DMT 2410	Chassis Theory	4
DMT 241L	Chassis Lab	2
DMT 2420	Power Trains Theory	4
DMT 242L	Power Trains Lab	2
MKTG 2200	Written Business Communication	3
AUT 1260	Tech Math for Mechanics	3
	Any approved Behavioral Science, Social, or Political Science Distribution Course	2

Graduation Requirements:

1. Completion of a minimum of 56 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.
4. Residency hours--minimum of 20 credit hours through course attendance at UVU.

Diesel Mechanics Technology, Diploma Careers

<p>Careers:</p> <p>Diesel technology students may be hired as mechanics working on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. They work on heavy equipment, farm equipment, and on-highway trucks. Diesel mechanics diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators. Students pursuing a Bachelor of Science degree in Technology management can expect opportunities as shop managers, service writers, equipment managers, fleet managers and product development.</p>
--

Related Careers

- Bus and Truck Mechanics and Diesel Engine Specialists

Aviation Science

Name:	Aviation Science
Location:	Provo Airport
Telephone:	801-863-7830
Email:	avinfo@uvu.edu
Web Address:	uvu.edu/aviation
Chair:	Randall Johnson

Mission Statement

UVU School of Aviation Sciences provides a superior educational experience. A degree in Aviation Science prepares students for successful careers in aviation. Degrees are offered through technology-enhanced traditional classroom and innovative online delivery methods. Simulations and flight training are integrated with scholarly work to create a complete and well-balanced aeronautics program. The curriculum is developed through ties with industry to incorporate changing standards in technology and procedural advances. Our student-centered approach encourages leadership and engaged life-long learning. We emphasize public awareness and safety in aviation as our commitment to the community at large.

Aviation Science

The Aviation Science department is located at the Provo Airport in Hangar B (HB). The address for the Provo Airport is 1185 Mike Jense Parkway, Provo, UT 84601.

- **Department Chair:** Randall Johnson
- **Office:** HB 202a
- **Telephone:** 801-863-7819
- **Email:** Randall.Johnson@uvu.edu
- **Mail Stop:** MS 114

- **Administrative Assistant:** Ashley Hollister
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- **Telephone:** 801-863-7816
- **Email:** ahollister@uvu.edu

Advisors:

- Dianna Bunker
- **Office:** HB 201b
- **Telephone:** 801-863-7851
- **Email:** Dianna.bunker@uvu.edu

- Marilyn Riddle
- **Office:** HB 201c
- **Telephone:** 801-863-7852
- **Email:** riddlemr@uvu.edu

- **Student Support Center (Out -of-State and Online students only)**
- **Telephone:** 888-901-7192
- **Email:** aviationadvisor@uvu.edu

PROGRAMS

The School of Aviation Sciences offers a Bachelor of Science in Aviation Science with an emphasis in Professional Pilot or Aviation Administration. UVU Aviation Science offers an Associate in Applied Science in Aviation Science and an Associate in Science in Aviation Science. Each associate degree requires the completion of a commercial pilot certificate. UVU also offers a Bachelor of Science in Technology Management with an emphasis in Aviation Science.

Students graduating with the associate degree in Aviation may transfer to any of the Bachelor of Science options.

Note: An overall grade point average of 2.0 (C) or above is required for graduation. A grade of C- or better must be achieved for credit in any aviation science course.

Note: All aviation science majors are required to use the Bedford Handbook in their first semester of study. Aviation Science students are expected to comply with APA standards in all upper-level aviation science courses.

FLIGHT PREREQUISITE

Admission to the on-campus professional pilot program is by competitive points based application and is contingent upon completion of required prerequisites. It is a very rigorous, time-intensive program and requires full commitment each semester from the first day of class until the last.

Students for whom English is a second language are conditionally admitted but must demonstrate acceptable level of English skills prior to beginning flight training. New students may be required to meet additional English language proficiency standards set by the school and determined through both oral and written testing.

New students must meet with an aviation academic advisor before registering for courses. A class II Medical from an FAA designated Medical Examiner is required. The Medical must be completed prior to entering the flight phase of the program. Most airlines require a class I medical for employment as a pilot.

FLIGHT REQUIREMENTS

Students entering or transferring into any Aviation Sciences program and enrolled in on-campus courses must complete their flight training at the UVU flight training facility using UVU owned aircraft.

UVU flight Students are eligible for an increased cost of attendance (COA) for private (alternative) loans. Students must be enrolled in the appropriate flight course section to qualify for a COA appeal for private student loan based on these flight costs. For more information regarding student loans, please visit the UVU Financial Aid & Scholarship Office located at the main UVU campus.

In addition to UVU tuition, students training at the UVU Aviation flight school will pay flight course fees. Each flight course fee covers the costs associated with the required pilot training. **Students who fall behind may be required to pay additional flight training costs.**

CAREER OPPORTUNITIES

Professional Pilot: Worldwide growth of airlines and air traffic correlates highly with economic growth. Pilots and aviation/aerospace personnel work in highly technical and practical scientific. Careers as a professional pilot include:

- Airline, charter, flight instructor, aerial photography, surveying, military, bush pilot/remote re-supply, medical evacuation, and firefighting, Federal and State Government positions, drug enforcement, FAA safety inspectors, pipeline and transmission line patrol, recreation/sight-seeing pilot, police, research and development, test flight, and airplane sales/demonstration.
- UVU Aviation graduates earn a commercial pilot certificate. UVU Aviation AS and AAS are pathways into the Bachelor of Science in Aviation Science with an emphasis in Professional Pilot.

Students who desire to obtain a Bachelor of Science with an emphasis in Professional Pilot or Tech Management, Associate in Science Aviation or Associate in Applied Science Aviation must obtain a commercial pilot certificate with multi-engine and instrument rating.

Aviation Administration: this emphasis is designed to prepare students for careers as professional leaders in aviation. The number of individuals who travel by air will continue to grow in the years to come. Airlines and airports are looking for dedicated, qualified personnel. The Federal Aviation Administration will need to employ increasing numbers of individuals to keep up with the demand. Courses include but are not limited to: airport management, security, transportation and corporate management, and cargo operations.

The Aviation Administration emphasis will develop practical management and leadership skills for students with career goals in the aviation industry. Classes are based on real world aviation needs and will prepare students for employment in a broad range of positions. Careers in aviation administration include:

- Airline, corporate aviation, fixed base operations, and airport management. The Bachelor of Science with an Aviation Administration emphasis does not require pilot certificates or any medical certificates.

DEPARTMENT CHAIR

LEY, Stephen Associate Professor

FACULTY

- CHAMBERLAIN, Cory** Associate Professor
- HOLLISTER, Michael L.** Assistant Professor
- JOHNSON, Randall** Professional In Residence
- LEICK, Ryan** Associate Professor
- LEY, Stephen** Associate Professor
- MARTINEZ, Alan** Assistant Professor
- SCHWAB, Greg** Professor
- SUTLIFF, Daniel** Professional in Residence
- TROUTT, Jack Edwin** Assistant Professor
- WILLIAMS, Brice** Associate Professor

Course Descriptions

Aviation Science.....593

Degrees & Programs

Aviation Science, A.A.S.

Requirements

The A.A.S. degree prepares the student by concentrating on aviation courses. It is commonly referred to as the job-ready degree, preparing the student for entry level positions in the industry.

[Online Degree Plan](#)

Total Program Credits: 63

General Education Requirements:		18 Credits
	ENGL 1010 Introduction to Writing	3
	MAT 1010 Intermediate Algebra	4
	PHIL 2050 Ethics and Values	3
or	Any other Humanities	
	POLS 1000 American Heritage	3
or	HIST 1700 American Civilization (3.0)	
or	Any other Social Science	
	Any approved Biology or Physical Science Distribution Course	3
	HLTH 1100 Personal Health and Wellness (recommended)	2
Discipline Core Requirements:		45 Credits
	AVSC 1010 Survey of Aviation Science	2
	AVSC 1050 Introduction to Aviation Administration	3
	AVSC 1100 Ground Private Pilot	4
	AVSC 1110 Flight Private Pilot Certification	3
	AVSC 1230 Flight Cross Country	2
	AVSC 1240 Ground Instrument Pilot	4
	AVSC 1250 Flight Instrument Pilot	3
	AVSC 1260 21st Century Avionics and Instrumentation	1

AVSC 2150	Air Transportation Management	3
AVSC 2160	Aviation Law	3
AVSC 2300	Ground Commercial Pilot	3
AVSC 2310	Flight Commercial Pilot	3
AVSC 2450	Flight Multi-Engine	1
AVSC 2440	Ground Multi-Engine	1
Complete one of the following sets of courses:		9
	Certified Flight Instructor	
AVSC 2400	Ground Certified Flight Instructor (4.0)	
AVSC 2410	Flight Certified Flight Instructor (1.0)	
AVSC 2420	Ground CFI Instrument (1.0)	
AVSC 2430	Flight CFI Instrument (1.0)	
AVSC 2500	Ground Multi-Engine Instructor (1.0)	
AVSC 2510	Flight Multi-Engine Instructor (1.0)	
	First Officer	
AVSC 3300	Jet Transport Systems (3.0)	
AVSC 3600	Crew Resource Management (3.0)	
AVSC 4800	Professional Pilot Capstone (4.0)	
	Aviation Management (Choose 9 credits)	
AVSC 3020	Aviation Insurance and Risk Management (3.0)	
AVSC 3060	Airline Management (3.0)	
AVSC 3090	Airline and Dispatch Operations (3.0)	
AVSC 3120	Airport Management (3.0)	

Graduation Requirements:

1. Completion of a minimum of 63 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. C- or above required for all aviation major classes.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements
5. Completion of Commercial Pilot Certificate.
6. Students may count no more than 4 credit hours of total cooperative work experience (AVSC 281/285R) toward the degree requirements without department approval.

Aviation Science, A.A.S.

Careers

<p>Careers:</p> <p>Graduates of the Associate in Applied Science are qualified to become a commercial pilot or certified flight instructor. This degree transitions into the Bachelor of Science in Aviation Science with an emphasis in Professional Pilot. Students must obtain a commercial pilot certificate with multi-engine and instrument rating to complete the degree.</p>
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Related Careers

- Airline Pilots, Copilots, and Flight Engineers
- Commercial Pilots

Aviation Science, A.S.

Requirements

The A.S. degree is designed to prepare the student with all the ratings necessary to be qualified for entry-level jobs in the aviation field. Obtaining an associate degree helps

Aviation Science

the graduate prepare for a diversity of job-related responsibilities and prepares students to enter directly into the B.S. degree.

[Online Degree Plan](#)

Total Program Credits: 62

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		27 Credits
AVSC 1010	Survey of Aviation Science	2
AVSC 1050	Introduction to Aviation Administration	3
AVSC 1100	Ground Private Pilot	4
AVSC 1110	Flight Private Pilot Certification	3
AVSC 1230	Flight Cross Country	2
AVSC 1240	Ground Instrument Pilot	4
AVSC 1250	Flight Instrument Pilot	3

AVSC 2300	Ground Commercial Pilot	3
AVSC 2310	Flight Commercial Pilot	3

Graduation Requirements:

1. Completion of a minimum of 62 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Completion of Commercial Pilot Certificate.

Aviation Science, A.S.

Careers

Careers:
Graduates of the Associate in Science are qualified to become a commercial pilot or certified flight instructor. This degree transitions into the Bachelor of Science in Aviation Science with an emphasis in Professional Pilot. Students must obtain a commercial pilot certificate with multi-engine and instrument rating to complete the degree.

Related Careers

- Airline Pilots, Copilots, and Flight Engineers
- Commercial Pilots

Aviation Science - Aviation Administration Emphasis, B.S.

Requirements

This degree is designed to develop practical leadership skills for a variety of careers in the aviation industry. Courses are based on real world aviation needs and are developed through ties with industry experts. The curriculum will prepare students with a broad range of knowledge and skills, including airline and airport management, aviation security and safety, marketing, aviation finance, human resources, and many others.

[Online Degree Plan](#)

Total Program Credits: 120

Matriculation Requirements:		
1. Medical Requirement: Class 1 FAA medical exam		
2. Completion of 25 aviation credits and a 2.5 GPA.		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	

	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science (PHYS 1010 recommended)		3
	Additional Biology or Physical Science (METO 1010 recommended)		3
	Humanities Distribution (COMM 1020 recommended)		3
	Fine Arts Distribution		3
	Social/Behavioral Science (PSY 1010 recommended)		3
Discipline Core Requirements:			33 Credits
	AVSC 1010	Survey of Aviation Science	2
	AVSC 1050	Introduction to Aviation Administration	3
	AVSC 1100	Ground Private Pilot	4
	AVSC 2120	Personal Finance for Aviation Professionals	3
	AVSC 2150	Air Transportation Management	3
	AVSC 2160	Aviation Law	3
	AVSC 3030	Air Traffic Management	3
	AVSC 3110	Crew Resource Management	3
	AVSC 3600	Crew Resource Management	3
	AVSC 410G	Global Ethical and Professional Issues in Aviation	3
	AVSC 4700	Aviation Professional Seminar	3
Emphasis Requirements:			40 Credits
	ECON 2020	Macroeconomics	3
or	AVSC 2090	Air Transport Economics (3.0)	
	MKTG 2200	Written Business Communication	3
or	AVSC 2070	Communications for Aviation Professionals (3.0)	
	AVSC 2110	Aviation Weather Applications	3
	AVSC 2130	Aviation Safety	3
	AVSC 2710	Aviation Marketing and Customer Service	3
	AVSC 2750	Unmanned Aircraft Systems	3
	AVSC 3020	Aviation Insurance and Risk Management	3
	AVSC 3150	Principles of Aviation Management	3
	AVSC 3310	Aviation Logistics Management	3
	AVSC 3320	Aviation Managerial Accounting	4

	AVSC 3350	Aviation Labor and Human Resource	3
	AVSC 4020	Applied Aviation Finance	3
	AVSC 4900	Aviation Administration Capstone	3
Emphasis Elective Requirements:			12 Credits
Must complete 12 credits from the following elective courses, 6 credits must be upper-division:			12
	AVSC 1110	Flight Private Pilot Certification (3.0)	

Graduation Requirements:

1. Completion of a minimum of 62 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Completion of Commercial Pilot Certificate.

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, with a minimum of 40 upper division semester credits.
2. Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of Commercial Pilot Certificate for the Professional Pilot emphasis.
5. Completion of GE and specified departmental requirements unique to the area of emphasis. Students in the Professional Pilot emphasis should obtain an FAA Class I or II Medical Certificate prior to beginning flight training.
6. Students may count no more than 8 credit hours of total cooperative work experience (AVSC 281R/285R/481R/485R) toward the degree requirements without department approval.
7. Successful completion of at least one Global/Intercultural course.

NOTE: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.

Aviation Science - Aviation Administration Emphasis, B.S.

Careers

Careers:
Aviation Administration: this emphasis is designed to prepare students for careers as professional leaders in aviation. Courses include but are not limited to: airport management, security, transportation and corporate management, and cargo operations. The Aviation Administration emphasis will develop practical management and leadership skills for students with career goals in the aviation industry. Classes are based on real world aviation needs and will prepare students for employment in a broad range of positions including airline, corporate aviation, fixed base operations, and airport management.

Related Careers

- Airline Pilots, Copilots, and Flight Engineers
- Commercial Pilots

Aviation Science - Professional Pilot Emphasis, B.S.

Requirements

This degree prepares the student to enter the work force as a professional pilot at an intermediate to advanced level. The degree builds on the foundation in the A.S. and A.A.S. degrees. Students can obtain additional advanced ratings and deepen their knowledge of the pilot profession through an impressive range of course subject matter.

Aviation Science

Specific courses are designed to help the student pilot receive the training necessary to qualify for employment with a commuter airline.

[Online Degree Plan](#)

Total Program Credits: 120

Matriculation Requirements:		
1. Medical Requirement: Class 1 FAA medical exam		
2. Completion of 25 aviation credits and a 2.5 GPA.		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science (PHYS 1010 recommended)		3
Additional Biology or Physical Science (METO 1010 recommended)		3
Humanities Distribution (COMM 1020 recommended)		3
Fine Arts Distribution		3
Social/Behavioral Science (PSY 1010 recommended)		3
Discipline Core Requirements:		33 Credits
AVSC 1010	Survey of Aviation Science	2
AVSC 1050	Introduction to Aviation Administration	3
AVSC 1100	Ground Private Pilot	4
AVSC 2120	Personal Finance for Aviation Professionals	3
AVSC 2150	Air Transportation Management	3
AVSC 2160	Aviation Law	3

AVSC 3030	Air Traffic Management	3
AVSC 3110	Aviation Security	3
AVSC 3600	Crew Resource Management	3
AVSC 410G	Global Ethical and Professional Issues in Aviation	3
AVSC 4700	Safety and Professional Seminars	3
Emphasis Requirements:		40 Credits
AVSC 1110	Flight Private Pilot Certification	3
AVSC 1230	Flight Cross Country	2
AVSC 1240	Ground Instrument Pilot	4
AVSC 1250	Flight Instrument Pilot	3
AVSC 1260	21st Century Avionics and Instrumentation	1
AVSC 2300	Ground Commercial Pilot	3
AVSC 2310	Flight Commercial Pilot	3
AVSC 2440	Ground Multi-Engine	1
AVSC 2450	Flight Multi-Engine	1
AVSC 3010	Flight Environment	3
AVSC 3200	Flight Physiology	3
AVSC 3300	Jet Transport Systems	3
AVSC 3400	High Altitude Navigation/International Flight Operations	3
AVSC 3530	Advanced Aerodynamics	3
AVSC 4800	Professional Pilot Capstone	4
Emphasis Elective Requirements:		12 Credits
Must complete 12 credits from the following courses, including 6 hours of upper division.		12
AVSC 1120	Basic Aircraft Systems (1.0)	
AVSC 2130	Aviation Safety (3.0)	
AVSC 2400	Ground Certified Flight Instructor (4.0)	
AVSC 2410	Flight Certified Flight Instructor (1.0)	
AVSC 2420	Ground CFI Instrument (1.0)	
AVSC 2430	Flight CFI Instrument (1.0)	
AVSC 2500	Ground Multi-Engine Instructor (1.0)	
AVSC 2510	Flight Multi-Engine Instructor (1.0)	
AVSC 2710	Aviation Marketing and Customer Service (3.0)	
AVSC 2750	Unmanned Aircraft Systems (3.0)	
AVSC 3060	Airline Management (3.0)	
AVSC 3090	Airline and Dispatch Operations (3.0)	
AVSC 3120	Airport Management (3.0)	
AVSC 3210	Aircraft Incident and Emergency Management (3.0)	
AVSC 475R	Current Topics in Aviation (1.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, with a minimum of 40 upper division semester credits.
2. Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

4. Completion of Commercial Pilot Certificate for the Professional Pilot emphasis.
5. Completion of GE and specified departmental requirements unique to the area of emphasis. Students in the Professional Pilot emphasis should obtain an FAA Class I or II Medical Certificate prior to beginning flight training.
6. Students may count no more than 8 credit hours of total cooperative work experience (AVSC 281R/285R/481R/485R) toward the degree requirements without department approval.
7. Successful completion of at least one Global/Intercultural course.

NOTE: If student chooses HIST 2700 and 2710, the additional hours may be used towards a social science distribution requirement.

Aviation Science - Professional Pilot Emphasis, B.S. Careers

Careers:

Examples of jobs in the aviation field are: airline, charter and air taxi pilot, flight instructor, aerial photography and surveying, military, bush pilot/remote re-supply, medical evacuation, firefighting and spotting, Federal and State Government positions, drug enforcement, FAA safety inspectors, pipeline and transmission line patrol, recreation/sight-seeing pilot, police and traffic control, research and development, test flight, airplane sales/demonstration, and commercial airline pilot.

Related Careers

- Airline Pilots, Copilots, and Flight Engineers
- Commercial Pilots

Behavioral Science

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Location:	CB 207
Telephone:	801-863-6377
Email:	BESC_OFFICE@uvu.edu
Web Address:	www.uvu.edu/besc
Chair:	Cameron John
Chair Email	Cameron.John@uvu.edu
Assistant Chair:	Grace Chou
Assistant Chair Email	chougr@uvu.edu

Mission Statement

The Behavioral Science department is a rigorous interdisciplinary program (Anthropology, Family Science, Psychology, Social Work, Sociology, and Substance Use Disorder Counseling) that prepares students to make positive contributions in their academic, work, and community settings by developing their understanding of human functioning in various contexts. We promote and mentor student engagement with each other and with their academic, professional, or geographic communities in order to achieve essential learning outcomes.

Behavioral Science

Please see our [department site](#) for the most up to date and accurate information.

Advisors: Classroom Building, 5th floor, Suite 506

To schedule an appointment please visit: <http://www.uvu.edu/besc/bescacademicadvising.html> or call 801-863-5717

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- **Email:** April.Kirk@uvu.edu
- Cindy Lau
- Bachelor of Social Work
- Substance Use Disorder Counseling
- Associate in Behavioral Science
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- Psychology (last names H-P)
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- Anthropology (all)
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- **Email:** dukelo@uvu.edu
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Programs/Degrees

Associate in Art or Science in Behavioral Science
Bachelor of Art or Science in Behavioral Science

- Anthropology
- Sociology

Bachelor of Psychology
Bachelor of Family Science
Bachelor of Social Work
Master of Social Work
Substance Use Disorder Counseling Certificate of Proficiency

DEPARTMENT CHAIRJOHN, Cameron R. *Associate Professor***FACULTY**ANDERSON, Christopher D *Assistant Professor*BODEN, Jeremy *Assistant Professor*BRETON, Brett *Assistant Professor*CHAKRAVARTY, Debjani *Assistant Professor*CHOU, Grace *Professor*COTTLE, Nathan *Associate Professor*DRAPER, Matthew *Professor*EGGERTSEN, Lars *Associate Professor*FAWCETT, Elizabeth *Assistant Professor*HAMMOND, Ronald J. *Professor*HILL, Jessica *Assistant Professor*JOHN, Cameron R. *Associate Professor*JORGENSEN, Claudia *Assistant Professor*KNOWLTON, David Clark *Professor*MCDONELL, Martin *Associate Professor*MISBACH, Alan R. *Assistant Professor*NELSON, Julie *Lecturer*NIELSON, Elijah K. *Assistant Professor*PANOS, Angelea *Assistant Professor*POULSON, Barton *Associate Professor*RICHARDS, Grant L. *Professor*SCHLOSNAGLE, Leo *Assistant Professor*SIMON, Alexander *Associate Professor*TAYLOR, James *Assistant Professor*TOLMAN, Anton *Professor*TORLINA, Jeffrey *Associate Professor*WARNE, Russell T. *Associate Professor*WILLIAMS-SCHULTZ, Lashawn *Assistant Professor***Course Descriptions**

Anthropology.....	574
Autism Studies.....	593
Behavioral Science.....	600
Family Studies.....	702
Psychology.....	793
Sociology.....	804
Substance Use Disorder Counseling.....	811
Social Work.....	813

Degrees & Programs**Behavioral Science, A.A.****Requirements**

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 61

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) *	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0) **	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:		18 Credits	
Complete the following four courses:		12	
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	SOC 1010	Introduction to Sociology (3.0)	
	FAMS 101G	Contemporary Families (3.0)	
	SW 1010	Introduction to Social Work (3.0)	
Complete any two courses from the following:		6	
	ANTH 1020	Biological Anthropology (3.0)	
	ANTH 103G	World Prehistory (3.0)	
	ANTH 180G	Introduction to American Indian Studies (3.0)	
	ANTH 2030	Archeological Method and Theory (3.0)	
	BESC 107G	Multicultural Societies (3.0)	
	FAMS 2705	Ethics for Family Interventions (3.0)	
	PSY 1100	Human Development Life Span (3.0)***	

Behavioral Science

FAMS 1150	Marriage and Relationship Skills (3.0) ***	
PSY 2250	Psychology of Interpersonal Relationships (3.0)	
PSY 2400	Positive Psychology (3.0)	
PSY 275R	Survey of Current Topics (1.0)	
PSY 2800	Human Sexuality (3.0)	
SOC 1020	Modern Social Problems (3.0)	
SOC 2370	Gender Roles (3.0)	
SOC 275R	Survey of Current Topics (1.0)	
SW 275R	Survey of Current Topics (3.0)	
Elective Requirements:		8 Credits
Complete 1010 and 1020 of the same Foreign Language		8

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall GPA of 2.0 or above upon graduation.
3. Minimum of a 2.5 cumulative GPA or higher in the Behavioral Science courses (ANTH, BESC, FAMS, SW, SOC, PSY).
4. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
* Recommended for BA/BS in Behavioral Science.
** Recommended if student is considering an MSW program.
*** Recommended for students considering the Behavioral Science Bachelor degree with a Family Studies emphasis.

Behavioral Science, A.A.

Careers

Behavioral Science, A.A. Careers
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science, A.S.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 61

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0) (recommended)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) *	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0) **	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:		18 Credits
Complete the following four courses:		12
ANTH 101G	Social/Cultural Anthropology (3.0)	
SOC 1010	Introduction to Sociology (3.0)	
FAMS 101G	Contemporary Families (3.0)	
SW 1010	Introduction to Social Work (3.0)	
Complete any two courses from the following:		6
ANTH 1020	Biological Anthropology (3.0)	
ANTH 103G	World Prehistory (3.0)	
ANTH 180G	Introduction to American Indian Studies (3.0)	
ANTH 2030	Archeological Method and Theory (3.0)	
BESC 107G	Multicultural Societies (3.0)	
FAMS 2705	Ethics for Family Interventions (3.0)	
FAMS 1150	Marriage and Relationship Skills (3.0) ***	

PSY 1100	Human Development Life Span (3.0)	
PSY 2250	Psychology of Interpersonal Relationships (3.0)	
PSY 2400	Positive Psychology (3.0)	
PSY 275R	Survey of Current Topics (1.0)	
PSY 2800	Human Sexuality (3.0)	
SOC 1020	Modern Social Problems (3.0)	
SOC 2370	Gender Roles (3.0)	
SOC 275R	Survey of Current Topics (1.0)	
SW 275R	Survey of Current Topics (3.0)	
Elective Requirements:		8 Credits
Any additional courses 1000-level or higher.		8

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall GPA of 2.0 or above upon graduation.
3. Minimum of a 2.5 cumulative GPA or higher in the Behavioral Science courses (ANTH, BESC, FAMS, SW, SOC, PSY).
4. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
* Recommended for BA/BS in Behavioral Science.
** Recommended if student is considering an MSW program.
*** Recommended for students considering the Behavioral Science Bachelor degree with a Family Studies emphasis.

Behavioral Science, A.S. Careers

Careers
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Advanced Substance Use Disorder Counseling, Certificate of Proficiency

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC)).

[Online Degree Plan](#)

Total Program Credits: 32

Matriculation Requirements:		9 Credits
Students must apply and be admitted to the UVU SUDC program. The following three courses must be completed with a C- grade or higher prior to starting the SUDC program and must be verified on the application for admission. For additional admission information for this program please visit www.uvu.edu/besc/sudc.html .		
ENGL 1010	Introduction to Writing	3
PSY 1010	General Psychology	3
PSY 1100	Human Development Life Span	3
Discipline Core Requirements:		23 Credits
SUDC 4710	Introduction to Professional Development	2
SUDC 4300	Introduction to Substance Use Disorder Counseling	3
SUDC 3470	Dynamics of Addiction	3
SUDC 3430	Psychopharmacology for the Substance Use Disorder Counseling Field	3
SUDC 4400	Advanced Substance Use Disorder Counseling	3
SUDC 4720	Advanced Professional Development	3
SUDC 481R	Internship	6

Graduation Requirements:

1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of a 2.0 (C) or above. All courses must be passed with a C- grade or higher in order for students to receive their Certificate of Proficiency from this program.
3. Upon completion of the UVU SUDC Certificate of Proficiency program, students will work with the Utah Division of Occupational and Professional Licensing (DOPL) in regards to meeting the additional licensing requirements and obtaining their SUDC or ASUDC license(s).
4. Residency hours -- minimum of 8 credit hours through course attendance at UVU.

Advanced Substance Use Disorder Counseling, Certificate of Proficiency Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Substance Abuse and Behavioral Disorder Counselors
- Mental Health Counselors

Interdisciplinary Gerontology, Certificate of Proficiency

Requirements

The certificate will be housed in the Department of Behavioral Science yet is an interdisciplinary (Public and Community Health, Nursing, and Behavioral Science: Psychology, Sociology, Social Work, and Family Studies) undergraduate gerontology certificate that allows students to build a unique set of credentials they compose from a menu of existing UVU courses that meet the guidelines set forth by the Association for Gerontology in Higher Education (AGHE).

Total Program Credits: 18

Discipline Core Requirements:	9 Credits
Complete 9 credits from this list of core classes:	9

Behavioral Science

	PSY 1100	Human Development Life Span	3
or	FAMS 1100	Life Span Development in the Family (3.0)	
	BESC 3550	Thanatology--Death and Dying	3
or	HLTH 3000	Health Concepts of Death and Dying (3.0)	
	SOC 375G	Sociology of Aging (3.0)	3
Elective Requirements:			9 Credits
Complete 6 credits from this list of core classes:			6
	FAMS 3850	Adult Development and Aging (3.0)	
	EXSC 4100	Fitness Across the Lifespan (3.0)	
	FAMS 2800	Teaching Human Sexuality (3.0)	
or	HLTH 2800	Human Sexuality (3.0)	
or	PSY 2800	Human Sexuality (3.0)	
	FAMS 3410	Fundamentals of Mediation and Negotiation (3.0)	
or	COMM 3410	Fundamentals of Mediation and Negotiation (3.0)	
	FAMS 4200	Advanced Mediation and Negotiation (3.0)	
or	COMM 4200	Advanced Mediation and Negotiation (3.0)	
	FAMS 4300	Family Dispute Resolution (3.0)	
	FAMS 4500	Family Life Education Methodology (3.0)	
	FAMS 4660	Family Financial and Resource Management (3.0)	
	HLTH 3240	Womens Health Issues (3.0)	
	HLTH 350G	International Health (3.0)	
	HLTH 3300	Health Promotion for Older Adults (3.0)	
	HLTH 3400	Human Diseases (3.0)	
	HLTH 3800	Epidemiology (3.0)	
	NURS 2325	Nursing Interventions Laboratory (2.0)	
or	NURS 2415	Nursing Care of Adults with Common Disorders Clinical (2.0)	
or	NURS 3335	Nursing Care of Persons with Complex Disorders Clinical (2.0)	
or	NURS 3405	Patient Care Coordination and Management Preceptorship (2.0)	
or	NURS 4325	Nursing in the Community Clinical (2.0)	
	NURS 2420	Nursing Care of the Aging Population (2.0)	
	NURS 4230	Palliative Care in Nursing (3.0)	
	NUTR 2020	Nutrition Through the Life Cycle (3.0)	
	PSY 3220	Adult Development (3.0)	
	PSY 3400	Abnormal Psychology (3.0)	
	PSY 3420	Cognitive Psychology (3.0)	
	SW 1010	Introduction to Social Work (3.0)	
	SW 2100	Human Behavior and the Social Environment I (3.0)	
	SW 3400	Human Behavior and the Social Environment II (3.0)	
Complete any 3 credits from AGHE Competency III (part 11) Internship/Research Courses:			3
	BESC 481R	Senior Internship (1.0)	
	EXSC 481R	Internship in Exercise Science (1.0)	

	FAMS 481R	Senior Internship (1.0)	
	HLTH 482R	Community Health Internship (1.0)	
	NURS 4240	Promoting Active Senior Lifestyles (2.0)	
	NURS 481R	Internship in Nursing (1.0)	
	NURS 489R	Undergraduate Research in Nursing (1.0)	
	NURS 490R	Special Topics in Nursing (1.0) ^{1,2}	
	NURS 495R	Independent Study in Nursing (1.0)	
	PSY 482R	Internship Seminar (1.0)	
	SW 481R	Field Placement (1.0)	

Graduation Requirements:

1. Completion of a Minimum of 18 Semester Credits.
2. Overall GPA of 2.0 or above upon graduation.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.

Footnotes:

1-If course not already taken.

2-Must have departmental approval as course matter rotates.

Interdisciplinary Gerontology, Certificate of Proficiency Careers

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Medical Scientists, Except Epidemiologists
- Social Scientists and Related Workers, All Other

Substance Use Disorder Counseling, Certificate of Proficiency

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Online Degree Plan

Total Program Credits: 23

Matriculation Requirements:			9 Credits
Students must apply and be admitted to the UVU SUDC program. The following three courses must be completed with a C- grade or higher prior to starting the SUDC program and must be verified on the application for admission. For additional admission information for this program please visit www.uvu.edu/besc/sudc.html .			
	ENGL 1010	Introduction to Writing	3
	PSY 1010	General Psychology	3
	PSY 1100	Human Development Life Span	3
Discipline Core Requirements:			14 Credits

SUDC 4710	Introduction to Professional Development	2
SUDC 4300	Introduction to Substance Use Disorder Counseling	3
SUDC 3470	Dynamics of Addiction	3
SUDC 3430	Psychopharmacology for the Substance Use Disorder Counseling Field	3
SUDC 481R	Internship (1.0)	3

Graduation Requirements:

1. Completion of a minimum of 23 semester credits.
2. Overall grade point average of 2.0 (C) or above. All courses must be passed with a C- grade or higher in order for students to receive their certificate of completion from this program.
3. Upon completion of the UVU SUDC Certificate of Proficiency program, students will work with the Utah Division of Occupational and Professional Licensing (DOPL) in regards to meeting additional licensing requirements and obtaining their SUDC or ASUDC license(s).
4. Residency hours -- Minimum of 6 credit hours through course attendance at UVU.

Substance Use Disorder Counseling, Certificate of Proficiency Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Substance Abuse and Behavioral Disorder Counselors
- Mental Health Counselors

Family Science, Minor

Requirements

This minor provides individuals insight into relationship and group dynamics. This include important relationship skills, such as speaking, listening, and other communication skills that could be applied to family and professional settings. Content in the minor may also include important research findings and evidence-based curricula listed on the National Registry of Evidenced-based Programs and Practices (NREPP) on the [SAMHSA](#) website.

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
FAMS 101G	Contemporary Families	3
Complete 15 credits from the following:		15
FAMS 1100	Life Span Development in the Family (3.0)	
FAMS 1150	Marriage and Relationship Skills (3.0)	
FAMS 3250	Applied Parenting (3.0)	
FAMS 3800	Early Development in Families (3.0)	
FAMS 3850	Adult Development and Aging (3.0)	
FAMS 4660	Family Financial and Resource Management (3.0)	
FAMS 4670	Family Dynamics and Systems (3.0)	

Graduation Requirements:

1. All course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

Family Science, Minor

Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Farm and Home Management Advisors

Psychology, Minor

Requirements

The Minor in Psychology is designed for students who desire a full bachelor's degree in psychology. The degree will prepare students for careers and further education in Utah, the Mountain West, and nationwide by (a) creating a curriculum built around the five pillars of psychology described by the American Psychological Association (APA); (b) emphasizing skills desired by employers (e.g., written communication, critical thinking, working in teams); and (c) providing engaged learning experiences (e.g., service-learning, internship, capstone) about current psychological topics.

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
PSY 1010	General Psychology	3
PSY 1100	Human Development Life Span	3
PSY 2710	Introduction to Brain and Behavior	3
PSY 3400	Abnormal Psychology	3
PSY 3420	Cognitive Psychology	3
PSY 350G	Social Psychology	3

Graduation Requirements:

1. All course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

Psychology, Minor

Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Anthropology Emphasis, B.A.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Behavioral Science

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0) (recommended)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)**	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:		19 Credits	
Complete the following seven courses:		19	
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	PSY 1010	General Psychology (3.0) (completed with GE requirements)	
	SOC 1010	Introduction to Sociology (3.0)	
	FAMS 101G	Contemporary Families (3.0)	
	SW 1010	Introduction to Social Work (3.0)	
	BESC 3010	Statistics for the Behavioral Sciences (4.0)	
	BESC 3020	Research Methods for the Behavioral Sciences (3.0)	
Elective Requirements:		18 Credits	
	Language Requirement (16 credits in the same foreign language, includes ASL)		16

	Any course numbered 1000 or higher	2	
Emphasis Requirements:		42 Credits	
Anthropology Core Requirement - Complete the following courses:			
	ANTH 1020	Biological Anthropology	3
	ANTH 103G	World Prehistory	3
	ANTH 3000	Language and Culture	3
	ANTH 2030	Archeological Method and Theory (3.0)	3
Anthropology Theory and Methods Requirement - Complete the following courses:			
	ANTH 3850	Ethnographic Methods	3
	ANTH 4120	History of Anthropological Thought	3
	ANTH 4130	Contemporary Theory and Debates	3
Upper Division Anthropology Requirement - (7 courses / 21 credits)			
	Choose seven upper-division (3000 or higher) ANTH courses for a total of 21 credits		21
Emphasis Elective Requirements:		6 Credits	
	Behavioral Science Electives (2 courses / 6 credits). In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives. These courses must come from ANTH/AUTS/BESC/FAMS/PSY/SOC/SW. Please see a Behavioral Science advisor for a list of approved courses.		6

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote

** Recommended if student is considering an MSW program.

Behavioral Science - Anthropology Emphasis, B.A. Careers

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists

- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Anthropology Emphasis, B.S.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC)).

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0) (recommended)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)**	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:		19 Credits	
Complete the following seven courses:		19	

	ANTH 101G	Social/Cultural Anthropology (3.0)	
	PSY 1010	General Psychology (3.0) (completed with GE requirements)	
	SOC 1010	Introduction to Sociology (3.0)	
	FAMS 101G	Contemporary Families (3.0)	
	SW 1010	Introduction to Social Work (3.0)	
	BESC 3010	Statistics for the Behavioral Sciences (4.0)	
	BESC 3020	Research Methods for the Behavioral Sciences (3.0)	
Elective Requirements:		18 Credits	
	General Elective Requirement (18 elective credits from any courses 1000 level or higher)		18
Emphasis Requirements:		42 Credits	
Anthropology Core Requirement - Complete the following courses:			
	ANTH 1020	Biological Anthropology	3
	ANTH 103G	World Prehistory	3
	ANTH 2030	Archeological Method and Theory (3.0)	3
	ANTH 3000	Language and Culture	3
Anthropology Theory and Methods Requirement - Complete the following courses:			
	ANTH 3850	Ethnographic Methods	3
	ANTH 4120	History of Anthropological Thought	3
	ANTH 4130	Contemporary Theory and Debates	3
Upper Division Anthropology Requirement - (7 courses / 21 credits)			
	Choose seven upper-division (3000 or higher) ANTH courses for a total of 21 credits		21
Emphasis Elective Requirements:		6 Credits	
	Behavioral Science Electives (2 courses / 6 credits). In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives. These courses must come from ANTH/AUTS/BESC/FAMS/PSY/SOC/SW and they can be 1000 level or higher. Please see a Behavioral Science advisor for a list of approved courses.		6

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
** Recommended if student is considering an MSW program.

Behavioral Science

Behavioral Science - Anthropology Emphasis, B.S. Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Family Studies Emphasis, B.A.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0) (recommended)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)**	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3

	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:			19 Credits
Complete the following seven courses:			19
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	PSY 1010	General Psychology (3.0) (completed with GE requirements)	
	SOC 1010	Introduction to Sociology (3.0)	
	FAMS 101G	Contemporary Families (3.0)	
	SW 1010	Introduction to Social Work (3.0)	
	BESC 3010	Statistics for the Behavioral Sciences (4.0)	
	BESC 3020	Research Methods for the Behavioral Sciences (3.0)	
Elective Requirements:			18 Credits
	Language Requirement (16 credits in the same foreign language, includes ASL)		16
	Any course numbered 1000 or higher		2
Emphasis Requirements:			42 Credits
Family Studies Core Requirement - Complete the following courses:			
	FAMS 1100	Life Span Development in the Family	3
	FAMS 1150	Marriage and Relationship Skills	3
	FAMS 2705	Ethics for Family Interventions	3
	FAMS 2800	Teaching Human Sexuality	3
	FAMS 3250	Applied Parenting	3
	FAMS 4400	Family Policy	3
	FAMS 4500	Family Life Education Methodology	3
	FAMS 4660	Family Financial and Resource Management	3
	FAMS 4670	Family Dynamics and Systems	3
Advanced Research Requirement - Complete one of the following courses:			3
	BESC 4040	Applied Behavioral Science Research (3.0)	
	BESC 4050	Clinical Research (3.0)	
	FAMS 4040	Secondary Data Analysis (3.0)	
	PSY 4010	Experimental Psychology (3.0)	
	SOC 4020	Survey Research Design (3.0)	
Complete one of the following tracks:			9
Development Track - Complete the following courses:			
	FAMS 3800	Early Development in Families (3.0)	
	FAMS 3850	Adult Development and Aging (3.0)	
	PSY 3460	Personality Theory (3.0)	
or	PSY 3400	Abnormal Psychology (3.0)	
Mediation Track - Complete the following courses:			
	FAMS 3410	Fundamentals of Mediation and Negotiation (3.0)	
	FAMS 4200	Advanced Mediation and Negotiation (3.0)	

	FAMS 4300	Family Dispute Resolution (3.0)	
Pre-Counseling Track - Complete the following two courses:			
	PSY 3400	Abnormal Psychology (3.0)	
	FAMS 4700	Introduction to Marriage and Family Therapy (3.0)	
and one of the following courses:			
	PSY 4300	Introduction to Counseling and Psychotherapy (3.0)	
	PSY 4400	Introduction to Group Psychotherapy (3.0)	
	SW 3750	Child Abuse/Neglect and Domestic Violence (3.0)	
Internship Requirement:			3 Credits
	FAMS 485R	Internship Seminar (1.0)	
and two credits from the following:			
	FAMS 481R	Senior Internship (1.0)	
	FAMS 482R	Strengthening Families Internship (1.0)	
Emphasis Elective Requirements:			6 Credits
Behavioral Science electives (2 courses /6 credits). In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives; 3 credits must be upper-division. They can come from ANTH/AUTS/BESC/FAMS/PSY/SOC/SW.			6

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote

** Recommended if student is considering an MSW program.

Behavioral Science - Family Studies Emphasis, B.A. Careers

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other

- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Family Studies Emphasis, B.S.**Requirements**

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0) (recommended)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)**	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:			19 Credits

Behavioral Science

Complete the following seven courses:		19
ANTH 101G	Social/Cultural Anthropology (3.0)	
PSY 1010	General Psychology (3.0) (completed with GE requirements)	
SOC 1010	Introduction to Sociology (3.0)	
FAMS 101G	Contemporary Families (3.0)	
SW 1010	Introduction to Social Work (3.0)	
BESC 3010	Statistics for the Behavioral Sciences (4.0)	
BESC 3020	Research Methods for the Behavioral Sciences (3.0)	
Elective Requirements:		18 Credits
General Elective Requirement (18 elective credits from any courses 1000 level or higher)		18
Emphasis Requirements:		42 Credits
Family Studies Core Requirement - Complete the following courses:		
FAMS 1100	Life Span Development in the Family	3
FAMS 1150	Marriage and Relationship Skills	3
FAMS 2705	Ethics for Family Interventions	3
FAMS 2800	Human Sexuality	3
FAMS 3250	Applied Parenting	3
FAMS 4400	Family Policy	3
FAMS 4500	Family Life Education Methodology	3
FAMS 4660	Family Financial and Resource Management	3
FAMS 4670	Family Dynamics and Systems	3
Advanced Research Requirement - Complete one of the following courses:		3
BESC 4040	Applied Behavioral Science Research (3.0)	
BESC 4050	Clinical Research (3.0)	
FAMS 4040	Secondary Data Analysis (3.0)	
PSY 4010	Experimental Psychology (3.0)	
SOC 4020	Survey Research Design (3.0)	
Complete one of the following tracks:		9
Development Track - Complete the following courses:		
FAMS 3800	Early Development in Families (3.0)	
FAMS 3850	Adult Development and Aging (3.0)	
PSY 3460	Personality Theory (3.0)	
or PSY 3400	Abnormal Psychology (3.0)	
Mediation Track - Complete the following courses:		
FAMS 3410	Fundamentals of Mediation and Negotiation (3.0)	
FAMS 4200	Advanced Mediation and Negotiation (3.0)	
FAMS 4300	Family Dispute Resolution (3.0)	
Pre-Counseling Track-Complete the following two courses		
PSY 3400	Abnormal Psychology (required) (3.0)	
FAMS 4700	Introduction to Marriage and Family Therapy(3.0)	
and one of the following courses:		
PSY 4300	Introduction to Counseling and Psychotherapy (3.0)	

PSY 4400	Introduction to Group Psychotherapy (3.0)	
SW 3750	Child Abuse/Neglect and Domestic Violence (3.0)	
Internship Requirement:		3
FAMS 485R	Internship Seminar (1.0)	
and two credits from the following:		
FAMS 481R	Senior Internship (1.0)	
FAMS 482R	Strengthening Families Internship (1.0)	
Emphasis Elective Requirements:		6 Credits
Behavioral Science electives (2 courses /6 credits). In addition to the requirements listed above, students must complete 6 credits of approved Behavioral Science electives; 3 credits must be upper-division. They can come from ANTH/AUTS/BESC/FAMS/PSY/SOC/SW.		6

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote

** Recommended if student is considering an MSW program.

Behavioral Science - Family Studies Emphasis, B.S. Careers

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Sociology Emphasis, B.A.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of

Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0) (recommended)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)**	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:		19 Credits	
Complete the following seven courses:		19	
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	PSY 1010	General Psychology (3.0) (completed with GE requirements)	
	SOC 1010	Introduction to Sociology (3.0)	
	FAMS 101G	Contemporary Families (3.0)	
	SW 1010	Introduction to Social Work (3.0)	
	BESC 3010	Statistics for the Behavioral Sciences (4.0)	
	BESC 3020	Research Methods for the Behavioral Sciences (3.0)	

Elective Requirements:		18 Credits	
	Language Requirement (16 credits in the same foreign language, includes ASL)	16	
	Any course numbered 1000 or higher	2	
Emphasis Requirements:		30 Credits	
Sociology of the Family Requirement- Complete the following course:		3	
	SOC 1200	Sociology of the Family	
Lower Division Sociology Requirement - Complete two of the following courses:		6	
	SOC 1020	Modern Social Problems (3.0)	
	SOC 2370	Gender Roles (3.0)	
	SOC 275R	Survey of Current Topics (1.0)	
Sociology Theory Requirement - Complete the following two courses:			
	SOC 3000	Contemporary Social Theory	3
	SOC 3310	Classical Social Theory	3
Upper Division Sociology Requirement - Complete four of the following courses:		12	
	SOC 320G	Race and Minority Relations (3.0)	
	SOC 3400	Sociology of Religion (3.0)	
	SOC 3430	Sociology of Education (3.0)	
	SOC 3520	Environmental Sociology (3.0)	
	SOC 3460	Political Sociology (3.0)	
	SOC 3510	Sociology of Work and Occupations (3.0)	
	SOC 3560	Sociology of Deviance (3.0)	
	SOC 3700	Social Inequality (3.0)	
	SOC 375G	Sociology of Aging (3.0)	
	SOC 3800	Animals and Society (3.0)	
	SOC 4020	Survey Research Design (3.0)	
	SOC 4400	Social Change (3.0)	
	SOC 475R	Current Topics in Sociology (1.0)	
	SOC 490R	Independent Studies (1.0)	
Advanced Research Requirement - Complete one of the following courses:		3	
	SOC 4020	Survey Research Design (3.0)	
	BESC 4040	Applied Behavioral Science Research (3.0)	
	ANTH 3850	Ethnographic Methods (3.0)	
Emphasis Elective Requirements:		18 Credits	
Behavioral Science Electives (6 courses /18 credits). In addition to the requirements listed above, students must complete 18 credits of approved Behavioral Science electives, 12 credits must be upper-division and they must come from ANTH/AUTS/ BESC/FAMS/PSY/SOC/SW. Please see a Behavioral Science advisor for a list of approved courses.		18	

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.

Behavioral Science

6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote
** Recommended if student is considering an MSW program.

Behavioral Science - Sociology Emphasis, B.A. Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Behavioral Science - Sociology Emphasis, B.S.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0) (recommended)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	

Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)**	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:			19 Credits
Complete the following seven courses:			19
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	PSY 1010	General Psychology (3.0) (completed with GE requirements)	
	SOC 1010	Introduction to Sociology (3.0)	
	FAMS 101G	Contemporary Families (3.0)	
	SW 1010	Introduction to Social Work (3.0)	
	BESC 3010	Statistics for the Behavioral Sciences (4.0)	
	BESC 3020	Research Methods for the Behavioral Sciences (3.0)	
Elective Requirements:			18 Credits
	General Elective Requirement (18 elective credits from any courses 1000 level or higher)		18
Emphasis Requirements:			27 Credits
Sociology of the Family Requirement- Complete the following course:			3
	SOC 1200	Sociology of the Family (3.0)	
Lower Division Sociology Requirement - Complete two of the following courses:			6
	SOC 1020	Modern Social Problems (3.0)	
	SOC 2370	Gender Roles (3.0)	
	SOC 275R	Survey of Current Topics (1.0)	
Sociology Theory Requirement - Complete the following two courses:			
	SOC 3000	Contemporary Social Theory	3
	SOC 3310	Classical Social Theory	3
Upper Division Sociology Requirement - Complete four of the following courses:			12
	SOC 320G	Race and Minority Relations (3.0)	
	SOC 3400	Sociology of Religion (3.0)	
	SOC 3430	Sociology of Education (3.0)	

SOC 3520	Environmental Sociology (3.0)	
SOC 3460	Political Sociology (3.0)	
SOC 3510	Sociology of Work and Occupations (3.0)	
SOC 3560	Sociology of Deviance (3.0)	
SOC 3700	Social Inequality (3.0)	
SOC 375G	Sociology of Aging (3.0)	
SOC 3800	Animals and Society (3.0)	
SOC 4020	Survey Research Design (3.0)	
SOC 4400	Social Change (3.0)	
SOC 475R	Current Topics in Sociology (1.0)	
SOC 490R	Independent Studies (1.0)	
Advanced Research Requirement - Complete one of the following courses:		3
SOC 4020	Survey Research Design (3.0)	
BESC 4040	Applied Behavioral Science Research (3.0)	
ANTH 3850	Ethnographic Methods (3.0)	
Emphasis Elective Requirements:		18 Credits
Behavioral Science electives (6 courses /18 credits). In addition to the requirements listed above, students must complete 18 credits of approved Behavioral Science electives, 12 credits must be upper-division and they can come from ANTH/AUT/BESC/FAMS/PSY/SOC/SW. Please see a Behavioral Science advisor for a list of approved courses.		18

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Behavioral Science Bachelor degree courses.

Footnote

** Recommended if student is considering an MSW program.

Behavioral Science - Sociology Emphasis, B.S.

Careers

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists

- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Family Science, B.A.**Requirements**

The Family Science program closely aligns with the requirements of the National Council on Family Relations (NCFR). [NCFR is the premier professional association in the family science field, and these standards require that students gain knowledge and expertise in ten key areas] and is an approved program for the Certified Family Life Educator (CFLE).

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)
Distribution Courses:		
Biology		3
Physical Science		3
Third Science - Additional Biology of Physical Science		3
Humanities (Fulfilled with Foreign Language 2020/202G course)		4
Fine Arts		3
FAMS 1150	Marriage and Relationship Skills	3
Discipline Core Requirements:		67 Credits
FAMS 101G	Contemporary Families (3.0)	3
BESC 3020	Research Methods for the Behavioral Sciences (3.0)	3

Behavioral Science

Family Science Core Requirement - Complete the following courses:		
FAMS 1100	Life Span Development in the Family	3
FAMS 2705	Ethics for Family Interventions	3
FAMS 2800	Teaching Human Sexuality	3
FAMS 3250	Applied Parenting	3
FAMS 3800	Early Development in Families	3
FAMS 3850	Adult Development and Aging	3
FAMS 4400	Family Policy	3
FAMS 4500	Family Life Education Methodology	3
FAMS 4660	Family Financial and Resource Management	3
FAMS 4670	Family Dynamics and Systems	3
FAMS 4680	Family Theory	3
Internship Requirement:		2
FAMS 482R	Strengthening Families Internship (1.0)	
FAMS 481R	Senior Internship (1.0)	
or FAMS 483R	Research Internship (1.0)	
Complete One of the following tracks:		26
Career Track: Mediation/Social Service		
Mediation Specialization		
FAMS 3410	Fundamentals of Mediation and Negotiation (3.0)	
FAMS 4200	Advanced Mediation and Negotiation (3.0)	
FAMS 4300	Family Dispute Resolution (3.0)	
Social Service Worker		
SW 1010	Introduction to Social Work (3.0)	
SW 3000	Social Work Practice I (3.0)	
SOC 1020	Modern Social Problems (3.0)	
SW 3500	Social Welfare Policies and Services (3.0)	
Electives: Students need to complete 8 hours of electives from the following courses: BESC, FAMS, ANTH, AUTS, PSY, SOC, SW.		
Graduate School Track		
PSY 1010	General Psychology (3.0)	
BESC 3010	Statistics for the Behavioral Sciences (4.0)	
PSY 3400	Abnormal Psychology (3.0)	
FAMS 4700	Introduction to Marriage and Family Therapy (3.0)	
Complete one of the following courses:		
FAMS 4040	Secondary Data Analysis (3.0)	
SOC 4020	Survey Research Design (3.0)	
BESC 4040	Applied Behavioral Science Research (3.0)	
Electives: Students need to complete 10 hours of electives from the following courses: BESC, FAMS, ANTH, AUTS, PSY, SOC, SW.		
Elective Requirements:		17 Credits
Language Requirement (12 credits in the same foreign language, includes ASL)		12
Any course numbered 1000 or higher		5

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 Introduction to Writing CC and ENGL 2010 Intermediate Writing Humanities Social Sciences CC or ENGL 2020 Intermediate Writing Science and Technology CC with a C+ or higher for the Family Science degree courses.

Family Science, B.A.

Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Farm and Home Management Advisors

Family Science, B.S.

Requirements

The Family Studies program closely aligns with the requirements of the National Council on Family Relations (NCFR). [NCFR is the premier professional association in the family science field, and these standards require that students gain knowledge and expertise in ten key areas] and is an approved program for the Certified Family Life Educator (CFLE).

[Online Degree Plan](#)

Total Program Credits: 120

General Education Requirements:			35 Credits
ENGL 1010	Introduction to Writing		3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences		3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)		
Complete one of the following:			3
MAT 1030	Quantitative Reasoning (3.0)		
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)		
STAT 1040	Introduction to Statistics (3.0)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (4.0)		

	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Third Science - Additional Biology of Physical Science		3
	Humanities		3
	Fine Arts		3
	FAMS 1150	Marriage and Relationship Skills	3
Discipline Core Requirements:			67 Credits
	FAMS 101G	Contemporary Families	3
	BESC 3020	Research Methods for the Behavioral Sciences	3
Family Science Core Requirement - Complete the following courses:			
	FAMS 1100	Life Span Development in the Family	3
	FAMS 2705	Ethics for Family Interventions	3
	FAMS 2800	Teaching Human Sexuality	3
	FAMS 3250	Applied Parenting	3
	FAMS 3800	Early Development in Families	3
	FAMS 3850	Adult Development and Aging	3
	FAMS 4400	Family Policy	3
	FAMS 4500	Family Life Education Methodology	3
	FAMS 4660	Family Financial and Resource Management	3
	FAMS 4670	Family Dynamics and Systems	3
	FAMS 4680	Family Theory	3
Internship Requirement:			2
	FAMS 482R	Strengthening Families Internship (1.0)	
	FAMS 481R	Senior Internship (1.0)	
or	FAMS 483R	Research Internship (1.0)	
Complete One of the following tracks:			26
Career Track: Mediation/Social Service			
Mediation Specialization			
	FAMS 3410	Fundamentals of Mediation and Negotiation (3.0)	
	FAMS 4200	Advanced Mediation and Negotiation (3.0)	
	FAMS 4300	Family Dispute Resolution (3.0)	

Social Service Worker		
SW 1010	Introduction to Social Work (3.0)	
SW 3000	Social Work Practice I (3.0)	
SOC 1020	Modern Social Problems (3.0)	
or SW 3500	Social Welfare Policies and Services (3.0)	
Electives: Students need to complete 8 hours of electives from the following courses: BESC, FAMS, ANTH, AUTS, PSY, SOC, SW.		
Graduate School Track		
PSY 1010	General Psychology (3.0)	
BESC 3010	Statistics for the Behavioral Sciences (4.0)	
PSY 3400	Abnormal Psychology (3.0)	
FAMS 4700	Introduction to Marriage and Family Therapy (3.0)	
Complete one of the following courses:		
FAMS 4040	Secondary Data Analysis (3.0)	
SOC 4020	Survey Research Design (3.0)	
BESC 4040	Applied Behavioral Science Research (3.0)	
Electives: Students need to complete 10 hours of electives from the following courses: BESC, FAMS, ANTH, AUTS, PSY, SOC, SW.		
Elective Requirements:		18 Credits
Any course numbered 1000 or higher		18

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours – minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Behavioral Science requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 Introduction to Writing CC and ENGL 2010 Intermediate Writing Humanities Social Sciences CC or ENGL 2020 Intermediate Writing Science and Technology CC with a C+ or higher for the Family Science degree courses.

Family Science, B.S.**Careers**

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Behavioral Science

Related Careers

- Farm and Home Management Advisors

Psychology, B.A.

Requirements

The BA in Psychology is designed for students who desire a full bachelor's degree in psychology. The degree will prepare students for careers and further education in Utah, the Mountain West, and nationwide by (a) creating a curriculum built around the five pillars of psychology described by the American Psychological Association (APA); (b) emphasizing skills desired by employers (e.g., written communication, critical thinking, working in teams); and (c) providing engaged learning experiences (e.g., service-learning, internship, capstone) about current psychological topics.

Total Program Credits: 120

General Education Requirements:		36 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
	MAT 1030	Quantitative Reasoning (3.0)
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)
	STAT 1040	Introduction to Statistics (3.0)
	STAT 1045	Introduction to Statistics with Algebra (5.0)
	MATH 1050	College Algebra (4.0)
	MATH 1055	College Algebra with Preliminaries (5.0)
	MATH 1090	College Algebra for Business (3.0)
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)
	HIST 1740	US Economic History (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values 3
	HLTH 1100	Personal Health and Wellness 2
or	PES 1097	Fitness for Life (2.0)
Distribution Course Requirements		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities (Fulfilled with Foreign Language 202G/2020 course)*	4
	Fine Arts Distribution	3
	PSY 1010	General Psychology (Fulfills Social/Behavioral Science) 3
Discipline Core Requirements:		53 Credits
Psychology Core		

	PSY 1100	Human Development Life Span	3
	PSY 2710	Introduction to Brain and Behavior	3
	PSY 3400	Abnormal Psychology	3
	PSY 3420	Cognitive Psychology	3
	PSY 350G	Social Psychology	3
Research Requirement			
	BESC 3010	Statistics for the Behavioral Sciences	4
	PSY 3030	Research Methods for Psychology	4
Biological Requirement. Complete ONE of the following:			3
	PSY 3430	Psychopharmacology (3.0)	
	PSY 3450	Behavioral Neuroscience (4.0)	
	PSY 3490	Sensation and Perception (4.0)	
Developmental Requirement. Complete ONE of the following:			3
	PSY 3200	Infancy and Childhood Development (3.0)	
	PSY 3210	Adolescent Development (3.0)	
	PSY 3220	Adult Development (3.0)	
Cognitive Requirement. Complete ONE of the following:			3
	PSY 3300	Motivation and Emotion (3.0)	
	PSY 3480	Principles of Learning (4.0)	
	PSY 4690	Human Intelligence (3.0)	
Social/Personality Requirement. Complete ONE of the following:			3
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	PSY 3100	Psychology of Gender (3.0)	
	PSY 3460	Personality Theory (3.0)	
Mental & Physical Health Requirement. Complete ONE of the following:			3
	PSY 2800	Human Sexuality (3.0)	
	PSY 3105	Health Psychology (3.0)	
	PSY 4300	Introduction to Counseling and Psychotherapy (3.0)	
Capstone Requirement. Complete at least three credits from the following:			3
	PSY 4150	Tests and Measurements (3.0)	
	PSY 4500	History and Systems of Psychology (3.0)	
	PSY 488R	Advanced Research Experience in Psychology (1.0)	
	PSY 482R	Internship Seminar (1.0)	
and	BESC 481R	Senior Internship (1.0)	
	PSY 4850	Introduction to Pedagogy (3.0)	
Complete twelve additional credits of Psychology Electives. Four credits must be from one of the following if not already taken: PSY 3450, PSY 3480, or PSY 3490. Please see your academic advisor to make sure you will complete at least 40 credits of upper division coursework.			12
Elective Requirements:			31 Credits
	Complete 12 credits of one Foreign Language, including ASL (Foreign Language 202G/2020* course fulfills Humanities Distribution) *		12
	Complete 19 credits of 1000-level or higher coursework from any subject		19

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Psychology requirements must be completed with a grade of C- or better.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Psychology Bachelor degree courses.

Psychology, B.A. Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Psychology, B.S.**Requirements**

The BS in Psychology is designed for students who desire a full bachelor's degree in psychology. The degree will prepare students for careers and further education in Utah, the Mountain West, and nationwide by (a) creating a curriculum built around the five pillars of psychology described by the American Psychological Association (APA); (b) emphasizing skills desired by employers (e.g., written communication, critical thinking, working in teams); and (c) providing engaged learning experiences (e.g., service-learning, internship, capstone) about current psychological topics.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	

	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Course Requirements			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	Fine Arts Distribution		3
	PSY 1010	General Psychology (Fulfills Social/Behavioral Science)	3
Discipline Core Requirements:			53 Credits
Psychology Core			
	PSY 1100	Human Development Life Span	3
	PSY 2710	Introduction to Brain and Behavior	3
	PSY 3400	Abnormal Psychology	3
	PSY 3420	Cognitive Psychology	3
	PSY 350G	Social Psychology	3
Research Requirement			
	BESC 3010	Statistics for the Behavioral Sciences	4
	PSY 3030	Research Methods for Psychology	4
Biological Requirement. Complete ONE of the following:			3
	PSY 3430	Psychopharmacology (3.0)	
	PSY 3450	Behavioral Neuroscience (4.0)	
	PSY 3490	Sensation and Perception (4.0)	
Developmental Requirement. Complete ONE of the following:			3
	PSY 3200	Infancy and Childhood Development (3.0)	
	PSY 3210	Adolescent Development (3.0)	
	PSY 3220	Adult Development (3.0)	
Cognitive Requirement. Complete ONE of the following:			3
	PSY 3300	Motivation and Emotion (3.0)	
	PSY 3480	Principles of Learning (4.0)	
	PSY 4690	Human Intelligence (3.0)	
Social/Personality Requirement. Complete ONE of the following:			3
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	PSY 3100	Psychology of Gender (3.0)	

Behavioral Science

	PSY 3460	Personality Theory (3.0)	
Mental & Physical Health Requirement. Complete ONE of the following:			3
	PSY 2800	Human Sexuality (3.0)	
	PSY 3105	Health Psychology (3.0)	
	PSY 4300	Introduction to Counseling and Psychotherapy (3.0)	
Capstone Requirement. Complete at least three credits from the following:			3
	PSY 4150	Tests and Measurements (3.0)	
	PSY 4500	History and Systems of Psychology (3.0)	
	PSY 488R	Advanced Research Experience in Psychology (1.0)	
	PSY 482R	Internship Seminar (1.0)	
and	BESC 481R	Senior Internship (1.0)	
	PSY 4850	Introduction to Pedagogy (3.0)	
Complete twelve additional credits of Psychology Electives. Four credits must be from one of the following if not already taken: PSY 3450, PSY 3480, or PSY 3490. Please see your academic advisor to make sure you will complete at least 40 credits of upper division coursework.			12
Elective Requirements:			32 Credits
Complete 32 credits of 1000-level or higher coursework from any subject			32

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum overall UVU GPA of 2.0 upon graduation.
3. Minimum 2.5 program GPA upon graduation.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. All major course work taken to meet Psychology requirements must be completed with a grade of C- or better.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor for explanation of all program requirements, a list of recommended classes, and for assistance with creating an academic plan for graduation.

Note: If a student has completed an associate degree through another institution, the required general education courses may be waived.

Note: Students would need to pass ENGL 1010 and ENGL 2010 or 2020 with a C+ or higher as prerequisites for the Psychology Bachelor degree courses.

Psychology, B.S.

Careers

Careers:
Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Industrial-Organizational Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Social Work, B.S.W.

Requirements

The UVU Behavioral Science Department offers classes that fulfill the social science distribution requirements for graduation, the Behavioral Science pre-major for the associate degree, the Behavioral Science major for the bachelor degree (with an emphasis in Anthropology, Family Studies, Psychology, or Sociology, a Bachelor of Social Work, and a Certificate of Proficiency in Substance Use Disorder Counseling (SUDC).

Total Program Credits: 120

Matriculation Requirements:			
Admission to the BSW program includes the following requirements:			
<ol style="list-style-type: none"> 1. Completion of all general education courses. 2. Completion of SW 1010 with a B- grade or higher. 3. Completion of ENGL 1010 and ENGL 2010 or 2020 with a C+ grade or higher. 4. Overall GPA of 2.5 or higher. 5. Approval of the Social Work Admissions Committee. 			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	STAT 1040	Introduction to Statistics	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:			3
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	Fine Arts		3
	PSY 1010	General Psychology (Social/Behavioral Science)	3
Discipline Core Requirements:			64 Credits
Social Work Core - Complete the following courses:			
	BESC 3010	Statistics for the Behavioral Sciences	4
	BESC 3020	Research Methods for the Behavioral Sciences	3
	BESC 380G	Interviewing Skills	3
	SW 1010	Introduction to Social Work	3

SW 2100	Human Behavior and the Social Environment I *	3
SW 3000	Social Work Practice I *	3
SW 3100	Social Work Practice II *	3
SW 3200	Social Work Practice III *	3
SW 3400	Human Behavior and the Social Environment II *	3
SW 3500	Social Welfare Policies and Services *	3
SW 3600	Ethics and Values in Social Work Practice *	3
SW 371G	Diversity Issues in Social Work Practice *	3
SW 4800	Integrated Seminar I *	1
SW 481R	Field Placement * (1.0)	5
SW 481R	Field Placement * (1.0)	5
SW 4850	Integrated Seminar II *	1
Social Work Electives - Complete 15 credits of approved social work electives. Choose from the following courses:		15
FAMS 3410	Fundamentals of Mediation and Negotiation (3.0)	
BESC 3100	Career and Graduate School Preparation for Behavioral Science Majors (3.0)	
BESC 4050	Clinical Research (3.0)	
SOC 4020	Survey Research Design (3.0)	
PSY 3400	Abnormal Psychology (3.0)	
SW 3510	International Social Work (3.0)	
SW 3750	Child Abuse/Neglect and Domestic Violence (3.0)	
SW 4500	Crisis Intervention (3.0)	
SW 4700	Case Management in Social Work Practice (3.0)	
SW 475R	Current Topics in Social Work (3.0)	
SW 489R	Advanced Research in Social Work (1.0)	
SW 490R	Independent Studies (1.0)	
Elective Requirements:		21 Credits
Complete 21 additional credits of any courses 1000 to 4000 level.		21

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.5 or above.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 credit hours earned in the last 45 credit hours.
4. BSW Social Work Core requirements must be completed with a grade of B- or higher.
5. All 15 credits of Social Work electives must be completed with a C- grade or higher.
6. Successful completion of at least one Global/Intercultural course.

Note: Please see department advisor to make an academic plan and for an explanation of all admission and program requirements.

Footnote

* Students must be formally admitted into the BSW program before they can register for this course.

Social Work, B.S.W.**Careers****Careers:**

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Marriage and Family Therapists
- Counselors, All Other
- Child, Family, and School Social Workers
- Healthcare Social Workers
- Mental Health and Substance Abuse Social Workers
- Social Workers, All Other
- Probation Officers and Correctional Treatment Specialists
- Social Work Teachers, Postsecondary

Biology

Name:	Biology
Location:	SB 243
Telephone:	801-863-8511
Email:	korstaal@uvu.edu
Web Address:	www.uvu.edu/biology/
Chair:	James Price
Chair UVU Email:	PRICEJM@uvu.edu

Mission Statement

The mission of the Department of Biology is two-fold: first, we are committed to educate students in the principle tenets of biology through structured inquiry and opportunities for individualized experiential learning. Second, we are committed to teaching ethical behavior in experimental design and practice to all of our students. The department strives to provide the best educational opportunities possible for students to attain their academic goals and to facilitate faculty in scholarship in an atmosphere that encourages free exchange of ideas.

Our Philosophy and Values

The Department of Biology believes that students and faculty have a shared responsibility to obtain knowledge. Faculty should maintain their expertise by ongoing investigation, presentation, and pursuit of scholarly activities. In addition to the pursuit of scholarly information in biology, students should develop skills in communication, analysis, and critical thinking relevant to biology and other disciplines.

Goals

The Department of Biology recognizes excellent student education as its first priority. In addition to formal programs of study, we offer opportunities for research, service, field and laboratory activities, and secondary education training.

The UVU Biology program offers a variety of courses that investigate the living world, including courses in biology, botany, ecology, genetics, human physiology, microbiology, and zoology. A course of study may be designed to provide breadth in the life sciences or emphasize field or laboratory oriented biology.

Biology

Advisors:

- **Biology (A-Ha), Botany:** Jessica Jones
- **Office:** PS 201c
- **Telephone:** 801-863-6208
- **Email:** jessicaj@uvu.edu

- **Biology (Hb-OI):** Nick Wilbur
- **Office:** PS 201
- **Telephone:** 801-863-5259
- **Email:** nwilbur@uvu.edu

- **Biology (Om-SI):** Cody Peterson
- **Office:** PS 201b
- **Telephone:** 801-863-5642
- **Email:** cody.peterson@uvu.edu

- **Biology (Sm-Z), Biotechnology:** Courtney Weilenmann
- **Office:** PS 201d
- **Telephone:** 801-863-6791
- **Email:** courtney.weilenmann@uvu.edu

Career Opportunities

Majors in Biology prepare for a wide variety of occupations in education, government, medicine, and research. Students majoring in a UVU Bachelor's program should meet with the Biology Department advisor early in their program.

Job Outlook

Graduates with degrees in Biology are especially in demand in the secondary education, health, natural resource management, and biotechnology areas.

Programs

Eight degree options are available: Associate in Science or Associate in Arts with a pre-major in Biology; Bachelor of Science in Integrated Studies (IS) with a Biology emphasis, Bachelor of Science in Biology, Bachelor of Science in Biotechnology, Bachelor of Science in Biology Education, and Bachelor of Science in Botany. A minor in biology is available for those in other baccalaureate programs.

All AS/AA and BS Biology, Botany, and IS majors must consult with the Biology Department advisor prior to their first semester of enrollment at UVU or immediately upon changing to one of these majors to formulate a plan of study. BS in Biotechnology majors consult with the Biotechnology advisor. BS in Biology Education majors consult with Biology Secondary Education advisor. BS in Integrated Studies must also consult with the Integrated Studies advisor. Those interested in Regulatory Affairs need to speak with the Regulatory Affairs Program Director.

Students interested in a career in biology or related field are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., pharmacy, medicine) require additional post-baccalaureate education. The UVU AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor's program and meet the minimum requirements. The Departmental Bachelor of Science Degrees may be used for entry into a career or in preparation for post-baccalaureate (for masters and doctoral degrees) or professional education (e.g., medical, dental) education. A Bachelor of Science Degree in Integrated Studies, Biology emphasis is available. Please see Biology advisors for more information.

DEPARTMENT CHAIR

PRICE, James V. *Professor*

FACULTY

BAYER, Virginia E. *Associate Professor*

BRACKEN, Mark *Associate Professor*

BRADSHAW, James *Lecturer*

BROOKS, Lauren *Assistant Professor*

BYBEE, Paul *Professor*

DOMYAN, Eric *Assistant Professor*

FLOOD, Sara *Assistant Professor*

GAZDIK, Michaela *Associate Professor*

HARRIS, James G. *Professor*

HOUGH, Colleen *Associate Professor*

KOPP, Olga R. *Professor*

KUDDUS, Ruhul H. *Professor*

MALONE, Catherine L. *Associate Professor*

OGDEN, T. Heath *Associate Professor*

PRICE, James V. *Professor*

ROBBINS, Robert R. *Professor*

SHIVELY, Michael J. *Professor*

STEVENS, Michael T. *Professor*

TAUZIN, Sebsten *Assistant Professor*

TAYLOR, Danielle *Lecturer*

TAYLOR, Devin *Lecturer*

TOLMAN, Richard R. *Professor*

VAN BUREN, Renee *Professor*

WHALEY, Wayne *Professor*

WILSON-ASHWORTH, Heather A. *Professor*

WOODWARD, Scott *Lecturer*

ZAHN, Geoffrey *Assistant Professor*

DE NESNERA, Kristin *Assistant Professor*

Course Descriptions

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Botany.....	605
Biotechnology.....	607
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Degrees & Programs

Biology, A.A.

Requirements

Students interested in biology, or related fields, are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., Pharmacy or Medicine) require additional post-baccalaureate education. The AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor's program and meet the minimum requirements.

Total Program Credits: 60

General Education Requirements:		39 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3

or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1610	College Biology I (To be taken with BIOL 1615)	4
	CHEM 1210	Principles of Chemistry I (To be taken with CHEM 1215)	4
	CHEM 1220	Principles of Chemistry II (To be taken with CHEM 1225)	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			13 Credits
Complete the following:			
	BIOL 1615	College Biology I Laboratory (To be taken with BIOL 1610)	1
	BIOL 1620	College Biology II	3
and	BIOL 1625	College Biology II Laboratory	1
	CHEM 1215	Principles of Chemistry I Laboratory (To be taken with CHEM 1210)	1
	CHEM 1225	Principles of Chemistry II Laboratory (To be taken with CHEM 1220)	1
	Minimum of 2 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes). BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor.		6
Elective Requirements:			8 Credits
	Same Foreign Language.		8

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Biology, A.A.

Careers

Careers:

Biology

This degree should be used in preparation for the BS in Biology.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Biology, A.S.

Requirements

Students interested in biology, or related fields, are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., Pharmacy or Medicine) require additional post-baccalaureate education. The AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor's program and meet the minimum requirements.

Total Program Credits: 60

General Education Requirements:		39 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1610	College Biology I (To be taken with BIOL 1615)	4
	CHEM 1210	Principles of Chemistry I (To be taken with CHEM 1215)	4
	CHEM 1220	Principles of Chemistry II (To be taken with CHEM 1225)	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:		15 Credits	
Complete the following:			
	BIOL 1615	College Biology I Laboratory (To be taken with BIOL 1610)	1
	BIOL 1620	College Biology II	3
and	BIOL 1625	College Biology II Laboratory	1

CHEM 1215	Principles of Chemistry I Laboratory (To be taken with CHEM 1210)	1
CHEM 1225	Principles of Chemistry II Laboratory (To be taken with CHEM 1220)	1
Minimum of 3 additional biology courses (BIOL, BOT, MICR, or ZOO prefix). BIOL 1010 and BIOL 1050 cannot be used to meet this requirement. See Biology Advisor.		8
Elective Requirements:		6 Credits
Complete any course 1000 or higher. See Biology Advisor.		6

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Biology, A.S.

Careers

Careers:
This degree should be used in preparation for the BS in Biology.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Biology, Minor

Requirements

The minor is a way for students to investigate the Biology Degree.

Total Program Credits: 21

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:		21 Credits	
Complete the following with a grade of C- or better:			
	BIOL 1610	College Biology I	4
	BIOL 1615	College Biology I Laboratory	1
	BIOL 1620	College Biology II	3
	BIOL 1625	College Biology II Laboratory	1
Complete 12 upper-division credits from any BIOL, BOT, MICR, or ZOO courses with a grade of C- or higher in each. BIOL 489R, BIOL 499R, cannot be used to meet this requirement.		12	

Biology, Minor

Careers

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Biology Education, B.S.

Requirements

Biology is the study of living organisms and includes study of subjects such as evolution, ecology, zoology, physiology, anatomy, and botany among other subjects. Completion of this degree will prepare students to teach classes in high school biology, and related subjects, plus integrated science at the 7th grade level.

Total Program Credits: 125

Matriculation Requirements:			
Admission to Professional Education status is a requirement for enrollment in professional studies level courses. Admission criteria includes:			
1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.			
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.			
3. Completion of all General Education requirements and the majority of content area courses.			
4. Pass LiveScan Criminal Background Check.			
General Education Requirements:			39 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing Humanities Social Sciences	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
	BIOL 1610	College Biology I	4
	CHEM 1110	Elementary Chemistry for the Health Sciences	4
	CHEM 1120	Elementary Organic Bio-Chemistry	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	HIST 4320	History of Scientific Thought (Social/Behavioral Science)	3
Discipline Core Requirements:			86 Credits
	BIOL 1615	College Biology I Laboratory	1
	BIOL 1620	College Biology II	3
	BIOL 1625	College Biology II Laboratory	1
	MICR 2060	Microbiology for Health Professions	3
and	MICR 2065	Microbiology for Health Professions Laboratory	1
or	MICR 3450	General Microbiology (3.0)	

and	MICR 3455	General Microbiology Laboratory (1.0)	
	BIOL 3500	Genetics	3
	BIOL 3700	General Ecology	3
	BIOL 4200	Teaching Methods in Science	3
	BIOL 4500	Principles of Evolution	3
	BIOL 494R	Student Seminar	1
	BOT 2050	Field Botany	3
or	BOT 2100	Flora of Utah (3.0)	
or	BOT 4300	Native Trees and Shrubs of Utah (3.0)	
	BOT 3340	Plant Biology	4
	ZOOL 2320	Human Anatomy	3
	ZOOL 2325	Human Anatomy Laboratory	1
	ZOOL 2420	Human Physiology	3
	ZOOL 2425	Human Physiology Laboratory	1
	ZOOL 3100	Vertebrate Zoology	3
	ZOOL 3105	Vertebrate Zoology Laboratory	1
	ZOOL 3200	Invertebrate Zoology	3
	ZOOL 3205	Invertebrate Zoology	1
	CHEM 1115	Elementary Chemistry Laboratory	1
	CHEM 1125	Elementary Organic Bio-Chemistry Laboratory	1
Education Courses			
	EDSC 3000	Educational Psychology	3
	EDSC 3050	Foundations of American Education	2
	EDSC 3250	Instructional Media	2
	EDSC 4200	Classroom Management I	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10
	EDSP 3400	Exceptional Students	2
	GEO 1010	Introduction to Geology	3
	GEO 1015	Introduction to Geology Laboratory	1
	PHYS 1010	Elementary Physics	3

Graduation Requirements:

1. Complete the required minimum credit hours.
2. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
3. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 3000 or above).
5. A minimum of 30 credits must be in the major (BIOL, BOT, MICR, or ZOOL prefixes), courses as follows: minimum of 9 Biology credits must be taken at UVU and a minimum of 20 Biology credits must be upper-division.
6. Complete the appropriate application for graduation form.
7. Successful completion of at least one Global/Intercultural course.
8. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.

Biology

Biology Education, B.S.

Careers

Careers:
Secondary Education Teacher Grade 7th-12th.

Related Careers

- Biological Science Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Biology, B.S.

Requirements

Students interested in Biology, or related fields, are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., Pharmacy or Medicine) require additional post-baccalaureate education. The BS degree in Biology may be used for entry into a career or in preparation for graduate (Masters/PhD) or professional schools (medical, dental, pharmacy, etc.).

Total Program Credits: 120

Matriculation Requirements:		
BIOL 1610 with C- or higher and approval of Biology Department advisor.		
General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
MATH 1050	College Algebra	4
or MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1610	College Biology I	4
CHEM 1210	Principles of Chemistry I	4
CHEM 1220	Principles of Chemistry II	4
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		51 Credits
BIOL 1615	College Biology I Laboratory	1
BIOL 1620	College Biology II	3
BIOL 1625	College Biology II Laboratory	1
BIOL 3400	Cell Biology	3

	BIOL 3500	Genetics	3
	BIOL 3550	Molecular Biology	3
	BIOL 3600	Biological Chemistry	3
	BIOL 3700	General Ecology	3
	BIOL 4500	Principles of Evolution	3
	BIOL 494R	Student Seminar	1
	BIOL 497R	Biology Colloquium (0.5 cr, two required) (0.5)	1
	STAT 2040	Principles of Statistics	4
or	MATH 1060	Trigonometry (3.0)	
and	MATH 1210	Calculus I (5.0)	
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
	PHYS 2020	College Physics II	4
	PHYS 2025	College Physics II Lab	1
	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1225	Principles of Chemistry II Laboratory	1
	CHEM 2310	Organic Chemistry I	4
	CHEM 2315	Organic Chemistry I Laboratory	1
	CHEM 2320	Organic Chemistry II	4
	CHEM 2325	Organic Chemistry II Laboratory	1
Elective Requirements:			30 Credits
	Choose 4 credits from any MICR electives.		4
	Choose 3 credits from any BOT electives.		3
	Choose 3 credits from any ZOOI electives (except ZOOI 1090).		3
	Additional credits to meet credit and upper-division requirements.		20

Graduation Requirements:

1. Complete the required minimum credit hours.
2. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
3. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 3000 or above).
5. A minimum of 40 credits must be in the major (BIOL, BOT, BTEC, MICR, or ZOOI prefixes), 30 of which must be upper-division. A minimum of nine Department credits must be taken at UVU.
6. Except for 490R Special Topics courses, a maximum cumulative total of 9 credits in any combination of upper division Departmental courses with an "R" designation may count toward graduation.
7. Complete Biology Department core courses with a grade of "C-" or higher in each course.
8. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in biology department courses.
9. Complete the appropriate application for graduation form.
10. Successful completion of at least one Global/Intercultural course.

Biology, B.S.

Careers

Careers:
The multiple career opportunities available for graduates with a degree in Biology make it a highly versatile degree. In addition to standard career options, such as working in the fields of healthcare, biotechnology, agriculture, education, and environmental science, biology graduates find employment in fields as diverse as art (scientific illustrator), public relations (for science museums, etc.), governmental agencies (wild land restoration, etc.), and non-profit organizations (wildlife

conservation, etc.). With additional education, majors can go onto careers in law (medical/biotechnology patent attorney, forensic scientist), business (healthcare and agricultural industry management), engineering (biomechanical device development), and even aerospace (a number of NASA astronauts have been biomedical researchers). A degree in Biology can provide for career opportunities as limitless and evolving as life itself.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Biotechnology, B.S.

Requirements

The Bachelor's Degree in Biotechnology will prepare students to enter the field of research, education, pharmaceuticals, forensics, and a variety of other careers. It is also great preparation for advanced degrees in the sciences.

Total Program Credits: 124

General Education Requirements:		39 Credits	
ENGL 1010	Introduction to Writing	3	
ENGL 2020	Intermediate Writing--Science and Technology	3	
MATH 1050	College Algebra	4	
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3	
HIST 2700	US History to 1877 (3.0)		
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
PHIL 2050	Ethics and Values	3	
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
BIOL 1610	College Biology I	4	
CHEM 1210	Principles of Chemistry I	4	
CHEM 1220	Principles of Chemistry II	4	
Humanities Distribution		3	
Fine Arts Distribution		3	
Social/Behavioral Science		3	
Discipline Core Requirements:		72 Credits	
BIOL 1615	College Biology I Laboratory	1	
BIOL 3400	Cell Biology	3	
BIOL 3500	Genetics	3	
BIOL 3515	Advanced Genetics Laboratory	1	
BIOL 3550	Molecular Biology	3	
BIOL 3600	Biological Chemistry	3	
BIOL 3605	Biochemistry Laboratory	1	

	BIOL 4550	Molecular Evolution and Bioinformatics	3
	BTEC 481R	Biotechnology Internship	5
	BTEC 481R	Biotechnology Internship	5
or	BTEC 489R	Student Research (1.0)	
and	BTEC 499R	Senior Thesis (1.0)	
or	BIOL 489R	Student Research (1.0)	
and	BIOL 499R	Senior Thesis (1.0)	
	MICR 2065	Microbiology for Health Professions Laboratory	1
	MICR 2060	Microbiology for Health Professions	3
	STAT 2040	Principles of Statistics	4
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
	PHYS 2020	College Physics II	4
	PHYS 2025	College Physics II Lab	1
	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1225	Principles of Chemistry II Laboratory	1
	CHEM 2315	Organic Chemistry I Laboratory	1
	CHEM 2310	Organic Chemistry I	4
	CHEM 2320	Organic Chemistry II	4
	CHEM 2325	Organic Chemistry II Laboratory	1
	BTEC 1010	Fundamentals of Biotechnology I Career Survey	3
	BTEC 2010	DNA Manipulation and Analysis	3
	BTEC 2020	Protein Purification and Analysis	3
	BTEC 2030	Cell Culture Techniques	2
	BTEC 2040	Advanced Nucleic Acid Laboratory	3
Elective Requirements:			13 Credits
Additional credits to meet credit and upper-division requirements.			13

Graduation Requirements:

1. Complete the required minimum credit hours.
2. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
3. A minimum of 40 credits must be upper-division (numbered 3000 or above).
4. Complete core courses with a grade of "C-" or higher in each course.
5. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in core courses.
6. Successful completion of at least one Global/Intercultural course.

Biotechnology, B.S.

Careers

Careers:

Graduates with a Bachelor Degree in Biotechnology can pursue a variety of careers and positions both in Utah and the nation. Companies that make up the life science industry are varied and include, but are not limited to, Biotechnology, Pharmaceutical, Medical Diagnostics, Forensics, Molecular/Cell/Microbiology, Biochemistry, Secondary Education, Natural Products, and Agricultural Sciences.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Biological Science Teachers, Postsecondary

Biology

Botany, B.S.

Requirements

Students interested in botany, or related fields, are strongly encouraged to earn at least a baccalaureate degree (BS). To be competitive in the job market additional post-baccalaureate education is suggested. The BS degree in Botany may be used for entry into a career or in preparation for graduate (Masters/ PhD) or professional schools (medical, pharmacy etc.).

Total Program Credits: 120

Matriculation Requirements:			
1. BIOL 1610 with C- or higher and approval of Biology Department adviser.			
General Education Requirements:			39 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1610	College Biology I	4
	CHEM 1210	Principles of Chemistry I	4
	CHEM 1220	Principles of Chemistry II	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			57 Credits
	BIOL 1615	College Biology I Laboratory	1
	BIOL 1620	College Biology II	3
	BIOL 1625	College Biology II Laboratory	1
	BIOL 3400	Cell Biology	3
	BIOL 3500	Genetics	3
	BIOL 3700	General Ecology	3
	BIOL 4500	Principles of Evolution	3
	BIOL 494R	Student Seminar	1
	BIOL 497R	Biology Colloquium (0.5 cr, two required) (0.5)	1
	BOT 2100	Flora of Utah	3
or	BOT 4300	Native Trees and Shrubs of Utah (3.0)	
	BOT 2400	Plant Kingdom	4
	BOT 4100	Plant Anatomy	3

	BOT 4200	Plant Systematics	3
	BOT 4600	Plant Physiology	3
and	BOT 4605	Plant Physiology Laboratory	1
	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1225	Principles of Chemistry II Laboratory	1
	CHEM 2310	Organic Chemistry I	4
	CHEM 2315	Organic Chemistry I Laboratory	1
	STAT 2040	Principles of Statistics	4
or	MATH 1060	Trigonometry (3.0)	
and	MATH 1210	Calculus I (5.0)	
	MICR 3450	General Microbiology	3
and	MICR 3455	General Microbiology Laboratory	1
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
Elective Requirements:			24 Credits
	Additional credits to meet credit and upper-division requirements.		24

Graduation Requirements:

1. Complete the required minimum credit hours.
2. Completion of GE and specified departmental requirements.
3. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
4. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
5. A minimum of 40 credits must be upper-division (numbered 3000 or above).
6. A minimum of 40 credits must be in the Biology Department (BIOL, BOT, BTEC, MICR, or ZOOL prefixes), 30 of which must be upper-division. A minimum of nine Biology Department credits must be taken at UVU.
7. Complete discipline core courses with a grade of "C-" or higher in each course.
8. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in Biology Department courses.
9. Complete the appropriate application for graduation form.
10. Successful completion of at least one Global/Intercultural course.

Botany, B.S.

Careers

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Biological Science Teachers, Postsecondary

Biology Graduate Programs

College of Science

- **Dean:** Daniel Fairbanks
- **Office:** SB 241
- **Telephone:** 801-863-6441
- **Email:** daniel.fairbanks@uvu.edu

Graduate Certificate in Regulatory Affairs for Life Sciences

- **Department Chair:** Jim Price
- **Office:** SB 243e
- **Telephone:** 801-863-8605
- **Email:** bayervi@uvu.edu
- **Advisor:** Terrell Wycne
- **Office:** HP 203a
- **Telephone:** 801-863-6208
- **Email:** wycne@uvu.edu

Program Description

The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Admission Requirements

1. Bachelor degree from a regionally accredited US college or university.
2. A Minimum GPA of 3.0 on a 4.0 scale.

2018-19 Base Graduate-Tuition and General Fee Schedule

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00
2.0	566.00	70.00	636.00	2.0	1,726.00	70.00	1,796.00
2.5	707.50	87.50	795.00	2.5	2,157.50	87.50	2,245.00
3.0	849.00	105.00	954.00	3.0	2,589.00	105.00	2,694.00
3.5	990.50	122.50	1,113.00	3.5	3,020.50	122.50	3,143.00
4.0	1,132.00	140.00	1,272.00	4.0	3,452.00	140.00	3,592.00
4.5	1,273.50	157.50	1,431.00	4.5	3,883.50	157.50	4,041.00
5.0	1,415.00	175.00	1,590.00	5.0	4,315.00	175.00	4,490.00
5.5	1,556.50	192.50	1,749.00	5.5	4,746.50	192.50	4,939.00
6.0	1,698.00	210.00	1,908.00	6.0	5,178.00	210.00	5,388.00
6.5	1,839.50	227.50	2,067.00	6.5	5,609.50	227.50	5,837.00
7.0	1,981.00	245.00	2,226.00	7.0	6,041.00	245.00	6,286.00
7.5	2,122.50	262.50	2,385.00	7.5	6,472.50	262.50	6,735.00

8.0	2,264.00	280.00	2,544.00	8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00	8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00	9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00	9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00	10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50	10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00	11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50	11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00	12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50	12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00	13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50	13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00	14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50	14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00	15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50	15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00	16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50	16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00	17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50	17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00	18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50	18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00	19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50	19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00	20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50	20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00	21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50	21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00	22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50	22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00	23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50	23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00	24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50	24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00	25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

Course Descriptions

Biology..... 601

Degrees & Programs

Regulatory Affairs For Life Sciences, Graduate Certificate

Requirements

The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials

Biology Graduate Programs

include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Total Program Credits: 15

Matriculation Requirements:			
1. B.S. degree in Biology, Biotechnology, or related field.			
Discipline Core Requirements:			15 Credits
	BIOL 6000	Regulatory Affairs for Life Sciences	4
	BIOL 6010	Quality Management Systems for the Life Sciences	2
	BIOL 6020	Design Control and Risk Management for the Life Sciences	3
	ENGL 5340	Technical Communication Theory and Practice	3
	BIOL 579R	Special Topics	2
	BIOL 681R	Biology Internship	1
or	BIOL 680R	Capstone Project (1.0)	

Graduation Requirements:

1. Minimum of 15 credits required for certificate
2. Minimum GPA of 3.0 for graduation
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

Regulatory Affairs For Life Sciences, Graduate Certificate

Careers

Contact the department for careers.

Related Careers

- Natural Sciences Managers
- Biological Scientists, All Other
- Life Scientists, All Other
- Biological Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Business Graduate Programs

Woodbury School of Business

- **Dean:** Norman S. Wright
- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** norman.wright@uvu.edu

Master of Business Administration

- **Program Director:** Bill Neal
- **Office:** WB 127
- **Telephone:** 801-863-6148
- **Email:** william.neal@uvu.edu
- **Admissions (Part-time Professional Program) and Marketing Manager:** Matthew Moon
- **Office:** WB 127a
- **Telephone:** 801-863-5099
- **Email:** mmoon@uvu.edu
- **Admissions Coordinator (Full-time Accelerated Program):** Gina Johnson
- **Office:** WB 146p
- **Telephone:** 801-863-7494
- **Email:** gina.johnson@uvu.edu
- **Administrative Support:** Monique Roese
- **Office:** WB 127
- **Telephone:** 801-863-5504
- **Email:** moniquer@uvu.edu
- **Academic Advisor:** Terry Smith
- **Office:** WB 132a
- **Telephone:** 801-863-8314
- **Email:** acordte@uvu.edu

Program Description

For complete and current information about the MBA program, please access our web at www.uvu.edu/mba.

The Masters of Business Administration at UVU includes two distinct options, both of which offer emphases in accounting, finance, marketing, and management.

1. The **Part-time Professional MBA Program** leverages the management experiences of our professional students while focusing on application and practice through the use of group discussions, case studies, simulations, projects, and interaction with regional organizations and business leaders. Classes are held on Tuesday and Thursday evenings on the Orem campus which begins fall semester (August). Additionally, classes are held on Monday and Wednesday evenings (or Tuesday and Thursday evenings beginning in alternating years) at the Thanksgiving Point location which begins spring semester (January). The program is completed in six semesters over a two-year period.
2. The **Full-time Accelerated MBA Program** is designed to meet the needs of students who have completed their undergraduate degree and would like to continue their education through an enhanced one-year, three-semester program. The format requires a full-time effort as classes, workshops, and events are scheduled throughout the week. Due to the rigorous demands of this program, employment during enrollment is limited to 15-20 hours per week. Courses concentrate on real-world and engaged activities designed to assist students as they prepare to enter the business world.

The MBA program embraces the university's designation as an engaged learning campus. Students immerse themselves in all aspects of business management, including accounting, leadership, marketing, economics, ethics, and social responsibility. Throughout the program, students will participate in several integration modules designed to assimilate the various functions of business through simulations, comprehensive case studies and real-world learning projects.

Program Prerequisites

After students are admitted into either the full-time or part-time program, they may demonstrate knowledge proficiency of all prerequisites by submitting official transcripts with a "B-" or higher in equivalent courses, *OR* by completing an online, abbreviated MBA Prep Course, **prior** to starting the program. Prerequisites include:

- Financial Accounting and Managerial Accounting
- Principles of Finance (*within the last 5 years*)
- Statistics (*within the last 5 years*)
- Excel proficiency (*within the last 5 years*)
- Principles of Microeconomics and Macroeconomics (recommended but optional)

NOTE: Students who choose to meet these requirements by completing the MBA Prep Courses will need to obtain 80% or higher on the final assessment for each course. The prep courses may be completed through MyEducator. Specific details are available at www.uvu.edu/mba

Accounting Track Prerequisites

In addition to the courses listed above, all students pursuing the **accounting emphasis** must fulfill the following additional prerequisites (or equivalents) with a grade of C- or higher.

- Intermediate Accounting I
- Intermediate Accounting II
- Cost Management
- Individual Income Tax
- Accounting Information Systems
- Advanced Financial Accounting
- Auditing
- Corporate Tax

Finance Track Prerequisites

In addition to the courses listed above, all students pursuing the **finance emphasis** must fulfill the following additional prerequisites (or equivalents) with a grade of B- or higher.

- Managerial Statistics
- Macroeconomics
- Microeconomics
- Financial and Managerial Accounting
- Principles of Finance
- Business Calculus or Business Analytics

Marketing Track Prerequisites

In addition to the courses listed above, all students pursuing the **marketing emphasis** must fulfill the following additional prerequisites (or equivalents) with a grade of C- or higher.

- Principles of Marketing
- Microeconomics

Application Process

Baccalaureate degree holders with both business and non-business majors may apply. Deadlines and current application requirements are posted on the website, www.uvu.edu/mba. Applicants must submit all of the following to the Woodbury School of Business:

1. **Application** – Complete online at www.uvu.edu/mba and pay the \$45 application fee (\$145 for international students).
2. After submitting the application fee, applicants will access their account and select *Supplemental Items* to complete the additional requirements listed below.
 - **Recommendations** - List the name and email address of three individuals who will be sent a link to submit their recommendation.
 - **Essays** - Submit responses for two essay questions of 400 words each
 - **Resume** - Attach current resume which highlights educational background and professional work experience.

Business Graduate Programs

- **College Transcripts** -After the application fee has been paid, request official transcripts to be sent to etranscriptr@uvu.edu. Transcripts will be evaluated based on cumulative GPA or last 60 semester credits.
 - **Graduate Test** - Provide evidence of potential for success which may be demonstrated by submitting an official GMAT or GRE test score.
- a. The goal is to obtain a 500 or above on the GMAT (perfect score is 800); GRE scores are converted to determine a GMAT equivalent.
 - b. Test preparation resources and registration information available at www.uvu.edu/mba.

NOTE: Consideration to waive the graduate test requirement is given to students with a GPA of 3.6 or higher (*cumulative or last 60 credits*) after meeting with the MBA program director.

Additional Requirements for International Student Applicants

1. **English Proficiency** - Submit official TOEFL or IELTS scores. Required of applicants for whom English is a second language *AND* who earned a bachelor's degree outside of the United States. (Minimum TOEFL score of 80 or above or an IELTS score of 6.5 or higher.) The MBA office reserves the right to not waive the English proficiency requirement to ensure students will be adequately prepared for the rigors of the MBA program.
2. **Affidavit of Support** - Upload a signed form completed by person accepting financial responsibility.
3. **Bank Statement** - Provide document as requested on Affidavit of Support from student or sponsor.
4. **Copy of Passport** - Attach a copy of the passport for the student and any dependents who will also need an I-20.
5. **Interview** - An interview may be required as part of the application review process.

Application Deadlines

- Application window – September 1 through April 1, or until the cohort is full for the fall start date. *See MBA Office for details.*
- Rolling Admissions – Applicant files are reviewed upon completion, and applicants are generally notified of an admission decision within a few weeks.
- A limited number of Graduate Assistantships are available annually for students enrolled in the full-time program in which students are able to earn \$5,000 to \$10,000.

Application deadlines for international students:

- If outside the U.S. - May 1
- If in the U.S. - May 15

Reapplication

If an applicant is not admitted, he/she may reapply again at a later time. All current admission requirements at the time of application must be met.

Satisfactory Progress

Continuation in the Master of Business Administration program is determined by: (1) satisfactory progress (C or higher) in all courses (completed courses with a grade lower than a C must be repeated) and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than C; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Business Administration program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or

3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the Master of Business Administration program is a requirement for enrollment into all Master of Business Administration courses.

Sample of Employers Who Have Hired Graduates

Goldman Sachs, Xactware, NuSkin, Walmart, Franklin Templeton, Adobe, Qualtrics, Domo, Blackpine, Xlear, Vivint, IHC, IM Flash, Boeing, DoTERRA, Delta Airlines, US Synthetics, Proof Point, VitalSmarts, AutoSource, Journal Technologies, Greener Equities, State of Utah, Bank of America Fork, inVentiv Health, Zennoa, Turbo Air, LH Miller Sports and Entertainment, America Preparatory Schools, Purch, KPMG, Zions Bank, Wasatch Product Development

2018-19 Master of Business Administration--Tuition and Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
1	\$612	\$35	\$647	1	\$1,328	\$35	\$1,363	
2	\$1,224	\$70	\$1,294	2	\$2,656	\$70	\$2,726	
3	\$1,836	\$105	\$1,941	3	\$3,984	\$105	\$4,089	
4	\$2,448	\$140	\$2,588	4	\$5,312	\$140	\$5,452	
5	\$3,060	\$175	\$3,235	5	\$6,640	\$175	\$6,815	
6	\$3,672	\$210	\$3,882	6	\$7,968	\$210	\$8,178	
7	\$4,284	\$245	\$4,529	7	\$9,296	\$245	\$9,541	
8	\$4,896	\$280	\$5,176	8	\$10,624	\$280	\$10,904	
9	\$5,508	\$315	\$5,823	9	\$11,952	\$315	\$12,267	
10	\$6,120	\$350	\$6,470	10	\$13,280	\$350	\$13,630	
11	\$6,732	\$350	\$7,082	11	\$14,608	\$350	\$14,958	
Equal Tuition Payment for 12.0-18.0 credit hours								
12	\$7,344	\$350	\$7,694	12	\$15,936	\$350	\$16,286	
13	\$7,344	\$350	\$7,694	13	\$15,936	\$350	\$16,286	
14	\$7,344	\$350	\$7,694	14	\$15,936	\$350	\$16,286	
15	\$7,344	\$350	\$7,694	15	\$15,936	\$350	\$16,286	
16	\$7,344	\$350	\$7,694	16	\$15,936	\$350	\$16,286	
17	\$7,344	\$350	\$7,694	17	\$15,936	\$350	\$16,286	
18	\$7,344	\$350	\$7,694	18	\$15,936	\$350	\$16,286	
End of Equal Tuition Payment for 12.0-18.0 credit hours								
19	\$7,956	\$350	\$8,306	19	\$17,264	\$350	\$17,614	
20	\$8,568	\$350	\$8,918	20	\$18,592	\$350	\$18,942	

FACULTY

- ARMSTRONG, Vaughn S.** Associate Professor
- BAILEY, James** Professor
- CHAN, Leo** Associate Professor
- CIESLEWICZ, Joshua** Associate Professor
- COX, Vaughn** Professional in Residence
- DISHMAN, Paul** Associate Professor
- GLENN, Lowell M.** Associate Professor
- HUFF, Steven** Associate Professor
- HUFFMAN, Tammy** Associate Professor
- JENNE, Stanley E** Professor
- JOHNSON, Steven D.** Associate Professor
- MADSEN, Susan Rae** Professor
- MCARTHUR, David N.** Associate Professor
- MORTENSEN, James** Professional In Residence
- PETERSON, Jeffrey** Associate Professor
- ROBINSON, Peter B.** Professor
- ROSSI DE OLIVEIRA, Andre** Associate Professor
- SCHULTZ, Jennifer** Associate Professor
- SMITH, Kevin** Associate Professor

Course Descriptions

Accounting.....	569
Economics.....	660
Finance.....	704
Legal Studies.....	743
Business Management.....	753
Marketing.....	758

Degrees & Programs

Master of Business Administration - Accounting Emphasis, M.B.A.

Requirements

The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

The full-time track for the Master of Business Administration program at Utah Valley University is a one year, accelerated MBA program that offers either of two concentration areas in management or accounting.

The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university's designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.

The MBA program is AACSB accredited.

Total Program Credits: 36

Discipline Core Requirements:		27 Credits
ACC 6350	Accounting Strategies for Achieving Profit Goals	3
FIN 6150	Financial Management	3
ECON 6300	Managerial Economics	3
MGMT 6000	Career Development and Advancement	1.5
MGMT 6500	Managing Individuals and Groups	3
MGMT 6800	Global Business Strategy	3
MGMT 6910	Designing Business	1.5
MGMT 6930	International Engagement	1.5
MGMT 6940	MBA Consulting Project	3
MKTG 6600	Marketing Strategy (3.0)	3
MKTG 6920	Creativity and Innovative Problem Solving	1.5
Emphasis Requirements:		9 Credits
ACC 6410	Tax Research and Procedure	3
ACC 6510	Financial Auditing	3
ACC 6960	Accounting Theory and Research	3

Graduation Requirements:

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

Master of Business Administration - Accounting Emphasis, M.B.A.

Careers

Careers:
The job market will likely hold steady for 2014 MBA graduates, according to the Graduate Management Admission council. More than three-quarters of employers that plan to hire graduates expect to maintain or increase their hiring this year. They also report that projected hiring for 2014 is much improved from a few years ago. In addition, between 45 and 58 percent of employers plan to increase annual base salaries at or above the rate of inflation, an indicator that demand for talented graduates remains strong.

Related Careers

- Accountants and Auditors
- Budget Analysts
- Credit Analysts
- Financial Examiners
- Tax Examiners and Collectors, and Revenue Agents
- Business Teachers, Postsecondary

Master of Business Administration - Finance Emphasis, M.B.A.

Requirements

The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills

Business Graduate Programs

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MGMT 6940	MBA Consulting Project		3
MKTG 6600	Marketing Strategy (3.0)		3
MKTG 6920	Creativity and Innovative Problem Solving		1.5
Emphasis Requirements:			9 Credits
FIN 6130	Financial Statement Analysis and Modeling		3
FIN 6160	International Financial Management		3
FIN 6170	Investment Analysis and Portfolio Analysis		3

Graduation Requirements:

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Master of Business Administration - Finance Emphasis, M.B.A.

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Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Master of Business Administration - Management Emphasis, M.B.A.

Requirements

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MGMT 6930	International Engagement		1.5
MGMT 6940	MBA Consulting Project		3
MKTG 6600	Marketing Strategy (3.0)		3
MKTG 6920	Creativity and Innovative Problem Solving		1.5
Emphasis Requirements:			9 Credits
MKTG 6860	Applied Business Research		3
MGMT 6510	Information Systems and Project Management		3

MGMT 6740	Operations and Supply Chain Management	3
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Master of Business Administration - Marketing Emphasis, M.B.A.

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MGMT 6940	MBA Consulting Project		3
MKTG 6600	Marketing Strategy (3.0)		3
MKTG 6920	Creativity and Innovative Problem Solving		1.5
Emphasis Requirements:			9 Credits
MKTG 6620	Marketing Research and Analytics		3
MKTG 6640	Brand, Product, and Services Management		3
MKTG 6660	Marketing Channels and Communications		3

Graduation Requirements:

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Master of Business Administration - Marketing Emphasis, M.B.A.

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- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Center for Constitutional Studies

Name:	Center for Constitutional Studies
Location:	FL 305
Telephone:	801-863-5470
Email:	constitution@uvu.edu
Web Address:	uvu.edu/ccs
Director:	Rodney K. Smith

Associate Director: Andrew S. Bibby

Administrative Assistant: Kristeena Hone

The Center for Constitutional Studies is a nonpartisan, academic institute that promotes the study, instruction, and research of constitutionalism. In particular, it examines important constitutional issues found at the intersections of political thought, public policy, public law, religion, history, and economics. Employing a multidisciplinary approach, the Center seeks to more effectively equip a new generation of citizens and leaders with a broad understanding of political thought and economic and political practices critical to the perpetuation of constitutional government, ordered liberty, and the rule of law.

The Center promotes educational, scholarly, and public outreach endeavors across the state, the region, the nation, and the globe. It partners with the Political Science Program and other university entities on timely and important projects and events, and supports and promotes the Constitutional Studies minor.

Via its prestigious academic events, excellent constitutional studies course offerings, and character-building mentoring program, the Center has emerged as a leader in the fields of constitutional studies and civic leadership.

Recognized for its vision and accomplishments, the Center has hosted such prominent academicians and renowned figures as: two-time Pulitzer Prize winner, David McCullough; U.S. Court of Appeals Judge, Thomas B. Griffith; award-winning author and Harvard University Professor of Law, Noah Feldman; former Utah Governor, Michael O. Leavitt; Founding Secretary of the U.S. Department of Homeland Security, Governor Thomas Ridge; University of Pennsylvania Professor of Law and History, Sarah Barringer Gordon; and the Robert E. Scott Distinguished Professor of Law and Professor of Religious Studies at the University of Virginia, Douglas Laycock. The Center has truly emerged as a regional hub and national force for constitutional studies, driving and shaping debate on important constitutional, political, and economic issues facing the state of Utah, the Mountain West region, and the nation.

Regular public forums include Constitution Week Conferences, Religious Freedom Symposia, and many other lectures and events dealing with key political and constitutional issues.

CCS forums and events are generally free of charge.

Center for Global and Intercultural Engagement

Name:	Center for Global & Intercultural Engagement
Location:	LA 114
Telephone:	801-863-8778
Email:	cgie@uvu.edu
Web Address:	www.uvu.edu/cgie
Co-Directors:	Michelle Kearns and Fred White

- Hours: Monday - Friday 9 a.m. - 5 p.m.

The Center for Global and Intercultural Engagement (CGIE) supports the University efforts to prepare globally competent citizens. To accomplish these objectives, CGIE collaborates closely with colleges, schools, and other units across campus to create a community of students, staff, and faculty that share multicultural and international knowledge, attitudes, experiences, and efforts. We are committed to fostering an inclusive atmosphere for all students and to preparing them for an increasingly complex, diverse, and globalized society. CGIE is comprised of four programs.

1. **International & Multicultural Studies (IMS):** These programs support and facilitate international study programs, study abroad, international internships, student exchanges, travel resources, global and multicultural faculty training, cultural excursions, and student workshops. The programs include the Global Spotlight Program, mentored research programs, and other engaged learning opportunities for students. IMS also is the primary provider of facilitation, training, and support for the Global/ Intercultural Graduation Requirement. This requirement enables all UVU students to gain critical exposure to issues related to cross-cultural appreciation and understanding. IMS is also committed to inclusive teaching practices and approaches that enhance the learning of students from a variety of backgrounds and cultures.
2. **Multicultural Student Services (MSS):** Our programs provide a full range of support services targeting historically underrepresented populations with an eye toward inclusion of all students across campus. The mission is to promote educational opportunities and intercultural enrichment for diverse students and the wider campus community. Our programs aim to nurture student achievement and develop relationships that support student success, academic growth, retention, and completion of educational programs. Services include general academic advising, registration and financial aid help, student leadership programs, multicultural club advisement and support, academic and social events, and initiative programs that provide specific resources for Latino, LGBT, Native American, and Pacific Islander student populations.
3. **International Student Services (ISS):** Our programs provide advisement and support on visa, employment, and academic issues for UVU's international student population. Students with questions regarding immigration, visa, or related issues may visit one of our advisors in LA 114. ISS activities including orientations each semester for all new international students, managing the federally mandated Student and Exchange Visitor Information System (SEVIS) to ensure that all international students at UVU are legally "in status," and providing a variety of services designed to promote the academic success of our international students.
4. **International Affairs & Diplomacy (IAD):** Our office advances UVU's presence and reach in the international community through cultural exchanges, diplomatic visits, economic development partnerships, and other related activities. Programs include the hosting and connecting of international dignitaries including heads of state, ministers, ambassadors, business, educational, and religious leaders.

Center for National Security Studies

Name:	Center for National Security Studies
Location:	CB 303b
Telephone:	801-863-6891
Email:	nationalsecurity@uvu.edu
Web Address:	uvu.edu/nss
Director:	Ryan J Vogel

The UVU Center for National Security Studies (CNSS) is a nonpartisan academic institution for the instruction, analysis, and discussion of the issues related to the field of U.S. national security. The mission of the CNSS is twofold: to promote an interdisciplinary academic environment on campus that critically examines both the theoretical and practical aspects of national security policy and practice; and to assist students in preparing for public and private sector national security careers through acquisition of subject matter expertise, analytical skills, and practical experience. The CNSS partners with local, regional, national, and international public and private sector organizations to promote this mission.

As national security issues continue to dominate the policy agenda and debate in Washington, D.C. and around the globe, UVU's CNSS provides students with extensive study, discussion, and engaged learning opportunities in the national security field. UVU hosts the only national security program in the State of Utah and one of the only programs and centers in the intermountain region. The CNSS offers an active academic environment on campus for students and the community to study and engage in the critically important security challenges we face in the twenty-first century. The Center is also part of the local and national conversation about national security issues, regularly appearing on television, radio, blogs, and press outlets and contributing to academic publications and panels.

The CNSS offers a wide range of extracurricular opportunities for students, including membership in the National Security Society student club, publishing in or serving on the staff of the UVU Journal of National Security, and attending a summer program in Washington, D.C. Currently, UVU offers over 40 interesting and challenging courses in national security and related disciplines and students may earn a [Minor in National Security Studies](#) and a [Certificate of Proficiency in National Security Studies](#).

Center for the Advancement of Leadership

Name:	Center for the Advancement of Leadership
Location:	LC 302
Telephone:	801-863-6466
Email:	cal@uvu.edu
Web Address:	www.uvu.edu/leadership/
Director:	Belinda S. Han

Leadership Certification Program

The Center for the Advancement of Leadership (CAL) has designed an extra-curricular Engaged Learning University Distinction in Leadership for all students on the UVU Campus. Whether you are majoring in business, engineering, law, emergency services, biology, aviation, or any other degree or program, this Engaged Learning Distinction is designed for students who wish to advance their personal, interpersonal, organizational and/or civic leadership skills while pursuing their degrees and programs – making them more productive and marketable to their future employers and/or graduate schools.

All students are invited to preview the program by visiting our website at uvu.edu/leadership, attending our monthly Master Mind Meeting the first Monday of each month, or visiting our office in LC 302 (801-863-6466).

Leadership Certification Structure

The Engaged Learning University Distinction in Leadership focuses on four key aspects of personal development (Learn, Engage, Acquire, and Discover). Together, these four aspects ensure leadership growth concurrently in both the personal and professional arenas.

The Engaged Learning University Distinction in Leadership is a two year program.

Advisory Board:

TJ Fund, (Current Board Chair) General Counsel, OpenEdge ; Lieutenant Colonel Hank McIntire, Communications Professor, UVU; David Reeves, Imagine Learning; Kelly Johnson, Branch Manager at Bank of Utah; Ron Hinckley, President (retired) Research/Strategy/Management, Inc.; Kelly A. Clark, Higher Education; Jay Fugal, Global Operations Manager of Profire Energy Inc.; Erika Bult, English Teacher; Steve Mullins, Human Resources Senior Manager, Profire Energy Inc.; Kathy Rowe, Managing Partner, Rowe Financial Advisors; Adam Bailey, Vice President of Sales Operations, North Star; Simon Cantarero, General Counsel for Costa Vida Management, LLC; Alan Walker, CAL Student President

Center for the Study of Ethics

Name:	Center for the Study of Ethics
Location:	CB 411a
Telephone:	801-863-6455
Email:	ethics@uvu.edu
Web Address:	uvu.edu/ethics
Director:	Brian D. Birch

Director: Brian Birch

Associate Director: Nichole Ortega

Coordinator: Courtney Burns

The Center for the Study of Ethics (CSE) supports and facilitates the interdisciplinary study of ethics. This includes traditional moral philosophy and the integration of theory and practice across the disciplines and professions. Center activities include public forums, co-curricular support of faculty and student scholarship, and community engagement activities.

Because an educated citizenry is necessary for democracy, the study of interdisciplinary ethics aids individuals in moral decision-making relevant to professional, private, and public life. While CSE programming addresses a range of challenging ethical and public policy issues, the CSE is a non-advocacy center designed to promote academic achievement and community dialogue.

Regular events include Ethics Awareness Week, the Environmental Ethics Symposium, and the Faculty Summer Seminar. The CSE also hosts a variety of customized forums in response to student interest and contemporary events.

The organizational structure of the CSE is comprised of an Executive Committee and Faculty Advisory Board.

Ethics forums are free and open to the public.

Chemistry

Name:	Chemistry
Location:	PS 230
Telephone:	801-863-6295
Email:	hancocke@uvu.edu
Web Address:	www.uvu.edu/chemistry/
Chair:	Fern Caka

Mission Statement

The Chemistry Department is dedicated to providing a high quality chemistry education for the students at Utah Valley University. The department offers a wide variety of classes to support other departments and to provide excellent training leading to a Bachelor of Science in Chemistry or a Bachelor of Science in Chemistry Education. The chemistry faculty is committed to encouraging students to learn and to do research not only in their course work, but in their lifelong careers.

Chemistry

- **Department Chair:** Fern Caka
- **Telephone:** 801-863-8581
- **Email:** FernC@uvu.edu
- **Administrative Support:** Kellie D. Hancock
- **Telephone:** 801-863-6295
- **Email:** hancocke@uvu.edu

Advisors:

- Cody Peterson
- **Office:** PS 201b
- **Telephone:** 801-863-5642
- **Email:** cody.peterson@uvu.edu

Pre-Health Professions Counseling:

- **Office:** LC 402
- **Telephone:** 801-863-6484
- **Email:** prehealth@uvu.edu

Staff:

Chemical Hygiene/Safety Officer: Craig Moore
Lab Manager/Instructor, Inorganic Chemistry: Tom Strangfeld
Lab Manager/Instructor, Organic Chemistry: Bryan Cunningham
Manager, Central Stock Room: Keshar Tamrakar

Career Opportunities

Graduates with a bachelor degree in Chemistry will be prepared to work in industry or pursue a graduate degree in chemistry. Current employment opportunities for graduates in Chemistry programs are good. Additionally, the Biochemistry emphasis is an excellent degree for those preparing to attend medical school, dental school, pharmacy school or other advanced degrees in the health professions.

Graduates with a bachelor degree in Chemistry Education will be prepared to teach chemistry in junior and senior high. Current employment opportunities for graduates from Chemistry Education programs are excellent.

Programs

Students may receive:

- Bachelor of Science in Chemistry with an Emphasis in Biochemistry
- Bachelor of Science in Chemistry with an Emphasis in Forensic Chemistry
- Bachelor of Science in Chemistry with an Emphasis in Professional Chemistry
- Bachelor of Science in Chemistry Education

Admission Requirements

A student who wants to pursue a chemistry major should meet with the department chair or chemistry advisor for advisement.

DEPARTMENT CHAIR

CAKA, Fern Associate Professor

FACULTY

BOND, Calvin A. Associate Professor

CAKA, Fern Associate Professor

CHAMBERLAND, Stephen Assistant Professor

EL EZZI, Asmahan Professor

GUNAWARDENA, Gamini U. Associate Professor

HALLING, Merrill Assistant Professor

HAM, Young W. Associate Professor

HOPOATE-SITAKE, Moana Lecturer

HORN, Matthew Associate Professor

LARICHEVA, Elena Assistant Professor

ROCKS, Sally Assistant Professor

SHURTLEFF, James K. Assistant Professor

THULIN, Craig Professor

WATHEN, Mark D. Associate Professor

WHITE, Lilia Lecturer

WILSON, Bruce E. Associate Professor

YU, Ming Assistant Professor

Course Descriptions

Chemistry..... 610

Degrees & Programs

Chemistry, Minor

Requirements

Total Program Credits: 27

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		24 Credits
CHEM 1210	Principles of Chemistry I	4
CHEM 1220	Principles of Chemistry II	4
CHEM 1215	Principles of Chemistry I Laboratory	1
CHEM 1225	Principles of Chemistry II Laboratory	1
CHEM 2310	Organic Chemistry I	4
CHEM 2320	Organic Chemistry II	4
CHEM 2315	Organic Chemistry I Laboratory	1
CHEM 2325	Organic Chemistry II Laboratory	1
CHEM 3000	Analytical Chemistry	2
CHEM 3005	Analytical Chemistry Laboratory	2
Elective Requirements:		3 Credits
Any upper-division chemistry class numbered above 3000 with a minimum of 3 credit hours		3

Graduation Requirements:

Chemistry

1. Complete all courses with a minimum grade of "C-" or better.

Chemistry, Minor Careers

Related Careers

- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Chemistry - Biochemistry Emphasis, B.S.

Requirements

Biochemistry studies the chemical composition of living things. Biochemistry combines the study of biology with organic and inorganic chemistry as applied to topics such as enzymology, genetics, toxicology, pharmacology, food science, and medicine. Students with this degree may pursue graduate study or work in the field of biotechnology or in one of the many related areas or be eligible for many employment opportunities in chemistry and biology.

Total Program Credits: 124

General Education Requirements:		40 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing Humanities Social Sciences	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		3
PHIL 2050	Ethics and Values	
PHIL 205G	Ethics and Values	
PHIL 205H	Ethics and Values	
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1610	College Biology I	4
CHEM 1210	Principles of Chemistry I ¹	4
CHEM 1220	Principles of Chemistry II ²	4
Fine Arts		3
Complete one of the following sets of distribution courses, dependant on your choice of emphasis: 6.0 for the Professional Chemistry or Biochemistry Emphases:		6
For the Professional Chemistry or Biochemistry Emphases:		
Humanities		
Social/Behavioral Science		
For the Forensic Chemistry Emphasis:		
COMM 1020	Public Speaking (3.0)	
CJ 1010	Introduction to Criminal Justice (3.0)	

Discipline Core Requirements:		49 Credits
CHEM 1215	Principles of Chemistry I Laboratory ³	1
CHEM 1225	Principles of Chemistry II Laboratory ⁴	1
CHEM 2310	Organic Chemistry I	4
CHEM 2315	Organic Chemistry I Laboratory	1
CHEM 2320	Organic Chemistry II	4
CHEM 2325	Organic Chemistry II Laboratory	1
CHEM 3000	Analytical Chemistry	2
CHEM 3005	Analytical Chemistry Laboratory	2
CHEM 3600	Biological Chemistry	3
CHEM 3605	Biochemistry Laboratory	1
CHEM 4000	Instrumental Analysis	2
CHEM 4005	Instrumental Analysis Laboratory	2
CHEM 4920	Chemistry Capstone I	1
CHEM 4930	Chemistry Capstone II	1
CHEM 4940	Chemistry Capstone III	1
CHEM 4950	Chemistry Capstone IV	2
CHEM 489R	Undergraduate Research in Chemistry	2
CHEM 489R	Undergraduate Research in Chemistry	2
CHEM 489R	Undergraduate Research in Chemistry	2
MATH 1220	Calculus II	5
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2225	Physics for Scientists and Engineers II Lab	1
Emphasis Requirements:		21 Credits
BIOL 1615	College Biology I Laboratory	1
BIOL 1620	College Biology II	3
BIOL 1625	College Biology II Laboratory	1
BIOL 3400	Cell Biology	3
BIOL 3405	Cell Biology Laboratory	1
CHEM 3060	Physical Chemistry I	4
CHEM 3065	Physical Chemistry Laboratory	1
CHEM 3100	Advanced Inorganic Chemistry	4
CHEM 3620	Biological Chemistry II	3
Emphasis Elective Requirements:		14 Credits
Complete a minimum of 6 credits from the following:		6
CHEM 4030	Radiochemistry (3.0)	
CHEM 4600	Structure Determination (2.0)	
CHEM 4605	Structure Determination Laboratory (1.0)	
CHEM 4800	Pharmacology (3.0)	
CHEM 495R	Advanced Topics in Organic Chemistry (3.0)	
CHEM 496R	Special Topics in Chemistry (1.0)	
CHEM 499R	Independent Study and Research (1.0)	
A minimum of 8 credits from the following:		8
BIOL 3300	Developmental Biology (3.0)	

	BIOL 3500	Genetics (3.0)
	BIOL 3515	Advanced Genetics Laboratory (1.0)
	BIOL 3550	Molecular Biology (3.0)
	BIOL 4300	Bioinformatics and Genome Analysis (4.0)
	BIOL 4450	Immunology (3.0)
	BIOL 4455	Immunology Laboratory (1.0)
	BIOL 4550	Molecular Evolution and Bioinformatics (3.0)
	MICR 3450	General Microbiology (3.0)
	MICR 3455	General Microbiology Laboratory (1.0)
	ZOOL 2320	Human Anatomy (3.0)
and	ZOOL 2325	Human Anatomy Laboratory (1.0)
	ZOOL 2420	Human Physiology (3.0)
and	ZOOL 2425	Human Physiology Laboratory (1.0)
	ZOOL 4300	Histology (4.0)
	ZOOL 4700	Advanced Anatomy (4.0)
	ZOOL 4780	Neuroscience (4.0)

Graduation Requirements:

1. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 54 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 28 chemistry credits must be upper-division.
6. Complete all chemistry and physics courses with a minimum grade of "C-" or better.
7. Successful completion of at least one Global/Intercultural course.

Footnote:	
1-To be taken with	CHEM 1215 Principles of Chemistry I Laboratory
2-To be taken with	CHEM 1225 Principles of Chemistry II Laboratory
3-To be taken with	CHEM 1210 Principles of Chemistry I
4-To be taken with	CHEM 1220 Principles of Chemistry II

Chemistry - Biochemistry Emphasis, B.S. Careers**Related Careers**

- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Chemistry - Forensic Chemistry Emphasis, B.S.**Requirements**

The Forensic Chemistry emphasis prepares a student for work in a forensic laboratory. A forensic chemist is a professional chemist who analyzes evidence that is brought in from crime scenes and reaches a conclusion based on tests run on that piece of evidence. Classes deal with fingerprint and bloodstain pattern analysis, chemical trace analysis, impression evidence, etc. as well as criminal law.

In obtaining this degree, students will learn how to:
Use modern scientific instruments and interpret results

Apply principles used in chemistry to solve everyday problems
Think analytically
Use problem solving skills
Categorize information
Apply learned math skills
Develop laboratory skills

Total Program Credits: 124

General Education Requirements:		40 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Science and Technology	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
or PHIL 205G	Ethics and Values (3.0)	
or PHIL 205H	Ethics and Values (3.0)	
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life	
Distribution Courses:		
BIOL 1610	College Biology I	4
CHEM 1210	Principles of Chemistry I ¹	4
CHEM 1220	Principles of Chemistry II ²	4
Fine Arts		3
Complete one of the following sets of distribution courses, dependant on your choice of emphasis: 6.0 For the Professional Chemistry or Biochemistry Emphases:		6
For the Professional Chemistry or Biochemistry Emphases:		
Humanities		
Social/Behavioral Science		
For the Forensic Chemistry Emphasis:		
COMM 1020	Public Speaking (3.0)	
CJ 1010	Introduction to Criminal Justice (3.0)	
Discipline Core Requirements:		49 Credits
CHEM 1215	Principles of Chemistry I Laboratory ³	1
CHEM 1225	Principles of Chemistry II Laboratory ⁴	1
CHEM 2310	Organic Chemistry I	4
CHEM 2315	Organic Chemistry I Laboratory	1
CHEM 2320	Organic Chemistry II	4
CHEM 2325	Organic Chemistry II Laboratory	1
CHEM 3000	Analytical Chemistry	2
CHEM 3005	Analytical Chemistry Laboratory	2
CHEM 3600	Biological Chemistry	3

Chemistry

CHEM 3605	Biochemistry Laboratory	1
CHEM 4000	Instrumental Analysis	2
CHEM 4005	Instrumental Analysis Laboratory	2
CHEM 4920	Chemistry Capstone I	1
CHEM 4930	Chemistry Capstone II	1
CHEM 4940	Chemistry Capstone III	1
CHEM 4950	Chemistry Capstone IV	1
CHEM 489R	Undergraduate Research in Chemistry	2
CHEM 489R	Undergraduate Research in Chemistry	2
CHEM 489R	Undergraduate Research in Chemistry	2
MATH 1220	Calculus II	5
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2225	Physics for Scientists and Engineers II Lab	1
Emphasis Requirements:		31 Credits
BIOL 1615	College Biology I Laboratory	1
CHEM 3060	Physical Chemistry I	4
CHEM 3065	Physical Chemistry Laboratory	1
CHEM 3700	Forensic Analytical Chemistry	3
STAT 2040	Principles of Statistics	4
Forensic Requirements:		
CJ 1330	Criminal Law	3
CJ 1340	Criminal Investigations	3
CJ 1350	Introduction to Forensic Science	3
CJ 2350	Laws of Evidence	3
FSCI 3880	Expert Witness Professional Practices	3
Complete one of the following:		3
CHEM 482R	Chemistry Internship (3.0) (Strongly recommended)	
CHEM 3100	Advanced Inorganic Chemistry (4.0)	
CHEM 3020	Environmental Chemistry (3.0)	
CHEM 4030	Radiochemistry (3.0)	
CHEM 4600	Structure Determination (3.0)	
CHEM 4605	Structure Determination Laboratory (1.0)	
CHEM 496R	Special Topics in Chemistry (3.0)	
CHEM 495R	Advanced Topics in Organic Chemistry (3.0)	
CHEM 499R	Independent Study and Research (1.0)	
Emphasis Elective Requirements:		4 Credits
Complete 4 credits from the following recommended courses:		4
BIOL 3400	Cell Biology (3.0)	
BIOL 3405	Cell Biology Laboratory (1.0)	
BIOL 3500	Genetics (3.0)	
BIOL 3515	Advanced Genetics Laboratory (1.0)	
BIOL 3550	Molecular Biology (3.0)	
FSCI 3400	Criminalistics (3.0)	
FSCI 3500	Footwear and Tire Mark Evidence and Examination (3.0)	

FSCI 3540	Forensic Trace Analysis I (3.0)	
FSCI 3550	Forensic Trace Analysis II (3.0)	
FSCI 3700	Fingerprint Processing (3.0)	
FSCI 3720	Fingerprint Examination (3.0)	
FSCI 3780	Bloodstain Pattern Analysis (3.0)	
FSCI 3800	Computer Forensics and Cyber Crime (3.0)	
FSCI 3820	Crime Scene Investigation Techniques I (3.0)	
FSCI 3850	Marijuana Identification Certificate (3.0)	
FSCI 3860	Forensic Microscopy (3.0)	
MICR 2060	Microbiology for Health Professions (3.0)	
MICR 2065	Microbiology for Health Professions Laboratory (1.0)	
MICR 3450	General Microbiology (3.0)	
MICR 3455	General Microbiology Laboratory (1.0)	
ZOOL 2320	Human Anatomy (3.0)	
ZOOL 2325	Human Anatomy Laboratory (1.0)	
ZOOL 2420	Human Physiology (3.0)	
ZOOL 2425	Human Physiology Laboratory (1.0)	
Or other Courses in consultation with the Department Academic Advisor		

Graduation Requirements:

1. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 54 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 28 chemistry credits must be upper-division.
6. Complete all chemistry and physics courses with a minimum grade of "C-" or better.
7. Successful completion of at least one Global/Intercultural course.

Footnote:

1 To be taken with CHEM 1215 Principles of Chemistry I Laboratory	
2 To be taken with CHEM 1225 Principles of Chemistry II Laboratory	
3 To be taken with CHEM 1210 Principles of Chemistry I	
4 To be taken with CHEM 1220 Principles of Chemistry II	

Chemistry - Forensic Chemistry Emphasis, B.S. Careers

Related Careers

- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Chemistry - Professional Chemistry Emphasis, B.S.

Requirements

This bachelor's degree in professional chemistry prepares a student for employment as a chemist. It also prepares a student for further study in a graduate degree or professional program. This degree is designed to meet American Chemical standards for a bachelor degree. Job opportunities for students with this degree are very good. Students with this degree can have careers in test laboratories, government laboratories, hospital laboratories, research and development, quality control, manufacturing, and many other areas.

In obtaining this degree, students will learn how to:
 Use modern scientific instruments and interpret results
 Apply principles used in chemistry to solve everyday problems
 Think analytically
 Use problem solving skills
 Categorize information
 Apply learned math skills
 Develop laboratory skills

Total Program Credits: 121

General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Science and Technology	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1610	College Biology I	4
CHEM 1210	Principles of Chemistry I ¹	4
CHEM 1220	Principles of Chemistry II ²	4
Fine Arts		3
Complete one of the following sets of distribution courses, dependant on your choice of emphasis: 6.0 For the Professional Chemistry or Biochemistry Emphases:		6
For the Professional Chemistry or Biochemistry Emphases:		
Humanities		
Social/Behavioral Science		
For the Forensic Chemistry Emphases:		
COMM 1020	Public Speaking (3.0)	
CJ 1010	Introduction to Criminal Justice (3.0)	
Discipline Core Requirements:		49 Credits
CHEM 1215	Principles of Chemistry I Laboratory ³	1

CHEM 1225	Principles of Chemistry II Laboratory ⁴	1
CHEM 2310	Organic Chemistry I	4
CHEM 2315	Organic Chemistry I Laboratory	1
CHEM 2320	Organic Chemistry II	4
CHEM 2325	Organic Chemistry II Laboratory	1
CHEM 3000	Analytical Chemistry	2
CHEM 3005	Analytical Chemistry Laboratory	2
CHEM 3600	Biological Chemistry	3
CHEM 3605	Biochemistry Laboratory	1
CHEM 4000	Instrumental Analysis	2
CHEM 4005	Instrumental Analysis Laboratory	2
CHEM 4920	Chemistry Capstone I	1
CHEM 4930	Chemistry Capstone II	1
CHEM 4940	Chemistry Capstone III	1
CHEM 4950	Chemistry Capstone IV	1
CHEM 489R	Undergraduate Research in Chemistry	2
CHEM 489R	Undergraduate Research in Chemistry	2
CHEM 489R	Undergraduate Research in Chemistry	2
MATH 1220	Calculus II	5
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2225	Physics for Scientists and Engineers II Lab	1
Emphasis Requirements:		35 Credits
CHEM 3060	Physical Chemistry I	4
CHEM 3065	Physical Chemistry Laboratory	1
CHEM 3070	Physical Chemistry II	4
CHEM 3100	Advanced Inorganic Chemistry	4
CHEM 3115	Physical and Inorganic Chemistry Laboratory	1
MATH 2210	Calculus III	3
MATH 2280	Ordinary Differential Equations	3
PHYS 3300	Mathematical Physics	3
Complete 12 credits of upper-division CHEM courses from the following:		12
CHEM 3020	Environmental Chemistry (3.0)	
CHEM 3080	Statistical Mechanics and Chemical Kinetics (3.0)	
CHEM 3620	Biological Chemistry II (3.0)	
CHEM 4030	Radiochemistry (3.0)	
CHEM 4600	Structure Determination (1.0)	
CHEM 4605	Structure Determination Laboratory (3.0)	
CHEM 4800	Pharmacology (3.0)	
CHEM 495R	Advanced Topics in Organic Chemistry (3.0)	
CHEM 496R	Special Topics in Chemistry (3.0)	
CHEM 499R	Independent Study and Research (1.0)	

Graduation Requirements:

Chemistry

1. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 (C) or above with a minimum of 2.25 in Major.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 54 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 28 chemistry credits must be upper-division.
6. Complete all chemistry and physics courses with a minimum grade of "C-" or better.
7. Successful completion of at least one Global/Intercultural course.

Footnote:	
1 To be taken with CHEM 1215 Principles of Chemistry I Laboratory	
2 To be taken with CHEM 1225 Principles of Chemistry II Laboratory	
3 To be taken with CHEM 1210 Principles of Chemistry I	
4 To be taken with CHEM 1220 Principles of Chemistry II	

Chemistry - Professional Chemistry Emphasis, B.S. Careers

Related Careers

- Natural Sciences Managers
- Chemists
- Chemistry Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Chemistry Education, B.S.

Requirements

The degree in chemistry education prepares a student to teach chemistry in secondary education. Students that complete this degree receive endorsements to teach chemistry. Completion of this program is dependent upon being accepted into the Secondary Education program through the School of Education. There is a great demand for teachers in chemistry and employment opportunities are excellent.

In obtaining this degree, students will learn how to:

- Use modern scientific instruments and interpret results
- Apply principles used in chemistry to solve everyday problems
- Think analytically
- Use problem solving skills
- Categorize information
- Apply learned math skills
- Develop laboratory skills

Total Program Credits: 122

Matriculation Requirements:	
1. Students are admitted directly to the Baccalaureate degree program in Chemistry Education upon acceptance to the Secondary Education Program.	
2. Students must obtain the departmental Advisor's signature on an approved program plan prior to enrollment in their second semester of study.	
Secondary Education Requirements:	
1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.	
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.	
3. Completion of all General Education requirements and the majority of content area courses.	
4. Pass LiveScan Criminal Background Check.	
General Education Requirements:	39 Credits

ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing Humanities Social Sciences	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
CHEM 1210	Principles of Chemistry I ¹	4
CHEM 1220	Principles of Chemistry II ²	4
Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		83 Credits
Chemistry Discipline Core Courses:		
CHEM 1215	Principles of Chemistry I Laboratory ³	1
CHEM 1225	Principles of Chemistry II Laboratory ⁴	1
CHEM 2310	Organic Chemistry I	4
CHEM 2320	Organic Chemistry II	4
CHEM 2315	Organic Chemistry I Laboratory	1
CHEM 2325	Organic Chemistry II Laboratory	1
CHEM 3000	Analytical Chemistry	2
CHEM 3005	Analytical Chemistry Laboratory	2
CHEM 3060	Physical Chemistry I	4
CHEM 3065	Physical Chemistry Laboratory	1
CHEM 3100	Advanced Inorganic Chemistry	4
CHEM 4200	Teaching Methods in Science	3
CHEM 4920	Chemistry Capstone I	1
MATH 1220	Calculus II	5
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
CHEM 3600	Biological Chemistry	3
CHEM 4000	Instrumental Analysis	2
CHEM 4005	Instrumental Analysis Laboratory	2
Education Discipline Core Courses:		

EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
EDSP 3400	Exceptional Students	2

Graduation Requirements:

1. Completion of a minimum of 124 semester credits with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 52 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 24 chemistry and physics credits must be upper-division.
6. Successful completion of at least one Global/Intercultural course.

Footnote:

1-To be taken with [CHEM 1215](#) Principles of Chemistry I Laboratory

2-To be taken with [CHEM 1225](#) Principles of Chemistry II Laboratory

3-To be taken with [CHEM 1210](#) Principles of Chemistry I

4-To be taken with [CHEM 1220](#) Principles of Chemistry II

**Chemistry Education, B.S.
Careers****Related Careers**

- Chemistry Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Communication

Name:	Communication
Location:	CB 502A
Telephone:	801-863-8452
Email:	Kristen.Smith@uvu.edu
Web Address:	uvu.edu/comm
Chair:	David Morin

Mission Statement

The Utah Valley University Communication Department is shaping students to become the next top leaders in Journalism, Public Relations and Communication Studies through courses and engaged-learning experiences that are theoretically driven, innovative, and applied. The department prepares students with the necessary skills to communicate visually, orally and through written documentation within the context demanded by the business, journalism, marketing, and public relations world. Students are also equipped with a solid ethical foundation and an understanding of diversity, interdependence, and cultural perspectives in the global community.

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

Encouraging student internships, and working closely with Student Media and other units on campus, the curriculum balances traditional, academic-style learning with applied, practical approaches to study in the field.

Journalism

- **Coordinator:** David W. Scott
- **Email:** scottdw@uvu.edu
- **Advisor:** L. Gae Robinson
- **Telephone:** 801-863-6403
- **Email:** leslie.robinson@uvu.edu

Notes:

1. Please contact Cassi Christensen at 801-863-5717 to make an appointment to meet with Gae Robinson.
2. Communication students in the journalism emphasis are required to have laptop computers.

Public Relations

- **Coordinator:** David Morin
- **Email:** Hank.McIntire@uvu.edu
- **Advisor:** Natalie Shelley
- **Telephone:** 801-863-7068
- **Email:** natalie.shelley@uvu.edu

Notes: Please contact Cassi Christensen at 801-863-5717 to make an appointment to meet with Natalie Shelley.

Communication Studies

- **Coordinator:** Maria Blevins
- **Email:** Maria.Blevins@uvu.edu
- **Advisor:** L. Gae Robinson
- **Telephone:** 801-863-6403

- **Email:** leslie.robinson@uvu.edu

Notes: Please contact Cassi Christensen at 801-863-5717 to make an appointment to meet with Gae Robinson.

DEPARTMENT CHAIR

MORIN, David T. *Assistant Professor*

FACULTY

ALLEN, Jordan *Assistant Professor*

BLEVINS, Maria *Assistant Professor*

FISHER, James *Lecturer*

GORDON, Philip *Associate Professor*

HANSON, Kimberly *Lecturer*

LIANG, Jingdong *Associate Professor*

MCINTIRE, Hank *Assistant Professor*

MORIN, David T. *Assistant Professor*

MUNZ, Stevie M. *Assistant Professor*

PATTERSON, Spencer *Assistant Professor*

PAULY, Jessica A. *Assistant Professor*

SANDERS, Farah *Lecturer*

SCOTT, David W. *Professor*

Course Descriptions

Communication..... 622

Degrees & Programs

Communication, A.A.

Requirements

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors)	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3

	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	COMM 2110	Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:			16 Credits
	COMM 1000	Exploring the Communication Major	3
	COMM 1020	Public Speaking (3.0)	
or	COMM 1130	Writing for the Mass Media	3
	COMM 1050	Introduction to Speech Communication (3.0)	
or	COMM 1500	Introduction to Mass Communication	3
	COMM 2300	Public Relations	3
	DGM 1110	Digital Media Essentials I	4
Elective Requirements:			9 Credits
	Complete 8 credit hours of one foreign language.		8
	Any 1000-level COMM course or higher not already taken.		1

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.
6. Completion of COMM courses with a C- or higher.

Communication, A.A.

Careers

Careers:
Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication, A.S.

Requirements

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors)	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	COMM 2110	Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:			25 Credits
	COMM 1000	Exploring the Communication Major	3
	COMM 1020	Public Speaking (3.0)	
or	COMM 1130	Writing for the Mass Media	3
	COMM 1500	Introduction to Mass Communication (3.0)	
or	COMM 1050	Introduction to Speech Communication	3
	COMM 2300	Public Relations	3
	DGM 1110	Digital Media Essentials I	4
Complete nine credits from the following:			9
Journalism			
	COMM 2100	The News Editing Process (3.0)	
	COMM 2250	Principles of Advertising (3.0)	

Communication

COMM 2510	Visual Strategies for Communication Majors (3.0)	
COMM 2560	Radio Production (3.0)	
COMM 2790	Magazine Writing (3.0)	
COMM 281R	Internship (1.0)	
ART 1400	Graphic Computer Applications (3.0)	
ENGL 2050	Editing (3.0)	
DGM 2120	Web Essentials (3.0)	
Public Relations/Speech Communication:		
COMM 128R	Forensics (3.0)	
COMM 2115	Introduction to Health Communication (3.0)	
COMM 2120	Small Group Communication and Decision Making (3.0)	
COMM 2400	Organizational Communication (3.0)	
COMM 2270	Argumentation (3.0)	
COMM 281R	Internship (1.0)	
Or other courses as approved		

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Completion of COMM courses with a C- or higher.

Communication, A.S.

Careers

Careers:
Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication, Minor

Requirements

Programs of study in Communication at UVU offer a balance of analytic and applied approaches to study in the field. The department offers an expanding menu of beginning and advanced courses in mass communication, public relations, media studies, interpersonal communication, intercultural communication, international communication, organizational communication, and journalism.

Total Program Credits: 21

Discipline Core Requirements:		21 Credits
COMM 1020	Public Speaking	3
Choose two of the following:		6
COMM 1050	Introduction to Speech Communication (3.0)	
COMM 1130	Writing for the Mass Media (3.0)	
COMM 1500	Introduction to Mass Communication (3.0)	
COMM 2300	Public Relations (3.0)	
Complete twelve credits from the following:		12
COMM 3000	Media Ethics (3.0)	
COMM 3050	Theories of Communication and Culture (3.0)	
COMM 3100	Propaganda and Persuasion (3.0)	
COMM 319G	Intercultural Communication Encounters (3.0)	
COMM 3420	Communication and Conflict (3.0)	
COMM 350R	Special Topics in Communication (3.0)	
COMM 3700	Free Expression in a Democratic Society (3.0)	
COMM 481R	Internship (May be repeated for 3.0 credits) (1.0)	
Any other advisor approved courses.		

Graduation Requirements:

1. Completion of a minimum of 21 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Complete all communication classes with a C- or better

Communication, Minor

Careers

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Communication Studies Emphasis, B.A.

Requirements

Speech Communication is the study of how we communicate face-to-face in a variety of situations. Students in this field are interested in the dynamics of conversations, the common pitfalls and how to avoid them, and how to make the most out of human interaction. Speech Communication practitioners feel confident in interpersonal exchanges, public speaking, small-group discussion, and specialized fields like argumentation and/or mediation and negotiation. Every industry needs people that can communicate effectively. Graduates often find use for their skills in professions like sales, corporate training and development, human resources, and various social services. Many students choose Speech Communication as a bachelor's degree program that will prepare them for law school and other graduate school work. For their upper division elective coursework, Speech Communication students are encouraged

to take classes in Business Management and/or Behavioral Science (Psychology, Sociology, etc.).

Total Program Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
	STAT 1040	Introduction to Statistics	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities (Any Foreign Language 202G/2020 course)		4
	Fine Arts		3
	COMM 2110	Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:		22 Credits	
	COMM 1500	Introduction to Mass Communication	3
	COMM 2300	Public Relations	3
	COMM 3020	Communication Research Methods	3
	COMM 3050	Theories of Communication and Culture	3
	COMM 4930	Communication Capstone	3
	COMM 431R	Communication Executive Lecture Series	1
Choose one of the following two courses:		3	
	COMM 1020	Public Speaking (3.0)	
	COMM 1130	Writing for the Mass Media (3.0)	
Choose one of the following two courses:		3	
	COMM 3000	Media Ethics (3.0)	
	COMM 3700	Free Expression in a Democratic Society (3.0)	
Elective Requirements:		12 Credits	
	Complete 12 credits from one foreign language to include the 1010, 1020, and 2010 levels.	12	
Emphasis Requirements:		30 Credits	
	COMM 319G	Intercultural Communication Encounters	3

Choose three of the followings:		9	
	COMM 2120	Small Group Communication and Decision Making (3.0)	
	COMM 2400	Organizational Communication (3.0)	
	COMM 2115	Introduction to Health Communication (3.0)	
	COMM 3115	Communicating in Environments (3.0)	
Choose one of the following research classes:		3	
	COMM 4110	Interpersonal Communication Theory & Research (3.0)	
	COMM 4120	Group Communication (3.0)	
	COMM 4180	Communication and Social Behavior (3.0)	
Choose one of the following applied courses:		3	
	COMM 401G	Communication Education (3.0)	
	COMM 4115	Advanced Health Communication (3.0)	
	COMM 4170	Contemporary Issues in Organizational Communication (3.0)	
Choose 3 credits from the following lower division electives:		3	
	COMM 128R	Forensics (3.0)	
	COMM 207G	Introduction to Gender and Communication (3.0)	
	COMM 2115	Introduction to Health Communication (If not already taken) (3.0)	
	COMM 2120	Small Group Communication and Decision Making (If not already taken) (3.0)	
	COMM 2270	Argumentation (3.0)	
	COMM 2400	Organizational Communication (If not already taken) (3.0)	
	COMM 2510	Visual Strategies for Communication Majors (3.0)	
	COMM 281R	Internship (1.0)	
	COMM 290C	Independent Study (3.0)	
Choose 9 credits from the following upper division communication courses:		9	
	COMM 3000	Media Ethics (3.0)	
	COMM 3115	Communicating in Environments (If not already used above) (3.0)	
	COMM 3120	Fundamentals of New and Social Media (3.0)	
	COMM 3140	Social Media Content Creation (3.0)	
	COMM 3160	Social Media Analytics (3.0)	
	COMM 332G	Cross-Cultural Communications for International Business (3.0)	
	COMM 3410	Fundamentals of Mediation and Negotiation (3.0)	
	COMM 3420	Communication and Conflict (3.0)	
	COMM 350R	Special Topics in Communication (3.0)	
	COMM 3700	Free Expression in a Democratic Society (3.0)	
	COMM 3780	Mormon Cultural Studies (3.0)	
	COMM 401G	Communication Education (If not used for applied requirement) (3.0)	
	COMM 4110	Interpersonal Communication Theory & Research (If not used for research requirement) (3.0)	

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COMM 4115	Advanced Health Communication (If not used for applied requirement) (3.0)	
COMM 4120	Group Communication (If not used for research requirement) (3.0)	
COMM 4170	Contemporary Issues in Organizational Communication (If not used for applied requirement) (3.0)	
COMM 4180	Communication and Social Behavior (If not used for research requirement) (3.0)	
COMM 4250	Communication and Leadership (3.0)	
COMM 481R	Internship (1.0)	
Emphasis Elective Requirements:		20 Credits
Complete 20 credits of COMM or Non-COMM courses (10 credits must be upper division).		20

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Completion of COMM courses with a C- or higher.
7. Successful completion of at least one Global/Intercultural course.

Communication - Communication Studies Emphasis, B.A.

Careers

Careers:
Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Communication Studies Emphasis, B.S.

Requirements

Speech Communication is the study of how we communicate face-to-face in a variety of situations. Students in this field are interested in the dynamics of conversations, the common pitfalls and how to avoid them, and how to make the most out of human interaction. Speech Communication practitioners feel confident in interpersonal exchanges, public speaking, small-group discussion, and specialized fields like argumentation and/or mediation and negotiation. Every industry needs people that can communicate effectively. Graduates often find use for their skills in professions like sales, corporate training and development, human resources, and various social services. Many students choose Speech Communication as a bachelor's degree program that will prepare them for law school and other graduate school work. For their

upper division elective coursework, Speech Communication students are encouraged to take classes in Business Management and/or Behavioral Science (Psychology, Sociology, etc.).

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or ENGL 2020	Intermediate Writing--Science and Technology	3
STAT 1040	Introduction to Statistics (recommended for Social Science majors)	3
or STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities		3
Fine Arts		3
COMM 2110	Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:		22 Credits
COMM 1500	Introduction to Mass Communication	3
COMM 2300	Public Relations	3
COMM 3020	Communication Research Methods	3
COMM 3050	Theories of Communication and Culture	3
COMM 4930	Communication Capstone	3
COMM 431R	Communication Executive Lecture Series	1
Choose one of the following two courses:		3
COMM 1020	Public Speaking (3.0)	
COMM 1130	Writing for the Mass Media (3.0)	
Choose one of the following two courses:		3
COMM 3000	Media Ethics (3.0)	
COMM 3700	Free Expression in a Democratic Society (3.0)	
Elective Requirements:		13 Credits
Complete 13 credits of electives 1000 level or higher		13
Emphasis Requirements:		30 Credits
COMM 319G	Intercultural Communication Encounters	3

Choose three of the following:		9
COMM 2115	Introduction to Health Communication (3.0)	
COMM 2120	Small Group Communication and Decision Making (3.0)	
COMM 2400	Organizational Communication (3.0)	
COMM 3115	Communicating in Environments (3.0)	
Choose one of the following research classes:		3
COMM 4110	Interpersonal Communication Theory & Research (3.0)	
COMM 4120	Group Communication (3.0)	
COMM 4180	Communication and Social Behavior (3.0)	
Choose one of the following applied courses:		3
COMM 401G	Communication Education (3.0)	
COMM 4115	Advanced Health Communication (3.0)	
COMM 4170	Contemporary Issues in Organizational Communication (3.0)	
Choose 3 credits from the following lower division electives:		3
COMM 128R	Forensics (3.0)	
COMM 1050	Introduction to Speech Communication (3.0)	
COMM 207G	Introduction to Gender and Communication (3.0)	
COMM 2115	Introduction to Health Communication (If not already taken) (3.0)	
COMM 2120	Small Group Communication and Decision Making (If not already taken) (3.0)	
COMM 2270	Argumentation (3.0)	
COMM 2400	Organizational Communication (If not already taken) (3.0)	
COMM 2510	Visual Strategies for Communication Majors (3.0)	
COMM 281R	Internship (1.0)	
COMM 290C	Independent Study (3.0)	
Choose 9 credits from the following upper division communication courses:		9
COMM 3000	Media Ethics (3.0)	
COMM 3115	Communicating in Environments (If not already used above) (3.0)	
COMM 3120	Fundamentals of New and Social Media (3.0)	
COMM 3140	Social Media Content Creation (3.0)	
COMM 3160	Social Media Analytics (3.0)	
COMM 332G	Cross-Cultural Communications for International Business (3.0)	
COMM 3410	Fundamentals of Mediation and Negotiation (3.0)	
COMM 3420	Communication and Conflict (3.0)	
COMM 350R	Special Topics in Communication (3.0)	
COMM 3700	Free Expression in a Democratic Society (3.0)	
COMM 3780	Mormon Cultural Studies (3.0)	
COMM 401G	Communication Education (If not used for applied requirement) (3.0)	

COMM 4110	Interpersonal Communication Theory & Research (If not used for research requirement) (3.0)	
COMM 4115	Advanced Health Communication (If not used for applied requirement) (3.0)	
COMM 4120	Group Communication (If not used for research requirement) (3.0)	
COMM 4170	Contemporary Issues in Organizational Communication (If not used for applied requirement) (3.0)	
COMM 4180	Communication and Social Behavior (If not used for research requirement) (3.0)	
COMM 4250	Communication and Leadership (3.0)	
COMM 481R	Internship (1.0)	
Emphasis Elective Requirements:		20 Credits
Complete 20 credits of COMM or Non-COMM courses (10 credits must be upper division). A MINOR in another discipline is highly recommended.		20

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of COMM courses with a C- or higher.
6. Successful completion of at least one Global/Intercultural course.

Communication - Communication Studies Emphasis, B.S.

Careers

Careers:
Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Journalism Emphasis, B.A.

Requirements

Students choosing a Communication degree with an emphasis in Journalism will have the opportunity to work with award-winning faculty and gain substantial amounts of hands-on experience. The program encourages students to get involved with The UVU Review, the student-produced campus news organization. The Review is an excellent way to build skills in print, broadcast, and web journalism. Course options for Journalism students range from introductory writing and reporting classes to advanced magazine writing, news editing, broadcast news, and long format video journalism. Students interested in a degree in Communication with an emphasis in Journalism should look at degree requirements and start planning for future semesters. Journalism students are

Communication

encouraged to look into elective credits in the Digital Media Department, as a way to broaden their skills in modern storytelling.

Total Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
	STAT 1040	Introduction to Statistics	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities (Any Foreign Language 202G/2020 course)		4
	Fine Arts		3
	COMM 2110	Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:		22 Credits	
	COMM 1500	Introduction to Mass Communication	3
	COMM 2300	Public Relations	3
	COMM 3020	Communication Research Methods	3
	COMM 3050	Theories of Communication and Culture	3
	COMM 4930	Communication Capstone	3
	COMM 431R	Communication Executive Lecture Series	1
Choose one of the following two courses:		3	
	COMM 1020	Public Speaking (3.0)	
	COMM 1130	Writing for the Mass Media (3.0)	
Choose one of the following two courses:		3	
	COMM 3000	Media Ethics (3.0)	
	COMM 3700	Free Expression in a Democratic Society (3.0)	
Elective Requirements:		12 Credits	
	Complete 12 credits from one foreign language to include the 1010, 1020, and 2010 levels.		12
Emphasis Requirements:		27 Credits	
	COMM 1610	Reporting for the Mass Media	3

	COMM 3100	Propaganda and Persuasion	3
	COMM 481R	Internship (1.0)	3
	COMM 3790	Case Studies in Journalism	3
	COMM 3000	Media Ethics (3.0)	3
or	COMM 3700	Free Expression in a Democratic Society (3.0)	
Complete 6 credits from the following Media and Practice courses:		6	
	COMM 2790	Magazine Writing (3.0)	
	COMM 2100	The News Editing Process (3.0)	
	COMM 2560	Radio Production (3.0)	
	COMM 2250	Principles of Advertising (3.0)	
	COMM 2510	Visual Strategies for Communication Majors (3.0)	
Complete 6 credits from the following Applied Theory and Research courses:		6	
	COMM 3150	Film Theory (3.0)	
	COMM 362G	International Communication (3.0)	
	COMM 3660	Investigative Reporting (3.0)	
	COMM 3780	Mormon Cultural Studies (3.0)	
Emphasis Elective Requirements:		23 Credits	
Complete 6 credits from the following:		6	
	COMM 3130	The Culture of Nature and Technology (3.0)	
	COMM 3150	Film Theory (3.0)	
	COMM 319G	Intercultural Communication Encounters (3.0)	
	COMM 332G	Cross-Cultural Communications for International Business (3.0)	
	COMM 350R	Special Topics in Communication (3.0)	
	COMM 3520	Public Relations Case Studies (3.0)	
	COMM 3530	Public Relations Writing (3.0)	
	COMM 3660	Investigative Reporting (3.0)	
	COMM 3680	Advertising Media Planning (3.0)	
	COMM 3780	Mormon Cultural Studies (3.0)	
	Any courses 1000 or higher (10 credits must be upper division).		17

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Completion of COMM courses with a C- or higher.
7. Successful completion of at least one Global/Intercultural course.

Communication - Journalism Emphasis, B.A. Careers

Careers:

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are

expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Journalism Emphasis, B.S.

Requirements

Students choosing a Communication degree with an emphasis in Journalism will have the opportunity to work with award-winning faculty and gain substantial amounts of hands-on experience. The program encourages students to get involved with The UVU Review, the student-produced campus news organization. The Review is an excellent way to build skills in print, broadcast, and web journalism. Course options for Journalism students range from introductory writing and reporting classes to advanced magazine writing, news editing, broadcast news, and long format video journalism. Students interested in a degree in Communication with an emphasis in Journalism should look at degree requirements and start planning for future semesters. Journalism students are encouraged to look into elective credits in the Digital Media Department, as a way to broaden their skills in modern storytelling.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
	STAT 1040	Introduction to Statistics (recommended for Social Science majors)	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	Fine Arts		3
	COMM 2110	Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:		22 Credits	

	COMM 1500	Introduction to Mass Communication	3
	COMM 2300	Public Relations	3
	COMM 3020	Communication Research Methods	3
	COMM 3050	Theories of Communication and Culture	3
	COMM 4930	Communication Capstone	3
	COMM 431R	Communication Executive Lecture Series	1
Choose one of the following two courses:		3	
	COMM 1020	Public Speaking (3.0)	
	COMM 1130	Writing for the Mass Media (3.0)	
Choose one of the following two courses:		3	
	COMM 3000	Media Ethics (3.0)	
	COMM 3700	Free Expression in a Democratic Society (3.0)	
Elective Requirements:		13 Credits	
Complete 13 credits of electives 1000 level or higher		13	
Emphasis Requirements:		27 Credits	
	COMM 1610	Reporting for the Mass Media	3
	COMM 3100	Propaganda and Persuasion	3
	COMM 481R	Internship (1.0)	3
	COMM 3790	Case Studies in Journalism	3
	COMM 3000	Media Ethics	3
or	COMM 3700	Free Expression in a Democratic Society (3.0)	
Complete 6 credits from the following Media and Practice courses:		6	
	COMM 2790	Magazine Writing (3.0)	
	COMM 2100	The News Editing Process (3.0)	
	COMM 2560	Radio Production (3.0)	
	COMM 2250	Principles of Advertising (3.0)	
	COMM 2510	Visual Strategies for Communication Majors (3.0)	
Complete 6 credits from the following Applied Theory and Research courses:		6	
	COMM 3150	Film Theory (3.0)	
	COMM 362G	International Communication (3.0)	
	COMM 3660	Investigative Reporting (3.0)	
	COMM 3780	Mormon Cultural Studies (3.0)	
Emphasis Elective Requirements:		23 Credits	
Complete 6 credits from the following:		6	
	COMM 3130	The Culture of Nature and Technology (3.0)	
	COMM 3150	Film Theory (3.0)	
	COMM 319G	Intercultural Communication Encounters (3.0)	
	COMM 332G	Cross-Cultural Communications for International Business (3.0)	
	COMM 350R	Special Topics in Communication (3.0)	
	COMM 3520	Public Relations Case Studies (3.0)	
	COMM 3530	Public Relations Writing (3.0)	
	COMM 3660	Investigative Reporting (3.0)	
	COMM 3680	Advertising Media Planning (3.0)	
	COMM 3780	Mormon Cultural Studies (3.0)	

Communication

Any courses 1000 or higher (10 credits must be upper division).	17
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Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of COMM courses with a C- or higher.
6. Successful completion of at least one Global/Intercultural course.

Communication - Journalism Emphasis, B.S. Careers

Careers:
Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Communication - Public Relations Emphasis, B.A.

Requirements

Students seeking a degree in public relations from Utah Valley University will find themselves in a rigorous study of the ins and outs of public relations. The public relations emphasis provides students with dynamic in-class instruction as well as multiple options for real-world experience. Public Relations students learn the vital role that they can play in a vast array of professions, and learn the skills to do so by taking courses such as Public Relations Writing, and Case Studies in Public Relations. Public Relations students also have many opportunities for student involvement. In 2010 UVU became a charter member of PRSSA which opened several opportunities for our students both on campus and across the nation. In 2013, our PRSSA student organization won the "Chapter of the Year" at the Public Relations Society of America (PRSA) annual conference in Philadelphia, Pennsylvania. Students who are pursuing a career in Public Relations it is recommended that they take upper division (3000+) Business Management courses to prepare them for the corporate environment.

Total Program Credits: 120

General Education Requirements:	36 Credits
ENGL 1010 Introduction to Writing	3
ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)	
or ENGL 2020 Intermediate Writing--Science and Technology	3
STAT 1040 Introduction to Statistics	3
or STAT 1045 Introduction to Statistics with Algebra (5.0)	
Complete one of the following:	3
HIST 1700 American Civilization (3.0)	
HIST 2700 US History to 1877 (3.0)	

and HIST 2710 US History since 1877 (3.0)	
HIST 1740 US Economic History (3.0)	
POLS 1000 American Heritage (3.0)	
POLS 1100 American National Government (3.0)	
Complete the following:	
PHIL 2050 Ethics and Values	3
HLTH 1100 Personal Health and Wellness (2.0)	
or PES 1097 Fitness for Life	2
Distribution Courses:	
Biology	3
Physical Science	3
Additional Biology or Physical Science	3
Humanities (Any Foreign Language 202G/202O course)	4
Fine Arts	3
COMM 2110 Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:	22 Credits
COMM 1500 Introduction to Mass Communication	3
COMM 2300 Public Relations	3
COMM 3020 Communication Research Methods	3
COMM 3050 Theories of Communication and Culture	3
COMM 4930 Communication Capstone	3
COMM 431R Communication Executive Lecture Series	1
Choose one of the following two courses:	3
COMM 1020 Public Speaking (3.0)	
COMM 1130 Writing for the Mass Media (3.0)	
Choose one of the following two courses:	3
COMM 3000 Media Ethics (3.0)	
COMM 3700 Free Expression in a Democratic Society (3.0)	
Elective Requirements:	12 Credits
Complete 12 credits from one foreign language to include the 1010, 1020, and 2010 levels.	12
Emphasis Requirements:	27 Credits
COMM 2510 Visual Strategies for Communication Majors	3
COMM 3140 Social Media Content Creation	3
COMM 3520 Public Relations Case Studies	3
COMM 3530 Public Relations Writing	3
COMM 481R Internship	3
COMM 4850 Public Relations Campaigns	3
Complete 9 COMM credits (6 must be upper division)	9
Emphasis Elective Requirements:	23 Credits
Any courses 1000 or higher (10 credits must be upper division).	23

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Completion of COMM courses with a C- or higher.
7. Successful completion of at least one Global/Intercultural course.

Communication - Public Relations Emphasis, B.A. Careers

Careers:	
Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.	

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- Writers and Authors

Communication - Public Relations Emphasis, B.S.

Requirements

Students seeking a degree in public relations from Utah Valley University will find themselves in a rigorous study of the ins and outs of public relations. The public relations emphasis provides students with dynamic in-class instruction as well as multiple options for real-world experience. Public Relations students learn the vital role that they can play in a vast array of professions, and learn the skills to do so by taking courses such as Public Relations Writing, and Case Studies in Public Relations. Public Relations students also have many opportunities for student involvement. In 2010 UVU became a charter member of PRSSA which opened several opportunities for our students both on campus and across the nation. In 2013, our PRSSA student organization won the "Chapter of the Year" at the Public Relations Society of America (PRSA) annual conference in Philadelphia, Pennsylvania. Students who are pursuing a career in Public Relations it is recommended that they take upper division (3000+) Business Management courses to prepare them for the corporate environment.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
	STAT 1040	Introduction to Statistics (recommended for Social Science majors)	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	

Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	Fine Arts		3
	COMM 2110	Interpersonal Communication (fulfills Social/ Behavioral Science)	3
Discipline Core Requirements:			22 Credits
	COMM 1500	Exploring the Communication Major (Must pass with a C- or better)	3
	COMM 2300	Public Relations	3
	COMM 3020	Communication Research Methods	3
	COMM 3050	Theories of Communication and Culture	3
	COMM 4930	Communication Capstone	3
	COMM 431R	Communication Executive Lecture Series	1
Choose one of the following two courses:			3
	COMM 1020	Public Speaking (3.0)	
	COMM 1130	Writing for the Mass Media (3.0)	
Choose one of the following two courses:			3
	COMM 3000	Media Ethics (3.0)	
	COMM 3700	Free Expression in a Democratic Society (3.0)	
Elective Requirements:			13 Credits
	Complete 13 credits of electives 1000 level or higher		13
Emphasis Requirements:			27 Credits
	COMM 2510	Visual Strategies for Communication Majors	3
	COMM 3140	Social Media Content Creation	3
	COMM 3520	Public Relations Case Studies	3
	COMM 3530	Public Relations Writing	3
	COMM 481R	Internship	3
	COMM 4850	Public Relations Campaigns	3
Complete 9 COMM credits (6 must be upper division)			9
Emphasis Elective Requirements:			23 Credits
	Any courses 1000 or higher (10 credits must be upper division).		23

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
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Communication

Communication - Public Relations Emphasis, B.S. Careers

Careers:

Virtually every modern field of endeavor has increasing demand for specialists with training in the field of communication. Traditional areas of employment for communication students include: print and electronic journalism; print and electronic entertainment; public relations (public affairs, media relations, customer relations, marketing, etc.); advertising; various sorts of writing, reviewing, and editing; training; sales; project management; and management. Today, new media technologies are expanding the need for communication specialists, as well as their range of skills. Communication also provides excellent preparation for graduate study in the fields of business, education, law, psychology, and of course, communication.

Related Careers

- Communications Teachers, Postsecondary
- Radio and Television Announcers
- Public Address System and Other Announcers
- Public Relations Specialists
- Writers and Authors

Community Outreach and Economic Development

Name:	Community Outreach and Economic Development
Location:	EE 201
Telephone:	801-863-7570
Email:	Robyn.Farnsworth@uvu.edu
Web Address:	http://www.uvu.edu/academicoutreach/
Associate Vice President:	Jessica Gilmore

MISSION STATEMENT

The mission of Community Outreach is to collaborate with the University community, K-16 alliances, and other community entities in facilitating the development of relevant career and college pathways that support workforce and economic development and inspire a culture of lifelong learning.

Community Outreach Focus

Community Outreach & Economic Development is comprised of several departments: Community Education, Professional and Continuing Education, Concurrent Enrollment, Career & Technical Education, Extended Studies, Small Business Resource Center, iMPact Utah, Technology Commercialization, PTAC, USTAR, and the Wasatch Campus. It coordinates with and supports academic departments in offering certificates and two-year degrees. For detailed information on a given department or academic program, please refer to the information provided under each alphabetically-listed department name in the catalog or contact the appropriate academic advisor.

Career and Technical Education

The Career & Technical Education department at UVU supports and provides opportunities for students to acquire and use high-quality technical and career skills through focused, engaged learning, to prepare them for meaningful employment in a competitive global workforce. Types of programs include: Certificates of Proficiency and Completion and AA, AS, and AAS degrees.

The Center for Professional and Continuing Education

The Center for Professional and Continuing Education is comprised of three departments: Professional and Continuing Education, Community Education/Turning Point, and Executive Education through the Business Resource Center. It provides comprehensive, relevant, and continuing and professional education offerings that culminate in certificates of competence microcredentials, and electronic badges.

- **Community Education:** Community Education offers Turning Point and English as a Second Language programs and a variety of informative and engaging classes for adults and youth covering topics from art, fitness, cooking, health, gardening, home improvement, photography and English as a second language. It is a community and university resource for individuals wanting to improve on a personal, educational and/or professional level. Participants can access numerous services to help complete education goals, build personal relationships, master communications skills, and learn job-seeking strategies.
- **Executive Leadership:** This division focuses on providing relevant solutions that matter most to captains of industry. Their solutions and offerings are centric to revenue growth, gaining access to capital, developing operational excellence, incorporating leadership development skills, and providing tools that help executives successfully address any other element of business that stand in the path of those critical focuses.
- **Professional and Continuing Education:** Professional trainings provide the pathway in today's highly competitive environment to career advancement, employment and job opportunities. Explore personal ambitions tailored to help you acquire new or specialized job skills, certifications and/or professional development in technology, management, business, finance, marketing and sales.

- **Executive Leadership:** This division focuses on providing relevant solutions that matter most to captains of industry. Their solutions and offerings are centric to revenue growth, gaining access to capital, developing operational excellence, incorporating leadership development skills, and providing tools that help executives successfully address any other element of business that stand in the path of those critical focuses.
- **Noncredit or Continuing Education:** Students are taking courses to pursue personal or professional interest, gain general knowledge, learn a new skill, upgrade existing skills, or enrich their personal understanding of a wide variety of topics. These courses do not offer college credit, but in some cases noncredit or continuing education students can earn continuing education units, certification or other evidence of class completion to meet personal or professional requirements. Noncredit course work cannot be substituted for a credit requirement or any required course on a degree pathway.

Concurrent Enrollment

Concurrent Enrollment is a Utah Valley University high school partnership program where qualified students earn college credit. College classes are taught at the high school by UVU-approved high school instructors using college curriculum and assessment. The Concurrent Enrollment Office, UVU Academic Departments, and the partnering high schools work closely together to uphold the academic quality of each course.

Extended Studies

The office of Extended Studies coordinates and enhances academic educational opportunities for students at non-traditional times and locations, including:

- Weekend College
- Thanksgiving Point
- Eagle Mountain
- Wasatch Campus
- Santaquin
- Salem (Nebo School District)
- Spanish Fork

Wasatch Campus

Located two miles north of Heber City on Highway 40, the UVU Wasatch Campus offers educational opportunities to area residents including: AS degrees in University Studies, Behavioral Science, and Business Management; a BS degree in Elementary Education; community education courses; and conferences and meetings. They offer administrative support for faculty, staff, and students, including tutoring center for writing and mathematics and face-to-face and live interactive class support.

Business Resource Center (www.uvu.edu/brc)

The BRC part of a statewide network of offices tasked with helping business grow. They BRC is also a one-stop help center for Utah businesses to help them become successful. In addition, the Orem office houses a business incubator/accelerator. The agencies that call the BRC home and focus on economic development include, but are not limited to:

Small Business Resource Development Center (SBDC) helps entrepreneurs get started in business and help small businesses grow to the next level.

USTAR (Utah's Science Technology and Research) works closely with computer technology companies, universities, economic development professionals, start-ups, and innovators in the region, focusing on robotics and Internet of Things (IoT) technologies.

iMPact Utah works directly with manufacturers in areas such as cost control and reduction, technology deployment, skill development, quality system analysis and creation, process analysis and improvement,

Technology Commercialization helps individuals patent and develop intellectual property.

PTAC (Procurement Technical Assistance Center) helps Utah businesses find, bid, and win procurement opportunities with federal, state, and local government entities.

Computer Science

Name:	Computer Science
Location:	CS 520
Telephone:	801-863-8218
Email:	ComputerScience@uvu.edu
Web Address:	uvu.edu/cs
Chair:	Neil B. Harrison

Mission Statement

The mission of the Computer Science program at Utah Valley University is to qualify students to function as professional computer scientists, computer engineers, and software engineers in the workplace, and to enter appropriate graduate programs. Graduates will be committed to lifelong learning and empowered with the intellectual and ethical foundations necessary to make responsible decisions.

Computer Science

Advisors:

- Arlene Padilla Arenaz
- **Telephone:** 801-863-5748
- **Email:**ArleneA@uvu.edu
- Shandi Erickson
- **Telephone:** 801-863-6238
- **Email:**Shandi.Erickson@uvu.edu
- Jennie Olson
- **Telephone:** 801-863-8408
- **Email:**Jennie.Olson@uvu.edu

Coordinators:

- **Computer Science - Computer Science Emphasis:**
- Todd Peterson
- **Email:**ToddP@uvu.edu
- **Computer Science - Computer Networking Emphasis:**
- David Heldenbrand
- **Email:**heldenda@uvu.edu
- **Software Engineering:**
- Jingpeng Tang
- **Email:**JTang@uvu.edu
- **Electrical & Computer Engineering:**
- Afsaneh Minaie
- **Email:**minaidaf@uvu.edu

Four four-year bachelor degrees are offered: Computer Science, Software Engineering, Electrical Engineering, and Computer Engineering. The Computer Science degree (BS-CS) is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) and offers two areas of emphasis: Computer Science and Computer Networking. The Computer Science degree conforms to the Association of Computing Machinery (ACM) and Institute of Electrical and Electronics Engineering (IEEE) joint model curriculum; the Software Engineering degree conforms to the IEEE Computer Society's Software Engineering Body of Knowledge; and the Computer Engineering degree conforms to the IEEE Computer Society's Computer Engineering Body of Knowledge.

Note: Students may earn only one BS Degree in Computer Science or Software Engineering. Additional degrees will not be awarded for completing subsequent BS-CS areas of emphasis.

Requirements for Certificate of Completion (Programmer), Associate in Science in Computer Science (AS-CS) and Associate in Applied Science in Computer Science

(AAS-CS) with emphasis in Computer Engineering and in Computing and Networking Sciences degrees are included within the BS degree requirements. Students majoring in Computer Science degrees are encouraged to review these degrees and apply for them when they have met the requirements. The Computer Engineering degree (BS-CE) is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

Classroom instruction is supported by well-equipped computer labs.

Career Opportunities

Degrees offered by the Computer Science Department prepare students for rewarding career opportunities in many different fields. Occupations available to graduates of our programs are consistently listed as among the highest paid and most in demand, and the long-term employment outlook is currently excellent.

Internships

Computer Science is committed to adequately preparing students for their intended career path. Thus, they encourage internship opportunities that provide students with applied knowledge to complement the theory learned in the classroom, and also enhances their resumes and marketability upon graduation.

DEPARTMENT CHAIR

HARRISON, Neil B. *Professor*

FACULTY

ALLISON, Charles *Professor*
DOGGETT, Dana *Lecturer*
DURNEY, Brian *Associate Professor*
HARRISON, Neil B. *Professor*
HELDENBRAND, David *Professor*
KAMALI-SARVESTANI, Reza *Associate Professor*
KNADLER, Charles *Lecturer*
MASOUM, Mohammad A.S. *Associate Professor*
MINAIE, Afsaneh *Professor*
PETERSON, Todd *Associate Professor*
RUDOLPH, George *Associate Professor*
SALEHI, Sayed *Assistant Professor*
SANATI-MEHRIZY, Reza *Professor*
SHARP, Craig *Lecturer*
TANG, Jingpeng *Associate Professor*
THACKERAY, Lynn Roy *Lecturer*
WAGSTAFF, David *Lecturer*
WELBORN, Curtis *Professor*

Course Descriptions

Computer Science..... 631
 Electrical and Computer Engineering..... 658

Degrees & Programs

Computer Science - Computer Engineering Emphasis, A.A.S.

Requirements

The program introduces the student to a wide range of computer systems hardware, software, device drivers and peripheral devices.

Total Program Credits: 64

Computer Science

General Education Requirements:		13 Credits
A minimum of 16 credits of General Education requirements are required for graduation. Not all GE requirements are listed in this section (see Specialty Core requirements for more details).		
ENGL 1010	Introduction to Writing	3
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE (COMM 1020 recommended)		3
COMM 2110	Interpersonal Communication *	3
BIOLOGY		3
or	PHYS 2210	Physics for Scientists and Engineers I (4.0) *
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT (HLTH 1100 or PES 1097 Recommended)		1
Discipline Core Requirements:		9 Credits
Complete the following:		
CS 1400	Fundamentals of Programming *	3
CS 2600	Computer Networks I *	3
CS 2810	Computer Organization and Architecture *	3
Emphasis Requirements:		26 Credits
Complete the following (minimum grade of C- required):		
ECE 1020	Computer Engineering Problem Solving with MATLAB and LabVIEW	1
ECE 2250	Circuit Theory	3
ECE 2255	Circuit Theory Lab	1
ECE 2700	Digital Design I	3
ECE 3740	Digital Design II	3
IT 1510	Introduction to System Administration--Linux/UNIX	3
MATH 1210	Calculus I (fulfills GE requirement)	5
CS 1410	Object-Oriented Programming	3
CS 2420	Introduction to Algorithms and Data Structures	3
ECE 2705	Digital Design I Lab	1
Emphasis Elective Requirements:		16 Credits
Complete 16 credits from the following courses (minimum grade of C- required). (Must be approved by CSE Department. See CSE Advisor):		
CS 2300	Discrete Mathematical Structures I (3.0)	
CS 2450	Software Engineering (3.0)	
CS 2550	Web Programming I (3.0)	
CS 3060	Operating Systems Theory (3.0)	
CS 3520	Database Theory (3.0)	
ECE 3750	Engineering Analysis (3.0)	
ECE 3770	Signals and Systems (3.0)	
ECE 4730	Embedded Systems II (3.0)	
ECE 4750	Digital Signal Processing (3.0)	
ECE 3760	Electronic Systems (3.0)	
ECE 3765	Electronic Systems Lab (1.0)	
MATH 1220	Calculus II (5.0)	
PHYS 2215	Physics for Scientists and Engineers I Lab (1.0)	

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

Footnote:
* Minimum grade of C- required

Computer Science - Computer Engineering Emphasis, A.A.S. Careers

Careers:
Students will be able to compete for entry level programming jobs, but should make this degree as part of the Bachelor's program in order to receive the greatest potential from the degree.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Computer Science - Computing and Networking Sciences Emphasis, A.A.S.

Requirements

The program introduces the student to a wide range of networking and data communications technologies and entry level programming.

Total Program Credits: 64

General Education Requirements:		13 Credits
A minimum of 16 credits of General Education requirements are required for graduation. Not all GE requirements are listed in this section (see Specialty Core requirements for more details).		
ENGL 1010	Introduction to Writing	3
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE (COMM 1020 recommended)		3
COMM 2110	Interpersonal Communication *	3
BIOLOGY		3
or	PHYS 2210	Physics for Scientists and Engineers I (4.0) *
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT (HLTH 1100 or PES 1097 Recommended)		1
Discipline Core Requirements:		9 Credits
Complete the following:		
CS 1400	Fundamentals of Programming *	3
CS 2600	Computer Networks I *	3
CS 2810	Computer Organization and Architecture *	3
Emphasis Requirements:		24 Credits
Complete the following:		
CS 1410	Object-Oriented Programming	3
CS 2300	Discrete Mathematical Structures I	3

	CS 2420	Introduction to Algorithms and Data Structures	3
	CS 2690	Computer Networks II	3
	CS 3060	Operating Systems Theory	3
	CS 3250	Java Software Development	3
or	CS 3260	CsharpNET Software Development (3.0)	
	CS 3520	Database Theory	3
	MATH 1060	Trigonometry (fulfills GE requirement)	3
Emphasis Elective Requirements:			18 Credits
Complete 18 credits from the following courses (minimum grade of C- required). (Must be approved by CSE Department. See CSE Advisor):			18
	CS 1030	Foundations of Computer Science (3.0)	
	CS 2250	Java Programming (3.0)	
or	CS 3250	Java Software Development (3.0)	
	CS 2370	C-plus-plus Programming (3.0)	
or	CS 3370	C-plus-plus Software Development (3.0)	
	CS 2450	Software Engineering (3.0)	
	CS 2550	Web Programming I (3.0)	
	CS 281R	Internship (3.0 credits max.) (1.0)	
	CS 3260	CsharpNET Software Development (3.0)	
	CS 3410	Human Factors in Software Development (3.0)	
	CS 3660	Web Programming II (3.0)	
	CS 3670	Network Programming (3.0)	
	CS 4470	Artificial Intelligence (3.0)	
	CS 4610	TCP/IP Internet Architecture (3.0)	
	ECE 2700	Digital Design I (3.0)	
and	ECE 2705	Digital Design I Lab (1.0)	
	ECE 3750	Engineering Analysis (3.0)	
	IT 1510	Introduction to System Administration--Linux/UNIX (3.0)	
	IT 3510	Advanced System Administration--Linux/UNIX (3.0)	
	MATH 1210	Calculus I (5.0)	
	MATH 1220	Calculus II (5.0)	
	PHYS 2215	Physics for Scientists and Engineers I Lab (1.0)	

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

Footnote:

* Minimum grade of C- required

Computer Science - Computing and Networking Sciences Emphasis, A.A.S.

Careers

Careers:

Students will be able to compete for entry level programming jobs, but should make this degree as part of the Bachelor's program in order to receive the greatest potential from the degree.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Computer Science, A.S.**Requirements**

The CS Associate degree is a transfer degree used when a student is contemplating changing schools. Because it includes all general education classes, attempting to earn this degree four semesters will necessarily lengthen the time to earn a BS degree.

Total Program Credits: 64

General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses		
Humanities:		
COMM 1020	Public Speaking (recommended)	3

Computer Science

Social Science:		
COMM 2110	Interpersonal Communication (recommended)	3
Physical Science:		
PHYS 2210	Physics for Scientists and Engineers I *	4
PHYS 2215	Physics for Scientists and Engineers I Lab *	1
Additional Physical Science:		
PHYS 2220	Physics for Scientists and Engineers II *	4
PHYS 2225	Physics for Scientists and Engineers II Lab *	1
Additional Distribution Courses		
Biology		3
Fine Arts Distribution		3
Discipline Core Requirements:		25 Credits
CS 1400	Fundamentals of Programming *	3
CS 1410	Object-Oriented Programming *	3
CS 2300	Discrete Mathematical Structures I *	3
CS 2420	Introduction to Algorithms and Data Structures *	3
CS 2810	Computer Organization and Architecture *	3
MATH 1210	Calculus I *	5
MATH 1220	Calculus II *	5

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a C- in Discipline Core courses.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote

*Minimum grade of C- required

Computer Science, A.S. Careers

Careers:

The programming skills learned in this degree will be suitable to do low level programming (phone apps, webpage development, and some larger applications).

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Programmer, Certificate of Completion

Requirements

The program introduces the students to basic, entry level programming.

Total Program Credits: 30

Discipline Core Requirements:		21 Credits
Complete the following:		
CS 1400	Fundamentals of Programming	3
CS 1410	Object-Oriented Programming	3
CS 2300	Discrete Mathematical Structures I	3
CS 2420	Introduction to Algorithms and Data Structures	3
CS 2600	Computer Networks I	3
CS 2810	Computer Organization and Architecture	3
ENGL 1010	Introduction to Writing	3
Elective Requirements:		9 Credits
Choose 9 credits from the following courses (Must be approved by CSE Department. See CSE adviser):		9
CS 2250	Java Programming (3.0)	
or CS 3250	Java Software Development (3.0)	
CS 2370	C-plus-plus Programming (3.0)	
or CS 3370	C-plus-plus Software Development (3.0)	
CS 239R	Current Topics in Computer Science (1.0)	
CS 2550	Web Programming I (3.0)	
CS 3060	Operating Systems Theory (3.0)	
CS 3260	CsharpNET Software Development (3.0)	
CS 3520	Database Theory (3.0)	
IT 1510	Introduction to System Administration--Linux/UNIX (3.0)	

Graduation Requirements:

1. Completion of a minimum of 30 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Programmer, Certificate of Completion Careers

Careers:

Simple, entry level jobs can be attained with this degree, but student should consider the Bachelor's degree to receive the greatest potential.

Related Careers

- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Science Teachers, Postsecondary

Computer Science, Minor

Requirements

The program provides the student with entry level programming instruction, and an overview of some portions of the program.

Total Program Credits: 18

Discipline Core Requirements:		9 Credits
CS 1400	Fundamentals of Programming	3

CS 1410	Object-Oriented Programming	3
CS 2420	Introduction to Algorithms and Data Structures	3
Elective Requirements:		9 Credits
Complete at least three CS courses numbered 3060 or above		9

Graduation Requirements:

- To fill the requirements for a computer science minor students must have no course grade lower than C- in any of the CNS courses required for the computer science minor

Computer Science, Minor Careers

Careers:
Students who work in organizations that use or develop software will have an appreciation for that skill set which will aid them in their own career development.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Computer Engineering, B.S.

Requirements

Computer Engineering encompasses the science and technology of design, construction, implementation, testing, and maintenance of integrated software and hardware components of modern computing systems and computer-controlled equipment (cell phones, video games, laptops).

Total Program Credits: 126

General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
American Institutions: Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
COMM 1020	Public Speaking	3
COMM 2110	Interpersonal Communication	3
Fine Arts (Choose from list)		3

Biology (Choose from list)		3
MATH 1210	Calculus I	5
PHYS 2210	Physics for Scientists and Engineers I	4
CHEM 1210	Principles of Chemistry I	4
Discipline Core Requirements:		84 Credits
CS 1400	Fundamentals of Programming	3
CS 1410	Object-Oriented Programming	3
CS 2300	Discrete Mathematical Structures I	3
CS 2420	Introduction to Algorithms and Data Structures	3
CS 2450	Software Engineering	3
CS 2600	Computer Networks I	3
CS 2810	Computer Organization and Architecture	3
CS 305G	Global Social and Ethical Issues in Computing	3
CS 3060	Operating Systems Theory	3
CS 4380	Advanced/High-Performance Computer Architecture	3
COMP 301R	Digital Lecture Series	1
ECE 1020	Computer Engineering Problem Solving with MATLAB and LabVIEW	1
ECE 2700	Digital Design I	3
ECE 2250	Circuit Theory	3
ECE 2705	Digital Design I Lab	1
ECE 2255	Circuit Theory Lab	1
ECE 3710	Applied Probability and Statistics for Engineers and Scientists	3
ECE 3730	Embedded Systems I	3
ECE 3740	Digital Design II	3
ECE 3750	Engineering Analysis	3
ECE 3760	Electronic Systems	3
ECE 3765	Electronic Systems Lab	1
ECE 3770	Signals and Systems	3
ECE 4730	Embedded Systems II	3
ECE 4750	Digital Signal Processing	3
ECE 4760	VLSI Design	3
ECE 4800	Computer Engineering Senior Design Project	3
ECE 4765	VLSI Design Laboratory	1
PHYS 2225	Physics for Scientists and Engineers II Lab	1
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2220	Physics for Scientists and Engineers II	4
CHEM 1215	Principles of Chemistry I Laboratory	1
MATH 1220	Calculus II	5
Elective Requirements:		3 Credits
ECE 4770	Artificial Neural Networks	3
or ECE 4780	Wireless and Mobile Communications (3.0)	

Graduation Requirements:

- Completion of a minimum of 126 semester credits, with a minimum of 40 upper-division credits.

Computer Science

- Overall grade point average of 2.5 or above, with a minimum grade of C- in all discipline core and elective requirements.
- Residency hours - minimum of 30 credit hours through course attendance at UVU. 10 of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CS + ECE courses.
- All transfer credit must be approved in writing by UVU.
- No more than 80 semester hours and no more than 20 hours in CS and ECE courses of transfer credit.
- No more than 6 semester hours may be earned through independent study.
- Successful completion of at least one Global/Intercultural course.

Computer Engineering, B.S. Careers

Careers:
Computer Engineering is one of the fastest growing fields anywhere, and continues to be one of the most marketable degrees offering some of the best salaries.

Related Careers

- Architectural and Engineering Managers
- Computer Hardware Engineers
- Engineering Teachers, Postsecondary

Computer Science - Computer Networking Emphasis, B.S.

Requirements

The Networking specialization in the Computer Science degree program is designed to prepare students with strong internet-related programming and/or engineering skills. In addition to core Computer Science courses, it requires in-depth courses in network and Internet operations as well as extensive experience in web and network software development.

Total Program Credits: 120

Matriculation Requirements:			
<ol style="list-style-type: none"> Completion of CS 1400, CS 1410, CS 2300, and CS 2420 with a grade of C+ or better. Completion of MATH 1210 and ENGL 1010 with a grade of C or better. Overall GPA of 2.5 or higher. 			
General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1210	Calculus I *	5
American Institutions: Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			

	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	COMM 1020	Public Speaking *	3
	COMM 2110	Interpersonal Communication *	3
	Fine Arts Distribution (choose from list)		3
	Biology (choose from list)		3
	PHYS 2210	Physics for Scientists and Engineers I *	4
and	PHYS 2215	Physics for Scientists and Engineers I Lab*	1
	Additional GE to be completed in the core.		
Discipline Core Requirements:			48 Credits
Complete one of the following course/lab combinations:			5
	BIOL 1610	College Biology I (4.0)	
and	BIOL 1615	College Biology I Laboratory (1.0)	
or	CHEM 1210	Principles of Chemistry I (4.0)	
and	CHEM 1215	Principles of Chemistry I Laboratory (1.0)	
or	PHYS 2020	College Physics II (4.0)	
and	PHYS 2025	College Physics II Lab (1.0)	
or	PHYS 2220	Physics for Scientists and Engineers II (4.0)	
and	PHYS 2225	Physics for Scientists and Engineers II Lab (1.0)	
or	GEO 1010	Introduction to Geology (3.0)	
and	GEO 1015	Introduction to Geology Laboratory (1.0)	
and	GEO 202R	Science Excursion (1.0)	
Minimum grade of C- required in these courses.			
	COMP 301R	Digital Lecture Series	1
	CS 1400	Fundamentals of Programming	3
	CS 1410	Object-Oriented Programming	3
	CS 2300	Discrete Mathematical Structures I	3

	CS 2420	Introduction to Algorithms and Data Structures	3
	CS 2550	Web Programming I	3
	CS 2600	Computer Networks I	3
	CS 2690	Computer Networks II	3
	CS 2810	Computer Organization and Architecture	3
	CS 305G	Global Social and Ethical Issues in Computing	3
	CS 3060	Operating Systems Theory	3
	CS 3240	Discrete Mathematical Structures II	3
	CS 3320	Numerical Software Development	3
	CS 3520	Database Theory	3
	ECE 3710	Applied Probability and Statistics for Engineers and Scientists	3
Emphasis Requirements:			27 Credits
Minimum grade of C- required in these courses:			
	CS 2450	Software Engineering	3
	CS 3250	Java Software Development	3
	CS 3660	Web Programming II	3
	CS 3670	Network Programming	3
	CS 4610	TCP/IP Internet Architecture	3
	CS 4670	Undergraduate Research Project for Networking Specialization	3
	CS 4690	Distributed Internet Application Development	3
	IT 1510	Introduction to System Administration--Linux/UNIX	3
	IT 3510	Advanced System Administration--Linux/UNIX	3
Emphasis Elective Requirements:			9 Credits
Complete 9 credits from the following or any CS 3000 or 4000 level course not already required. A minimum grade of C- is required in these courses.			9

	CS 3370	C-plus-plus Software Development (3.0)	
	CS 3540	Game Programming (3.0)	
	CS 3680	Mobile Device Programming (3.0)	
	CS 479R	Advanced Current Topics in Computer Science (1.0)	
	ECE 2700	Digital Design I (3.0)	
and	ECE 2705	Digital Design I Lab (1.0)	
	ECE 4780	Wireless and Mobile Communications (3.0)	
	IT 2400	Voice and Data Cabling Fundamentals (3.0)	
	IT 2700	Information Security Fundamentals (3.0)	
	IT 2800	Computer Forensic Fundamentals (3.0)	
	IT 3530	Advanced System Administration--Windows Server (3.0)	
	IT 3600	Internetworking and Router Management (3.0)	
	IT 3700	Information Security--Network Defense and Countermeasures (3.0)	
	MATH 1220	Calculus II (5.0)	
	MATH 2270	Linear Algebra (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 or above. Must have a minimum grade of C- with a combined GPA of 2.5 or higher in all discipline core and emphasis requirements and the General Education requirements marked with an asterisk.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU. 10 of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CSE Department courses.
4. All transfer credit must be approved in writing by UVU.
5. No more than 80 semester hours and no more than 20 hours in CS type courses of transfer credit from a two-year college.
6. No more than 30 semester hours may be earned through independent study and/or extension classes.
7. Successful completion of at least one Global/Intercultural course.

Footnote:

* Minimum grade required (see Graduation Requirements)

Computer Science

Computer Science - Computer Networking Emphasis, B.S.

Careers

Careers:
Graduates will work with organizations as important as national security departments associated with network security to small companies needing help with their network and network related software.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Computer Science - Computer Science Emphasis, B.S.

Requirements

Computer Science spans the range from theory through programming to cutting-edge development of computing solutions. Computer Scientists master the theory and practice of computing, and explore new and exciting ways to use computers. Systems like Google and Amazon are created by computer scientists.

Total Program Credits: 120

Matriculation Requirements:			
1. Completion of CS 1400, CS 1410, CS 2300, and CS 2420 with a grade of C+ or better.			
2. Completion of MATH 1210 and ENGL 1010 with a grade of C or better.			
3. Overall GPA of 2.5 or higher.			
General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1210	Calculus I *	5
American Institutions: Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3

	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	COMM 1020	Public Speaking *	3
	COMM 2110	Interpersonal Communication *	3
	Fine Arts Distribution (choose from list)		3
	Biology (choose from list)		3
	PHYS 2210	Physics for Scientists and Engineers I *	4
and	PHYS 2215	Physics for Scientists and Engineers I Lab *	1
Discipline Core Requirements:			48 Credits
Complete one of the following additional GE course/lab combinations:			5
	BIOL 1610	College Biology I (4.0)	
and	BIOL 1615	College Biology I Laboratory (1.0)	
or	CHEM 1210	Principles of Chemistry I (4.0)	
and	CHEM 1215	Principles of Chemistry I Laboratory (1.0)	
or	PHYS 2020	College Physics II (4.0)	
and	PHYS 2025	College Physics II Lab (1.0)	
or	PHYS 2220	Physics for Scientists and Engineers II (4.0)	
and	PHYS 2225	Physics for Scientists and Engineers II Lab (1.0)	
or	GEO 1010	Introduction to Geology (3.0)	
and	GEO 1015	Introduction to Geology Laboratory (1.0)	
and	GEO 202R	Science Excursion (1.0)	
Minimum grade of C- required in these courses.			
	COMP 301R	Digital Lecture Series	1
	CS 1400	Fundamentals of Programming	3
	CS 1410	Object-Oriented Programming	3
	CS 2300	Discrete Mathematical Structures I	3

	CS 2420	Introduction to Algorithms and Data Structures	3
	CS 2550	Web Programming I	3
	CS 2600	Computer Networks I	3
	CS 2690	Computer Networks II	3
	CS 2810	Computer Organization and Architecture	3
	CS 305G	Global Social and Ethical Issues in Computing	3
	CS 3060	Operating Systems Theory	3
	CS 3240	Discrete Mathematical Structures II	3
	CS 3320	Numerical Software Development	3
	CS 3520	Database Theory	3
	ECE 3710	Applied Probability and Statistics for Engineers and Scientists	3
Emphasis Requirements:			27 Credits
Minimum grade of C- required in these courses.			
	CS 2450	Software Engineering	3
	CS 3250	Java Software Development (3.0)	
or	CS 3260	CsharpNET Software Development (3.0)	
or	CS 3270	Python Software Development	3
	CS 3310	Analysis of Algorithms	3
	CS 3370	C-plus-plus Software Development	3
	CS 3450	Principles and Patterns of Software Design	3
	CS 4380	Advanced/High-Performance Computer Architecture	3
	CS 4450	Analysis of Programming Languages	3
	CS 4470	Artificial Intelligence	3
	CS 4490	Compiler Construction	3

Emphasis Elective Requirements:		9 Credits
Complete 9 credits from the following: any CS 3000 or 4000 level course not already required. (Minimum grade of C- required in these courses.):		9
	ECE 3750	Engineering Analysis (3.0)
	IT 1510	Introduction to System Administration--Linux/UNIX (3.0)

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 or above. Must have a minimum grade of C- with a combined GPA of 2.5 or higher in all discipline core and emphasis requirements and the General Education requirements marked with an asterisk.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU. 10 of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CSE Department courses.
4. All transfer credit must be approved in writing by UVU.
5. No more than 80 semester hours and no more than 20 hours in CS type courses of transfer credit from a two-year college.
6. No more than 30 semester hours may be earned through independent study and/or extension classes.
7. Successful completion of at least one Global/Intercultural course.

Footnote
* Minimum grade required (see Graduation Requirements)

Computer Science - Computer Science Emphasis, B.S.

Careers

Careers:
The work of Computer Scientists falls into three categories: a) designing and building software; b) developing effective ways to solve computing problems, such as storing information in databases, sending data over networks or providing new approaches to security problems; and c) devising new and better ways of using computers and addressing particular challenges in areas such as robotics, computer vision, or digital forensics.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Electrical Engineering, B.S.

Requirements

A Bachelor of Science in Electrical Engineering provides a broad foundation in electrical engineering through combined classroom and laboratory work and prepares students for entering the profession of electrical engineering as well as further study at the graduate level. The core courses will provide students with a strong background in mathematics, physical science, and fundamentals of engineering.

Total Program Credits: 126

Computer Science

Matriculation Requirements:		
To be admitted to the BSEE program a student must complete the following courses with a minimum grade of C in these courses and grade point average of 2.5 or above. A student not meeting all of the admission requirements, may request in writing, a provisional admission status for a semester from the department. The provisional admission status must be approved by the electrical engineering program coordinator.		
<ul style="list-style-type: none"> • MATH 1210 Calculus I • MATH 1220 Calculus II • PHYS 2210 Physics for Scientists and Engineers I • PHYS 2215 Physics for Scientists and Engineers I Lab • PHYS 2220 Physics for Scientists and Engineers II • PHYS 2225 Physics for Scientists and Engineers II Lab • CS 1400 Fundamentals of Programming • CS 2810 Assembly Language and Computer Architecture • ENGR 1000 Introduction to Engineering • ECE 2700 Digital Design I • ECE 2705 Digital Design I Lab • ECE 2250 Circuit Theory • ECE 2255 Circuit Theory Lab 		
General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing Humanities Social Sciences	3
MATH 1210	Calculus I	5
American Institutions: Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
COMM 1020	Public Speaking	3
COMM 2110	Interpersonal Communication	3
Fine Arts (Choose from list)		3
Biology (Choose from list)		3
PHYS 2210	Physics for Scientists and Engineers I	4
CHEM 1210	Principles of Chemistry I	4
Discipline Core Requirements:		81 Credits
CS 1400	Fundamentals of Programming	3
CS 2810	Computer Organization and Architecture	3
ENGR 1000	Introduction to Engineering	3
ECE 2250	Circuit Theory	3
ECE 2255	Circuit Theory Lab	1
ECE 2700	Digital Design I	3
ECE 2705	Digital Design I Lab	1
ECE 2760	Introduction to Semiconductor Theory and Nanotechnology	3

ECE 3250	Power Systems Engineering	3
ECE 3350	Control Systems	3
ECE 3450	Electromagnetics and Transmission Lines	3
ECE 3710	Applied Probability and Statistics for Engineers and Scientists	3
ECE 3730	Embedded Systems I	3
ECE 3740	Digital Design II	3
ECE 3750	Engineering Analysis	3
ECE 3760	Electronic Systems	3
ECE 3765	Electronic Systems Lab	1
ECE 3770	Signals and Systems	3
ECE 3780	Communication Systems and Circuits	3
ECE 4730	Embedded Systems II	3
ECE 4750	Digital Signal Processing	3
ECE 4760	VLSI Design	3
ECE 4900	Electrical Engineering Capstone I	3
ECE 4950	Electrical Engineering Capstone II	3
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
CHEM 1215	Principles of Chemistry I Laboratory	1
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
Elective Requirements:		6 Credits
Complete a minimum of six credits from the following:		6
ECE 4770	Artificial Neural Networks (3.0)	
ECE 4780	Wireless and Mobile Communications (3.0)	
CS 4480	Digital Image Processing and Computer Vision (3)	

Graduation Requirements:

1. Completion of a minimum of 126 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.5 or above, with a minimum grade of C in all discipline core and elective requirements.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU. 10 of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CS + ECE courses.
4. All transfer credit must be approved in writing by UVU and the electrical engineering program coordinator.
5. No more than 80 semester hours and no more than 20 hours in CS and ECE courses of transfer credit.
6. No more than 6 semester hours may be earned through independent study.
7. Successful completion of at least one Global/Intercultural course.

Electrical Engineering, B.S.

Careers

Careers:
Computer Engineering is one of the fastest growing fields anywhere, and continues to be one of the most marketable degrees offering some of the best salaries.

Related Careers

- Architectural and Engineering Managers
- Aerospace Engineers

- Electrical Engineers
- Electronics Engineers, Except Computer
- Engineering Teachers, Postsecondary

Software Engineering, B.S.

Requirements

Software Engineers design and develop large software systems. In addition, they may lead teams of software developers or quality assurance engineers. They also work with users and customers to understand their needs. Software systems we take for granted, such as Microsoft Office, are implemented by software engineers. Software engineers employ innovative software development approaches, such as Agile software development, to effectively manage software development projects.

Total Program Credits: 122

Matriculation Requirements:			
1. Completion of CS 1400, CS 1410, CS 2300, and CS 2420 with a grade of C+ better.			
2. Completion of MATH 1210 and ENGL 1010 with a grade of C or better.			
3. Overall GPA of 2.5 or higher.			
General Education Requirements:			37 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1210	Calculus I*	5
American Institutions, complete one of the following:			3
	HIST 1740	US Economic History (3.0)	
	HIST 1700	American Civilization (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Requirements:			
	Physical Science distribution		3
	Biology distribution		3
	Additional Physical Science or Biology		3
	Fine Arts Distribution		3
	COMM 1020	Public Speaking*	3
	COMM 2110	Interpersonal Communication*	3
Discipline Core Requirements:			61 Credits

	CS 1400	Fundamentals of Programming	3
	CS 1410	Object-Oriented Programming	3
	CS 2810	Computer Organization and Architecture	3
	CS 2300	Discrete Mathematical Structures I	3
	CS 2420	Introduction to Algorithms and Data Structures	3
	CS 2450	Software Engineering	3
	CS 2600	Computer Networks I	3
	COMP 301R	Digital Lecture Series	1
	CS 305G	Global Social and Ethical Issues in Computing	3
	CS 3060	Operating Systems Theory	3
	CS 3240	Discrete Mathematical Structures II	3
	CS 3320	Numerical Software Development	3
	CS 3250	Java Software Development (3.0)	
or	CS 3370	C-plus-plus Software Development (3.0)	
or	CS 3260	CsharpNET Software Development (3.0)	
or	CS 3270	Python Software Development	3
	CS 3450	Principles and Patterns of Software Design	3
	CS 3410	Human Factors in Software Development	3
	CS 3520	Database Theory	3
	CS 4230	Software Testing and Quality Engineering	3
	CS 4400	Software Engineering II	3
	CS 4450	Analysis of Programming Languages	3
	CS 4550	Software Engineering III	3
	ECE 3710	Applied Probability and Statistics for	3

Computer Science

	Engineers and Scientists	
Elective Requirements:		24 Credits
Complete 12 credits from the following:		12
	Any CS course numbered 3000 or higher not already required.	
Complete at least 12 credits (at least 9 must be upper division) in an approved discipline other than Computer Science. See Advisor for details. Note that these credits may not also be used to fulfill general education requirements:		12

Graduation Requirements:

1. Completion of a minimum of 122 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.0 or above. Must have a minimum grade of C- with a combined GPA of 2.5 or higher in all discipline core and elective requirements and the General Education requirements marked with an asterisk.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU. Ten of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CSE Department courses.
4. No more than 80 semester hours and no more than 20 hours of transfer credit from a two-year college may be applied to the core or elective courses.
5. No more than 6 semester hours may be earned through independent study.
6. Successful completion of at least one Global/Intercultural course.

Footnotes: *Minimum grade of C- required.

Software Engineering, B.S.

Careers

Careers:
Software Engineers can expect to work in software development, to include eliciting customers' requirements, and designing and testing software

Related Careers

- Architectural and Engineering Managers
- Software Developers, Applications
- Software Developers, Systems Software
- Engineering Teachers, Postsecondary

Computer Science Graduate Programs

College of Engineering and Technology

- **Dean:** Saeed Moaveni
- **Office:** CS 720c
- **Telephone:** 801-863-8237
- **E-mail:** Saeed.Moaveni@uvu.edu

Master of Computer Science

- **Department Chair:** Neil Harrison
- **Office:** CS 520
- **Telephone:** 801-863-7312
- **Email:** Neil.Harrison@uvu.edu
- **Program Director:** Curtis Welborn
- **Office:** CS 520f
- **Telephone:** 801-863-7058
- **Email:** Curtis.Welborn@uvu.edu
- **Advisor:** Arlene Padilla Arenaz
- **Office:** CS 635
- **Telephone:** 801-863-5748
- **Email:** ArleneA@uvu.edu

Program Requirements

The Master of Computer Science (MCS) degree at Utah Valley University is an applied graduate program focused on preparing students to enter the local, national, and global workforce as leaders and innovators rather than focusing on preparing students to conduct basic research. An MCS degree is considered a professional degree as graduate students complete a graduate project rather than a theoretical or research-based thesis often associated with a Master of Science in Computer Science (MSCS) degree.

The focus of the degree does not mean you cannot explore exciting, cutting-edge new technologies; it just means we will focus your efforts on developing a working project that applies your new knowledge rather than focusing your efforts on basic research and writing papers on the topic. One should not assume that the degree's focus on completing a project means that the MCS does not value writing or presenting presentations. To be a workforce leader and innovator, you must be able to express highly technical and complex topics concisely and clearly. Developing your technical communication skills will always be a part of the MCS.

The MCS requires students to complete 30 hours of course work beyond their undergraduate degree to gain additional breadth and depth. Six hours of this course work will be associated with your graduate project where you will design and develop a large complex project from inception to completion. Students without an undergraduate degree in computer science who have a passion for the field are encouraged to apply. In such cases a student can be conditionally admitted while they complete an individualized leveling plan designed to bring their skills up to the required level to enter the MCS.

NOTE: Graduate policy precludes conditionally admitted students from taking any 6000 level courses. The UVU Computer Science Department cannot waive or alter this graduate policy.

Admission Requirements

The most desirable background for an MCS student is someone with an undergraduate degree in a computer-related field (Computer Science, Computer Engineering, Software Engineering, or a closely related field). The UVU Computer Science Department does not require nor does it use standardized test scores to evaluate the readiness of a candidate to begin the MCS. You will need an overall grade point average of 3.0 or

higher on a 4.0 scale. Additionally, you will need to have completed the following UVU or equivalent classes with a C+ or better:

- CS 2300 Discrete Structures I
- CS 2420 Introduction to Algorithms and Data Structures
- CS 2810 Computer Organization and Architecture
- CS 3060 Operating Systems Theory
- MATH 1210 Calculus I

The classes listed above represent the minimum set of courses an MCS candidate needs for acceptance into the MCS. Having the bare minimum classes to enter the MCS is not a guarantee of acceptance nor success. Candidates are highly encouraged to have either significant work experience or junior and senior level Computer Science classes beyond the minimum. Talk to the MCS Director or an MCS advisor for a list of upper division courses to help you prepare to enter and succeed in the MCS.

2018-19 Rate Master of Computer Science--Tuition and Fee Schedule

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
1	\$380	\$35	\$415	1	\$960	\$35	\$995
2	\$760	\$70	\$830	2	\$1,920	\$70	\$1,990
3	\$1,140	\$105	\$1,245	3	\$2,880	\$105	\$2,985
4	\$1,520	\$140	\$1,660	4	\$3,840	\$140	\$3,980
5	\$1,900	\$175	\$2,075	5	\$4,800	\$175	\$4,975
6	\$2,280	\$210	\$2,490	6	\$5,760	\$210	\$5,970
7	\$2,660	\$245	\$2,905	7	\$6,720	\$245	\$6,965
8	\$3,040	\$280	\$3,320	8	\$7,680	\$280	\$7,960
9	\$3,420	\$315	\$3,735	9	\$8,640	\$315	\$8,955
10	\$3,800	\$350	\$4,150	10	\$9,600	\$350	\$9,950
11	\$4,180	\$350	\$4,530	11	\$10,560	\$350	\$10,910
12	\$4,560	\$350	\$4,910	12	\$11,520	\$350	\$11,870
13	\$4,940	\$350	\$5,290	13	\$12,480	\$350	\$12,830
14	\$5,320	\$350	\$5,670	14	\$13,440	\$350	\$13,790
15	\$5,700	\$350	\$6,050	15	\$14,400	\$350	\$14,750
16	\$6,080	\$350	\$6,430	16	\$15,360	\$350	\$15,710
17	\$6,460	\$350	\$6,810	17	\$16,320	\$350	\$16,670
18	\$6,840	\$350	\$7,190	18	\$17,280	\$350	\$17,630
19	\$7,220	\$350	\$7,570	19	\$18,240	\$350	\$18,590
20	\$7,600	\$350	\$7,950	20	\$19,200	\$350	\$19,550

Course Descriptions

Computer Science..... 631

Degrees & Programs

Computer Science, M.C.S.

Requirements

The Master of Computer Science (MCS) at Utah Valley University is an applied graduate program resulting in a professional degree. Students graduating with this degree will have a broad grounding in computer science as a discipline and be well equipped to take on leadership roles in a wide range of computing technology-related industries. Student education will be focused on developing software systems using current technologies while allowing them the freedom to explore and exploit new technologies to solve real-world problems. Students will be required to develop a broad base of competency by passing required courses in large scale implementation, applied

Computer Science Graduate Programs

mathematics computing, information management, and software engineering. Electives will allow a student to continue to add breadth to their education or allow them to focus on specific areas of computer science they find interesting or feel will best advance their professional objectives.

Total Program Credits: 30

Matriculation Requirements:			
<p>1. Application for admission to the MCS will include letters of recommendation and a statement of purpose.</p> <p>2. Applicants must have an overall grade point average in their undergraduate work of 3.0 or higher on a 4.0 scale.</p> <p>3 For international students whose native language is not English, a TOEFL score of 80 iBT (550 pBT) or higher, or an IELTS band score of 6.5 or higher within the past two years, is required.</p> <p>4. Applicants with a bachelor's degree in a computer-related field (Computer Science, Computer Engineering, Software Engineering, or a closely related field) who have completed the following courses (or equivalent courses from other institutions) with a C+ or better will be deemed to have the fundamental computer science background to enter the program:</p> <ul style="list-style-type: none"> • CS 2300 Discrete Structures I • CS 2420 Introduction to Algorithms and Data Structures • CS 2810 Computer Organization and Architecture • CS 3060 Operating Systems Theory • MATH 1210 Calculus I <p>5. Applicants found lacking in fundamental computer science background can be conditionally admitted to the MCS. Conditionally admitted students will have an individualized MCS Leveling Plan (MCS LP) developed for them by the Computer Science Graduate Committee. Once the MCS LP has been met by the applicant, the applicant will be deemed to have the fundamental computer science background to enter the program. Graduate policy precludes conditionally admitted students from taking 6000 level courses.</p> <p>6. Applicants found lacking in fundamental computer science background can be conditionally admitted to the MCS. Conditionally admitted students will have an individualized MCS Leveling Plan (MCS LP) developed for them by the Computer Science Graduate Committee. Once the MCS LP has been met by the applicant, the applicant will be deemed to have the fundamental computer science background to enter the program. Graduate policy precludes conditionally admitted students from taking 6000 level courses.</p> <p>7. All applicants will be subject to the approval of the Computer Science Graduate Committee.</p>			
Discipline Core Requirements:		24 Credits	
	CS 6150	Advanced Algorithms	3
	CS 6300	Software Engineering Leadership	3
	CS 6400	Modern Databases	3
	CS 6500	Software Architecture	3
	CS 6510	Design and Simulation of Operating Systems	3
	CS 6600	Graduate Project I	3
	CS 6610	Graduate Project II	3
	CS 6700	Advanced Mathematics for Computer Science	3
Elective Requirements:			6 Credits

Electives: Pick 2 Courses, or other departmental approved electives			6
	CS 6100	Database Management System Construction (3.0)	
	CS 6470	Machine Learning (3.0)	
	CS 6620	Advanced Data Mining and Visualization (3.0)	
	CS 6730	Advanced Embedded Systems Engineering (3.0)	
	CS 6800	Computer Graphics (3.0)	

Graduation Requirements:

1. Completion of all courses with a grade of B- or better.
2. Graduate project proposal presented to and accepted by the student's Advisory Committee.
3. Completion and defense of graduate project (CS 6600 and CS 6610); defense must be accepted by the student's Advisory Committee.
4. Completion of all required courses and elective courses for a total of 30 credit hours with an average GPA of 3.0 or higher.

Computer Science, M.C.S.

Careers

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Information Security Analysts
- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software
- Web Developers
- Computer Network Support Specialists
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Concurrent Enrollment

Name:	Concurrent Enrollment
Location:	EE 207
Telephone:	801-863-8376
Email:	concurrent@uvu.edu
Web Address:	uvu.edu/concurrent
Director:	Guillermo Caldera

Director: Guillermo Caldera

- **Office:** EE 209a
- **Telephone:** 801-863-8939
- **Email:** GCaldera@uvu.edu

Associate Director: TBA

- **Office:** EE 207
- **Telephone:** 801-863-8376
- **Email:**

Concurrent Enrollment is a Utah Valley University High School partnership program, where qualified high school students can earn college credit prior to high school graduation.

On-site

These classes are taught at the high school campuses during the normal school day. Courses are taught by UVU-approved, high school instructors who meet the same academic requirements for faculty teaching at UVU. Students officially apply to UVU and subsequently register for courses available at their high school campus. Students pay a one-time admission fee and partial tuition based on the amount of registered credit hours. All courses are the same as those taught on the UVU campus including applicable prerequisites, course syllabus, course curriculum, modes of instruction, and assessment. An official high school transcript and a permanent college transcript are generated for all Concurrent Enrollment courses.

A site coordinator is provided at each high school to assist students in course selection and the registration process.

Live interactive

Many courses are delivered by interactive television and internet from UVU classrooms and faculty to high school sites throughout the state. These courses are broadcast during the normal school day. Students officially apply to UVU and register for Live-interactive courses available at their high school campus. Students pay a one-time admission fee, lab and textbook fees, and partial tuition based on the amount of registered credit hours. Students are held to the same standards of achievement as those expected of students in UVU campus sections. An official high school transcript and a permanent college transcript are generated for all Live-interactive courses.

Construction Technologies

Name:	Construction Technologies
Location:	GT 610d
Telephone:	801-863-8500
Email:	ConstructionTechnologies@uvu.edu
Web Address:	uvu.edu/ct
Chair:	Robert Warcup

Mission Statement

Our mission is to provide a dynamic opportunity for engaged learning through a variety of certificate and degree programs that foster integrity, creativity, hands-on activities, and scholarly work. Success is measured by learners who leave professionally competent to build better communities through service, leadership and lifelong learning in their chosen field.

Construction Technologies

- **Department Advisor:** Allison Jensen
- **Office:** CS 635
- **Telephone:** 801-863-8138
- **Email:** Allison.Jensen@uvu.edu
- **Appointments:** appointments.uvu.edu/alisonjensen

Building Inspection Technology

- **Program Coordinator:** Fred Davis
- **Office:** GT 610g
- **Telephone:** 801-863-8861
- **Email:** Davisfr@uvu.edu

Advisory Committee:

Quinn Davis, Wasatch County Building Official; Bill Bell, Building Safety Division Manager; Donna Jackson, Midvale City Building Official; Gilbert Gonzales, Murry City Assistant Building Official; Dave Johnson, Public Works Director/Building Official.

Degree/Certificates:

- One Year Certificate
- Two Year Associate in Applied Science
- Bachelors of Science in Technology Management

Career Opportunities

Graduates of this program are better equipped to find employment in the building inspection and construction management fields. In addition, this curriculum will provide supporting instruction for those students in the Construction Technologies (CT) and the Engineering, Graphics and Design Technologies (EGDT) programs.

Reminder: An overall grade point average of 2.0 (C) or above is required for graduation.

Cabinetry & Architectural Woodwork

- **Program Coordinator:** Kelly Baird
- **Office:** GT 625b
- **Telephone:** 801-863-8860
- **Email:** Bairdke@uvu.edu

Advisory Committee:

Richard Shelley, Fetzers Architectural Woodwork; Lance Durfee, Intermountain Wood Products; Russ Lee, International Surface Fabricators; Scott Hudson, Magelby

Companies; KP Christensen, BYU Technology & Education; Dennis Bailey, Alpine School Districts; Scott Cherry, Prove School District

Degree/Certificates

- One Year Certificate
- Diploma
- Two Year Associate in Applied Science
- Two Year Associate in Science
- Bachelors of Science in Technology Management

Career Opportunities

The highly skilled craftsman in the cabinet-making field may find work in factory production, set-up, and milling, assembling, and installing highly-customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Construction Management; Clyde Institute

- **Program Coordinator:** Robert Warcup
- **Office:** GT 610a
- **Telephone:** 801-863-8167
- **Email:** Warcupro@uvu.edu

Advisory Committee:

Jeffrey R. Clyde, W.W. Clyde & Co.(Chair); Jim Golding, Geneva Rock; Trevor Hunsaker, Big D Construction; Darin Zwick, Zwick Construction; Kristen Mortensen, Chocolate Homes; Paul Magleby, Magleby Companies.

Degrees/Certificates

- Two Year Associate in Applied Science
- Two Year Associate in Science
- Bachelors of Science in Construction Management

Career Opportunities

Graduates of the four-year Construction Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators.

Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.

Facilities Management

- **Program Coordinator:** Eric Linfield
- **Office:** GT 675m
- **Telephone:** 801-863-8250
- **Email:** Eric.Linfield@uvu.edu

Advisory Committee:

Mark Woods (chairperson), Microfocus-Committee Chair; Kris Ashby, Elite Grounds; Frank Young, Utah Valley University; Matt Burk, Nuskin International; Michael Rawson, Intermountain Healthcare; Eric Linfield, UVU Program Coordinator.

Degrees/Certificates

- Two Year Associates in Applied Science
- Bachelors of Science in Technology Management

Career Opportunities

The Facilities Management program is designed to prepare graduates to manage physical facilities such as resorts, health care centers, government facilities, recreational

complexes, schools, industrial plants, and apartment buildings. Wherever there are buildings to be maintained there is a career opportunity for the facility manager.

The job of the facility manager can vary considerably depending on the employing institution, but some of the more common responsibilities are physical plant operations, building and grounds maintenance, space planning, budgets and purchasing, and human resources.

Reminder: an overall grade point average of 2.0 (C) or higher is required for graduation.

College of Technology and Computing

- **Dean:** Saeed Moaveni
- **Office:** CS 720
- **Phone:** 801-863-8237
- **Email:** saeed.Moaveni@uvu.edu

DEPARTMENT CHAIR

WARCUP, Robert Associate Professor

FACULTY

BAIRD, Kellan Associate Professor

COX, James Associate Professor

DAVIS, Ben Fred Associate Professor

ERDMANN, DeWayne Associate Professor

HALLSTED, Barry Associate Professor

LINFIELD, J. Eric Associate Professor

WARCUP, Robert Associate Professor

Course Descriptions

Building Inspection Technology.....	604
Cabinetry and Archit Woodwork.....	609
Civil Engineering.....	616
Construction Management.....	620
Facilities Management.....	702

Degrees & Programs

Building Inspection Technology, A.A.S.

Requirements

Students may earn a One-Year Certificate, an Associate in Applied Science Degree, or a Bachelor of Science Degree in Technology Management.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Total Program Credits: 64

General Education Requirements:			17 Credits
	CMGT 1150	Construction Safety	2
	COMM 1020	Public Speaking	3
	COMM 2110	Interpersonal Communication	3
	EGDT 1600	Technical Math--Algebra	3
or	MAT 1030	Quantitative Reasoning (3.0)	
	PHSC 1000	Survey of Physical Science	3
	ENGL 1010	Introduction to Writing	3
Discipline Core Requirements:			47 Credits
	BIT 1010	Building Codes	3
	BIT 1170	Field Lab--Building Codes	1
	BIT 1230	Plan Review	3

	BIT 1240	Plumbing Codes	3
	BIT 1330	Mechanical Codes	3
or	CMGT 3020	Building Envelopes and Mechanical Systems (3.0)	
	BIT 1340	Electrical Codes	3
	BIT 1380	Ride-Along Lab	1
	EGDT 1020	3D Architectural Modeling	3
	EGDT 1400	Surveying	3
	ESFO 2030	Fire Inspector I	3
	IM 2010	Business Computer Proficiency	3
or	IM 2600	Spreadsheet Applications (3.0)	
or	IM 3700	Database Applications (3.0)	
	CMGT 1010	Introduction to Construction Management	3
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 2010	Construction Materials and Methods II	3
	CMGT 1190	Concrete and Framing Lab	3
or	CMGT 281R	Internship (1.0)	
	CMGT 1220	Finishing Lab	3
or	CMGT 281R	Internship (1.0)	
	CMGT 3010	Construction Materials Testing	3

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above (department may require a higher GPA).
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.

Building Inspection Technology, A.A.S.

Careers

Careers:
Graduates of this program will be better equipped to find employment in building inspection, building construction, and construction supervision. In addition, this curriculum will provide supporting instruction for those students in the construction trades as well as architectural and engineering drafting programs.

Related Careers

- First-Line Supervisors of Construction Trades and Extraction Workers
- Construction and Building Inspectors

Cabinetry and Architectural Woodwork, A.A.S.

Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 63

General Education Requirements:			16 Credits
ENGLISH			
	ENGL 1010	Introduction to Writing	3
MATHEMATICS			

Construction Technologies

	MAT 1010	Intermediate Algebra or higher (students working towards a BS will need to take Math 1040) (4.0)	
or	ACC 1150	Fundamentals of Business Math	3
or	EGDT 1600	Technical Math--Algebra (3.0)	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE			
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		3
SOCIAL AND BEHAVIORAL SCIENCE			
	Any approved Social or Behavioral Science Distribution course		3
BIOLOGY OR PHYSICAL SCIENCE			
	Any approved Biology or Physical Science Distribution Course		3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			
	Any approved Physical Education, Health, Safety or Environment Course		1
Discipline Core Requirements:			47 Credits
	CAW 140R	Millwork Technology (4.0) ¹	16
	CAW 1130	Residential Cabinetry	4
	CAW 1150	Design Drafting and Billing	3
	CAW 1170	Finish Technology	2
	CAW 1210	Cabinetmaking Materials and Hardware	1
	CAW 1250	Drafting and Computer Applications for Cabinetmakers	4
	CAW 2250	Computer Aided Manufacturing for Woodworking	4
	CAW 2300	Counter-top Technology	3
	CAW 2430	Commercial Cabinetry Technology	4
	CAW 2450	Machine Maintenance and Upkeep	2
	CAW 299R	Skills USA	1
	EGDT 1040	Computer Aided Drafting--AutoCAD	3

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Complete all core requirements with a minimum grade of "C-" or better.

Footnote
1 Four semesters required

Cabinetry and Architectural Woodwork, A.A.S. Careers

Careers:
The highly skilled craftsman in the cabinetmaking field may find work in factory production, set-up, milling, assembling, and installing highly customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood

- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

Cabinetry and Architectural Woodwork, A.S.

Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 63

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		28 Credits
	Choose from CAW courses 1000 level or higher	11

CAW 140R	Millwork Technology (4.0) 1	12
CAW 1150	Design Drafting and Billing	3
CAW 1170	Finish Technology	2

Graduation Requirements:

1. Completion of a minimum of 63 semester credits
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote
1 Course must be repeated 3 times.

Cabinetry and Architectural Woodwork, A.S. Careers

Careers:
The highly skilled craftsman in the cabinetmaking field may find work in factory production, set-up, milling, assembling, and installing highly customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

Construction Management, A.A.S.

Requirements

Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management. The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with an emphasis on heavy civil and commercial construction. Students will learn about construction materials and methods through the use of readings, 3-D models, hands-on laboratory exercises, and site visits. Construction management courses in estimating and scheduling are also provided along with a strong background in mathematics, computer technology, business and other general education subjects. A supervisory course is also required so students can learn to manage workers at construction sites.

Total Program Credits: 63

General Education Requirements:		17 Credits
EGDT 1600	Technical Math--Algebra	3
or	MAT 1030	Quantitative Reasoning (3.0)
or	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)
ENGL 1010	Introduction to Writing	3
CMGT 1150	Construction Safety	2
	Fine Arts Distribution (EGDT1720 Architectural Rendering highly recommended or Humanities Dist COMM1020 Public Speaking)*	3
	Social Sciences Distribution (MGMT 2110 or COMM 2110 or FIN 1060) Recommended)*	3

Physical Science Distribution (PHYS 1010 or PHSC 1000 or ENVT 1110 Recommended) *		3	
Discipline Core Requirements:		37 Credits	
ACC 3000	Financial Managerial and Cost Accounting Concepts	3	
or	ACC 2010	Financial Accounting (3.0)	
and	ACC 2020	Managerial Accounting (3.0)	
	IM 2010	Business Computer Proficiency	3
or	IM 2600	Spreadsheet Applications (3.0)	
or	IM 3700	Database Applications (3.0)	
	EGDT 1400	Surveying	3
	GEO 1010	Introduction to Geology	3
	CMGT 1010	Introduction to Construction Management	3
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 1190	Concrete and Framing Lab	3
or	CMGT 1220	Finishing Lab (3.0)	
or	CMGT 281R	Internship (1.0)	
	CMGT 2010	Construction Materials and Methods II	3
	CMGT 3000	Principles of Construction Scheduling	3
	CMGT 3040	Construction Job Site Management	3
	CMGT 399R	Student Professional Organization	1
or	TECH 301R	Technology Lecture Series (1.0)	
Complete 6 credits from the following two specializations:		6	
Heavy/Civil			
	EGDT 2400	Surveying Applications (3.0)	
	EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)	
Commercial/Residential			
	BIT 1010	Building Codes (3.0)	
or	BIT 1020	Residential Codes (3.0)	
	EGDT 1020	3D Architectural Modeling (3.0)	
Elective Requirements:		9 Credits	
Complete 9 credits of advisor approved courses.		9	

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Complete all core requirements with a minimum grade of C - or better.

Footnote:
* See catalog for approved listings

Construction Management, A.A.S. Careers

Careers:
Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators. Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.

Construction Technologies

Related Careers

- Construction Managers

Facilities Management, A.A.S.

Requirements

Two options are available: An Associate in Applied Science degree and a Bachelor of Science Degree in Technology Management.

Total Program Credits: 65

General Education Requirements:		17 Credits	
	CMGT 1150	Construction Safety	2
	ENGL 1010	Introduction to Writing	3
	EGDT 1600	Technical Math--Algebra	3
or	MAT 1030	Quantitative Reasoning (3.0)	
	PHIL 2050	Ethics and Values	3
	Any approved Biology or Physical Science Distribution Course (Recommended: PHYS 1010)		3
	TECH 200G	Technology and Human Life	3
Discipline Core Requirements:		48 Credits	
	ACC 2010	Financial Accounting	3
	BIT 1010	Building Codes	3
	BIT 1230	Plan Review	3
	CMGT 1010	Introduction to Construction Management	3
	CMGT 1190	Concrete and Framing Lab	3
or	CMGT 281R	Internship (1.0)	
	CMGT 1220	Finishing Lab	3
or	CMGT 281R	Internship (1.0)	
	CMGT 3000	Principles of Construction Scheduling	3
	CMGT 3020	Building Envelopes and Mechanical Systems	3
	CMGT 3160	Building Information Modeling	3
	IM 2010	Business Computer Proficiency	3
	EGDT 1020	3D Architectural Modeling	3
	FAC 1010	Survey of Facilities Management	3
	LEGL 3130	Real Estate Principles and Finance	3
	LEGL 3140	Real Estate Law	3
	MKTG 2200	Written Business Communication	3
	MGMT 3000	Organizational Behavior	3

Graduation Requirements:

1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.

Facilities Management, A.A.S.

Careers

Careers:
The Facilities Management program is designed to prepare graduates to manage physical facilities such as resorts, health care centers, government facilities, recreational complexes, schools, industrial plants, and apartment buildings. Wherever there are buildings to be maintained there is a career opportunity for the facility

manager. The job of the facility manager can vary considerably depending on the employing institution, but some of the more common responsibilities are:

- providing environmental control such as: heating and cooling, air quality and lighting
- maintaining buildings and grounds
- approving changes in existing structures and approving plans for new facilities
- supervising personnel
- purchasing
- budgeting and accounting
- preventative maintenance and protection

Related Careers

- First-Line Supervisors of Housekeeping and Janitorial Workers
- First-Line Supervisors of Construction Trades and Extraction Workers
- Maintenance and Repair Workers, General

Building Inspection Technology, Certificate of Completion

Requirements

Students may earn a One-Year Certificate, an Associate in Applied Science Degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 31

Discipline Core Requirements:		31 Credits	
	COMM 2110	Interpersonal Communication	3
	BIT 1010	Building Codes	3
	BIT 1170	Field Lab--Building Codes	1
	BIT 1240	Plumbing Codes	3
	BIT 1330	Mechanical Codes	3
	BIT 1340	Electrical Codes	3
	BIT 1380	Ride-Along Lab	1
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 1150	Construction Safety	2
	CMGT 1190	Concrete and Framing Lab (3.0)	
or	CMGT 281R	Internship	3
	CMGT 1220	Finishing Lab (3.0)	
or	CMGT 281R	Internship	3
	CMGT 2010	Construction Materials and Methods II	3

Graduation Requirements:

1. Completion of a minimum of 31 credits.
2. Overall GPA of 2.0 or higher
3. Residency hours -- Minimum of 10 credits required through course attendance at UVU

Building Inspection Technology, Certificate of Completion Careers

Careers:
Graduates of this program will be better equipped to find employment in building inspection, building construction, and construction supervision. In addition, this curriculum will provide supporting instruction for those students in the construction trades as well as architectural and engineering drafting programs.

Related Careers

- First-Line Supervisors of Construction Trades and Extraction Workers

- Construction and Building Inspectors

Cabinetry and Architectural Woodwork, Certificate of Completion

Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 32

Discipline Core Requirements:		32 Credits
ACC 1150	Fundamentals of Business Math	3
CAW 1130	Residential Cabinetry	4
CAW 1140	Millworking and Safety Shop I	5
CAW 1150	Design Drafting and Billing	3
CAW 1170	Finish Technology	2
CAW 1210	Cabinetmaking Materials and Hardware	1
CAW 1240	Millworking Shop II	5
CAW 1250	Drafting and Computer Applications for Cabinetmakers	4
CAW 2310	Cabinetry Math	2
EGDT 1040	Computer Aided Drafting--AutoCAD	3

Graduation Requirements:

1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. Complete all courses with a minimum grade of "C-" or better.

Cabinetry and Architectural Woodwork, Certificate of Completion

Careers

Careers:
The highly skilled craftsman in the cabinetmaking field may find work in factory production, set-up, milling, assembling, and installing highly customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

Construction Management, Certificate of Completion

Requirements

A Certificate of Completion for students seeking an applied education in construction. The courses can lead the students who desire to further their education towards the AAS and/or BS degree in Construction Management.

Total Program Credits: 30

Discipline Core Requirements:		27 Credits	
CMGT 1010	Introduction to Construction Management	3	
CMGT 1020	Construction Materials and Methods I	3	
CMGT 1150	Construction Safety	2	
CMGT 1190	Concrete and Framing Lab	3	
or	CMGT 281R	Internship (For maximum of 3 credits toward graduation) (1.0)	
	CMGT 1220	Finishing Lab	3
or	CMGT 281R	Internship (For maximum of 3 credits toward graduation) (1.0)	
	CMGT 2010	Construction Materials and Methods II	3
	CMGT 399R	Student Professional Organization (0.5)	1
	IM 2010	Business Computer Proficiency	3
	EGDT 1400	Surveying Applications and Field Techniques I	3
Complete one of the following:		3	
	EGDT 1600	Technical Math--Algebra	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Elective Requirements:		3 Credits	
	BIT 1010	Building Codes (Recommended for students interested in commercial construction) (3.0)	3
or	BIT 1020	Residential Codes (Recommended for students interested in residential construction) (3.0)	
or	EGDT 2400	Surveying Applications and Field Techniques II (Recommended for students interested in heavy civil/highway construction) (3.0)	

Graduation Requirements:

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C-.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Construction Management, Certificate of Completion

Careers

Careers:
Graduates of this program will be better equipped to find employment as construction project foremen, crew leaders and entry positions in job supervision.

Related Careers

- Construction Managers

Cabinetry and Architectural Woodwork, Diploma

Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

Total Program Credits: 49

Discipline Core Requirements:		49 Credits
CAW 1130	Residential Cabinetry	4
CAW 140R	Millwork Technology (1-Required 4 times)	16
CAW 1150	Design Drafting and Billing	3
CAW 1170	Finish Technology	2
CAW 1210	Cabinetmaking Materials and Hardware	1
CAW 1250	Drafting and Computer Applications for Cabinetmakers	4
CAW 2250	Computer Aided Manufacturing for Woodworking	4
CAW 2300	Counter-top Technology	3
CAW 2310	Cabinetry Math	2
CAW 2430	Commercial Cabinetry Technology	4
CAW 2450	Machine Maintenance and Upkeep	2
CAW 299R	Skills USA (1.0)	1
EGDT 1040	Computer Aided Drafting--AutoCAD	3

Graduation Requirements:

1. Completion of a minimum of 49 or more semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Complete all Technical Specialty courses with a minimum grade of "C-" or better.

Footnote:
1 Required 4 times

Cabinetry and Architectural Woodwork, Diploma Careers

Careers:
The highly skilled craftsman in the cabinetmaking field may find work in factory production, set-up, milling, assembling, and installing highly customized cabinetry in residences, banks, department stores, and restaurants. Other jobs may be found in furniture work, and specialized facets of the industry. Self-employment often follows short-term trade experience.

Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

Civil Engineering, B.S.

Requirements

Civil engineering is the oldest engineering discipline. The Bachelor of Science in Civil Engineering prepares graduates to apply mathematical and scientific principles to the design and supervision of infrastructure components including: buildings, roads, bridges, dams, tunnels, mass transit systems, and airports. Civil engineers are also involved in environmental studies and the design and supervision of municipal water supplies and sewage systems.

Total Program Credits: 126

Matriculation Requirements:		
1.	To be admitted to the BSCE program, a student must complete the foundation courses in Mathematics (MATH 1210, 1220, 2210, 2250); Physics (PHYS 2210, 2215, 2220, 2225); Chemistry (CHEM 1210, 1215); English (ENGL 1010, 2010); Engineering (ENGR 1000, 2010, 2030, 2140, 2160); Computer Aided Drafting (EGDT 1040), and Surveying Applications and Field Techniques I (EGDT 1400) with a minimum grade of C in these courses.	
2.	Must complete courses with a grade point average of 2.5 or above.	
3.	A student not meeting all of the admission requirements, may request in writing, a provisional admission status for a semester from the department. The provisional admission status must be approved by the civil engineering program coordinator.	
General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing Humanities Social Sciences	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
COMM 1020	Public Speaking	3
COMM 2110	Interpersonal Communication	3
Fine Arts Distribution (see published computer engineering list of GE)		3
Biology Distribution (see published computer engineering list of GE)		3
PHYS 2210	Physics for Scientists and Engineers I	4
CHEM 1210	Principles of Chemistry I	4
Discipline Core Requirements:		72 Credits
CHEM 1215	Principles of Chemistry I Laboratory	1
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1400	Surveying Applications and Field Techniques I	3
ENGR 1000	Introduction to Engineering	3

ENGR 2010	Engineering Statics	3
ENGR 2030	Engineering Dynamics	3
ENGR 2140	Mechanics of Materials	3
ENGR 2160	Introduction to Materials Science and Engineering	3
ENGR 2450	Computational Methods for Engineering Analysis	3
ENVT 1110	Introduction to Environmental Management	3
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
MATH 2250	Differential Equations and Linear Algebra	4
CIVE 3010	Introduction to Transportation Engineering	3
CIVE 3130	Structural Analysis	3
CIVE 3210	Geotechnical Engineering	3
ME 3310	Fluid Mechanics	3
CIVE 3320	Hydraulics and Hydrology	3
CIVE 3335	Civil Engineering Experimentation I	2
CIVE 4135	Civil Engineering Experimentation II	2
CIVE 4510	Civil Engineering Seminar	1
CIVE 4810	Civil Engineering Capstone I	3
CIVE 4820	Civil Engineering Capstone II	3
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
Elective Requirements:		15 Credits
Elective Courses (15 credit hours are required; two courses may be taken from Technical Elective list; at least six credit hours must be at 4000 level)		15
CIVE Elective Courses		
CIVE 3140	Structural Steel Design (3)	
CIVE 3150	Reinforced Concrete Design (3)	
CIVE 3610	Environmental Engineering (3)	
CIVE 4010	Traffic Engineering (3)	
CIVE 4020	Highway Planning and Design (3)	
CIVE 4210	Foundation Design (3)	
CIVE 4310	Storm Water Management (3)	
CIVE 4320	Open Channel Flow (3)	
ME 4420	Finite Element Methods (3)	
CIVE 4610	Water and Wastewater (3)	
CIVE 490R	Advanced Current Topics in Civil Engineering (1-3)	
Technical Elective Courses		
CMGT 2025	Heavy Civil Plans and Specifications (3)	
CMGT 3000	Principles of Construction Scheduling (3)	
CMGT 3030	Principles of Construction Estimating (3)	
CMGT 3040	Construction Job Site Management (3)	
CMGT 3050	Construction Equipment, Planning and Logistics (3)	

CMGT 3160	Building Information Modeling (3)	
CMGT 4010	Construction Contracts (3)	
CMGT 4020	Construction Project Management (3)	
CMGT 405G	Global Sustainability and the Built Environment (3)	
LEGL 3000	Business Law (3)	
ENVT 3280	Environmental Law (3)	
ENVT 3290	Environmental Permits and Reports (3)	
ENVT 3330	Water Resources Management (3)	
ENVT 3850	Environmental Policy (3)	
GEO 3000	Environmental Geochemistry (3)	
Students may also take upper level computer, electrical, and mechanical engineering classes as technical electives in consultation with their faculty advisors and approval of the department offering the courses.		

Graduation Requirements:

1. Completion of a minimum of 126 semester credits, with a minimum of 40 upper-division credits.
2. Overall grade point average of 2.5 or above, with a minimum grade of C in all discipline core and elective requirements.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU. Ten of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved CIVE courses.
4. All transfer credits must be approved in writing by UVU and the civil engineering program coordinator.
5. No more than 80 semester hours and no more than 20 hours in CIVE courses of transfer credit.
6. No more than 6 semester hours may be earned through independent study.
7. Successful completion of at least one Global/Intercultural course.

Civil Engineering, B.S.

Careers

Careers:

Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

- Architectural and Engineering Managers
- Chemical Engineers
- Engineering Teachers, Postsecondary

Construction Management, B.S.

Requirements

Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management. The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with an emphasis on heavy civil and commercial construction. Students will learn about construction materials and methods through the use of readings, 3-D models, hands-on laboratory exercises, and site visits. Construction management courses in estimating and scheduling are also provided along with a strong background in mathematics, computer technology, business and other general education subjects. A supervisory course is also required so students can learn to manage workers at construction sites.

Total Program Credits: 120

Construction Technologies

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology (Highly recommended)	3
or	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
	MAT 1030	Quantitative Reasoning	3
or	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
	Biology*		3
	Humanities	(COMM 1020 recommended)*	3
	Social Science	(MGMT 2110 or COMM 2110 or FIN 1060 Recommended)*	3
	Physical Science	(PHYS 1010 or PHSC 1000 Recommended)*	3
	Science (3rd)	(GEO 1010 or ENVT 1110 Recommended)*	3
	Fine Arts	(EGDT 1720 Recommended)*	3
Discipline Core Requirements:		76 Credits	
	CMGT 1010	Introduction to Construction Management	3
	CMGT 1150	Construction Safety	2
	CMGT 1190	Concrete and Framing Lab	3
or	CMGT 1220	Finishing Lab (3.0)	
or	CMGT 281R	Internship (1.0) (3 credits maximum towards graduation)	
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 2010	Construction Materials and Methods II	3
	CMGT 3000	Principles of Construction Scheduling	3
	CMGT 3010	Construction Materials Testing	3
	CMGT 3030	Principles of Construction Estimating	3
	CMGT 3040	Construction Job Site Management	3
	CMGT 3060	Applied Statics and Strength of Materials	3
or	EGDT 2600	Statics (3.0)	
and	EGDT 2610	Strength of Materials (3.0)	
	CMGT 3080	Construction Financial Management	3
	CMGT 399R	Student Professional Organization (Must be repeated for a total of one (1) credits minimum. Three (3) credits maximum may apply toward graduation)	1

	CMGT 4500	Senior Capstone Project	3
	CMGT 481R	Internship (1 credit required for graduation. Maximum of 3 credits may count towards graduation. Students with sufficient management experience may choose an upper division elective in CMGT, EGDT, SURV or Woodbury School of Business with department approval) (1.0)	1
	IM 2010	Business Computer Proficiency	3
or	IM 3700	Database Applications (3.0)	
	LEGL 3000	Business Law	3
	EGDT 1400	Surveying Applications and Field Techniques I	3
	EGDT 1600	Technical Math--Algebra	3
	EGDT 1610	Technical Math--Geometry/Trig	3
	ACC 3000	Financial Managerial and Cost Accounting Concepts (Highly recommended)	3
or	ACC 2010	Financial Accounting (3.0)	
and	ACC 2020	Managerial Accounting (3.0)	
Complete 21 credits from one of the following two specializations (A minimum of 5 credits must be upper division):		21	
Heavy/Civil			
	CMGT 3050	Construction Equipment, Planning and Logistics (3.0)	
	CMGT 4010	Construction Contracts (3.0)	
	CMGT 405G	Global Sustainability and the Built Environment (3.0)	
or	SURV 455G	Global Professional Ethics and Liabilities (3.0)	
	EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)	
	EGDT 2400	Surveying Applications and Field Techniques II (3.0)	
	EGDT 3500	Advanced Civil Drafting and Design (3.0)	
	ENVT 3320	Hydraulics of Water (3.0)	
or	SURV 3230	Construction and Route Surveys (3.0)	
Commercial/Residential			
	BIT 1010	Building Codes (3.0)	
or	BIT 1020	Residential Codes (3.0)	
	CMGT 3020	Building Envelopes and Mechanical Systems (3.0)	
	CMGT 3160	Building Information Modeling (3.0)	
	CMGT 4010	Construction Contracts (3.0)	
or	LEGL 3140	Real Estate Law (3.0)	
	CMGT 405G	Global Sustainability and the Built Environment (3.0)	
	EGDT 1020	3D Architectural Modeling (3.0)	
	CMGT 4020	Construction Project Management (3.0)	
or	TECH 3400	Project Management (3.0)	
Elective Requirements:		9 Credits	
Choose 9 credits from the following:		9	
	Upper division Woodbury School of Business courses.		
	Upper division Technology Management courses		

Other upper division Technical Specialty courses as approved by Department Chair	
Any upper division CMGT or EGDT courses not already completed.	

Graduation Requirements:

1. Completion of a minimum of 120 semester hours
2. A minimum of 40 credits must be upper-division (numbered 3000 or above).
3. Overall grade point average of 2.0 (C) or above
4. No grade lower than a C- in any Discipline Core or Elective course
5. Completion of GE and specified departmental requirements
6. Residency hours - Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours
7. Successful completion of at least one Global/Intercultural course.

Footnote
* See catalog for approved listings

**Construction Management, B.S.
Careers**

Careers:
<p>Graduates of the four-year Construction Management program are prepared for employment in various levels of construction project management including superintendents, project engineers, construction schedulers and estimators. Graduates of the two-year Construction Management program are prepared for employment as construction project foremen, crew leaders and entry positions in job supervision.</p>

Related Careers

- Construction Managers

Criminal Justice/Law Enforcement

Name:	Criminal Justice/Law Enforcement
Location:	EN 101
Telephone:	801-863-7230
Email:	CRIMINALJUSTICE@uvu.edu
Web Address:	uvu.edu/criminaljustice/
Chair:	Matthew L. Duffin

Mission Statement

Criminal Justice Mission

The Criminal Justice program is committed to fostering a challenging and intellectually stimulating environment that provides a broad range of interactive academic and field experiences. An understanding and appreciation of the theory, research, policy and practice of criminal justice, as a unique discipline, will be advanced. The department will promote the development of future professionals who are capable of assuming responsibility for the research, continuing scholarship and administration of the criminal justice system.

Forensic Science Mission

The Forensic Science program is committed to fostering a challenging and intellectually stimulating environment that provides a broad range of interactive academic and field experiences. An understanding and appreciation of theory, research, policy and practice of forensic science, as a unique discipline, will be advanced. The department will promote the development of future professionals who are capable of assuming responsibility for the research, continuing scholarship and administration of forensic science.

Center for National Security Studies Mission

The Center for National Security Studies (CNSS) is a nonpartisan academic institution for the instruction, analysis, and discussion of the issues related to the field of U.S. national security. The mission of the CNSS is twofold: to promote an interdisciplinary academic environment on campus that critically examines both the theoretical and practical aspects of the national security policy and practice; and to assist students in preparing for public and private sector national security careers through acquisition of subject matter expertise, analytical skills, and practical experience. The CNSS partners with local, regional, national, and international public and private sector organizations to promote this mission.

Vision Statement

The vision of the Criminal Justice Department is to become a program of choice for students in the field of Criminal Justice/Forensic Science/National Security Studies. To provide students with a critical understanding of the criminal justice system, field of forensic science, area of national security, and the society in which it functions. Additionally, we aspire to be recognized by local, state, and federal law enforcement, students, alumni, and the surrounding community for our progressive education, service, intellectual maturity, and ethical awareness.

The following values will dictate our actions in carrying out these missions:

- Academically and professionally qualified faculty.
- Superior teaching.
- Scholarly activities that enhance and strengthen teaching and the student experience.
- Continued re-evaluation, assessment, and corrections to curriculum.
- Ethical awareness and conduct.
- Cooperation, communication, and diversity across the curriculum.
- Development of sensitivity toward, and appreciation for, cultural diversity.
- Development of analytical and critical thinking skills essential to the criminal justice field.

- Advancement of analytical and critical thinking skills essential to the criminal justice field.
- Preparation for the technologically sophisticated legal environment of the 21st Century.
- Advancement of the study of law/science within the context of an interdisciplinary liberal arts education.

The following strategies/goals are being pursued to move toward the above vision:

- Develop a comprehensive forensic curriculum in cooperation with the science department.
- Organize a Skills USA criminal justice program.
- Increase the number of students in both the criminal justice, forensic science, and national security studies programs.
- Continue curriculum improvement efforts and link assessment more closely to competencies.
- Increase rigor/scholarship across the curriculum.
- Actively participate in professional organizations.
- Promote scholarly research and development within the faculty.

Contribution to Overall UVU Mission

The departmental mission was developed to contribute to the College of Health & Public Service mission which, in turn, contributes to UVU's mission. Critical to our program is a focus on developing a curriculum, along with other departments at UVU, which prepares our students to be competent for employment or advanced education and excellence in teaching, scholarship, and community service.

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DEPARTMENT CHAIR

DUFFIN, Matthew Associate Professor

FACULTY

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- HEHNLY, Marcy** Assistant Professor
- KASSEL, Bobbi** Assistant Professor
- LOS, Richard** Lecturer
- NAISBITT, Gary** Associate Professor
- SMIDT, Michael L.** Assistant Professor
- VOGEL, Ryan J.** Assistant Professor
- WADDINGTON, Dan** Assistant Professor

Course Descriptions

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Degrees & Programs

Criminal Justice, A.A.

Requirements

Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy, an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

Total Program Credits: 60

General Education Requirements:		35 Credits
	ENGL 1010 Introduction to Writing	3
	ENGL 2020 Intermediate Writing--Science and Technology	3
	STAT 1040 Introduction to Statistics (3.0)	
or	STAT 1045 Introduction to Statistics with Algebra (5.0)	
Complete one of the following:		3
	HIST 2700 US History to 1877 (3.0)	
and	HIST 2710 US History since 1877 (3.0)	
	HIST 1700 American Civilization (3.0)	
	HIST 1740 US Economic History (3.0)	

	POLS 1000 American Heritage (3.0)	
	POLS 1100 American National Government (3.0)	
Complete the following:		
	PHIL 2050 Ethics and Values	3
	HLTH 1100 Personal Health and Wellness	2
or	PES 1097 Fitness for Life (2.0)	
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		15 Credits
	CJ 1010 Introduction to Criminal Justice	3
	CJ 1340 Criminal Investigations	3
	CJ 1350 Introduction to Forensic Science	3
	CJ 1330 Criminal Law	3
	CJ 2350 Laws of Evidence	3
Elective Requirements:		10 Credits
	Foreign Language	8
	Any 1000-level course or higher	2

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU
4. For the AA degree, completion of 8 credit hours of course work from one language.
5. Must have a grade of C- or higher in all core and elective requirements.

Criminal Justice, A.A.

Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Criminal Justice, A.S.

Requirements

Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy, an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

[Online Degree Plan](#)

Criminal Justice/Law Enforcement

Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
STAT 1040	Introduction to Statistics (3.0)	3
or STAT 1045	Introduction to Statistics with Algebra (5.0)	3
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		15 Credits
CJ 1010	Introduction to Criminal Justice	3
CJ 1340	Criminal Investigations	3
CJ 1350	Introduction to Forensic Science	3
CJ 1330	Criminal Law	3
CJ 2350	Laws of Evidence	3
Elective Requirements:		10 Credits
Electives may consist of any Criminal Justice (CJ) course that is not part of the core requirements.		10

Graduation Requirements:

1. Completion of a minimum of 60 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements.
5. Must have a grade of C- or higher in all core and elective requirements.

Criminal Justice, A.S.

Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border

Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Intelligence Studies, A.S.

Requirements

The Associate of Science in Intelligence Studies exposes students to the wide range of theoretical and functional issues related to the field of military intelligence. Students are prepared for employment in the intelligence field. This degree is limited to students participating in the Utah National Guard's (UNG) military intelligence education program at Camp Williams in Bluffdale, Utah.

Total Program Credits: 60

Matriculation Requirements:	
Students in the AS program must be admitted to the Utah National Guard's Military Intelligence Education program and admitted to UVU.	
General Education Requirements:	
35 Credits	
ENGL 1010	Introduction to Writing
ENGL 2020	Intermediate Writing--Science and Technology
Complete one of the following:	
STAT 1040	Introduction to Statistics (3.0)
MATH 1050	College Algebra QL (4)
MATH 1055	College Algebra with Preliminaries (5)
Complete one of the following:	
HIST 1700	American Civilization (3.0)
HIST 1740	US Economic History (3.0)
POLS 1000	American Heritage (3.0)
POLS 1100	American National Government (3.0)
Complete the following:	
PHIL 2050	Ethics and Values
HLTH 1100	Personal Health and Wellness
or PES 1097	Fitness for Life (2.0)
Distribution Courses:	
Biology	3
Physical Science	3
Additional Biology or Physical Science	3
Humanities	3
Fine Arts	3
Social/Behavioral Science	3
Discipline Core Requirements:	
15 Credits	
Any 15 credits from the Intelligence Studies course offerings.	
15	
Elective Requirements:	
10 Credits	
Elective credits, including any additional courses from the Intelligence Studies course offerings.	
10	

Graduation Requirements:

1. Students will be required to earn 60 credits in order to graduate with the AS in Intelligence Studies.

- 15 of those credits must be from Intelligence Studies (INST) classes.
- Students must also complete 35 credits of general education courses as described below and ten credits of elective courses.
- Students must have an overall grade point average of 2.0 (C) or above and a grade of C- or higher in all core and elective requirements.
- A minimum of 20 credit hours must be earned through course attendance at UVU.

Law Enforcement, Certificate of Proficiency Requirements

Utah Valley University is a sanctioned provider of the Utah Law Enforcement Academy, the basic training program for certification of law enforcement officers. The academy is divided into two modules. The first, or core, provides training required for certification of special function officers and is foundational for law enforcement and correctional officers. The second module is required for certification as a reserve or law enforcement officer.

Total Program Credits: 18

Matriculation Requirements:			
<ol style="list-style-type: none"> By permission only class. Individual must complete the State POST application. Individual must attend an application meeting/interview to have their application accepted by the director of the academy. Individual must pass the State POST Entrance Exam (NPOST). The NPOST exam is a required as part of the application. 			
Discipline Core Requirements:			18 Credits
	CJ 1800	POST Module I	7
	CJ 1810	POST Module II	11

Graduation Requirements:

- Individual must pass State POST written certification test at 80% or above to become State POST certified.
- Individual must pass State POST physical certification test at the determined State requirements.
- Completion of a minimum of 18 credits.
- Overall grade point average of 3.0 or above.
- Residency hours -- Minimum of 5 credits required through course attendance at UVU.

Law Enforcement, Certificate of Proficiency Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

National Security Studies, Certificate of Proficiency Requirements

Requirements

The NSS certificate of proficiency is aimed at students with a baccalaureate degree who are looking to re-tool or specialize in national security in order to enter or advance in a national security career. The certificate will provide an interdisciplinary program

that prepares students for and allows existing professionals to advance in public and private sector national security careers through acquisition of subject matter expertise and analytical skills. This certificate will expose students to the wide variety of critically important security challenges and issues faced in the twenty-first century, such as terrorism and cyber security, nuclear proliferation and weapons of mass destruction, piracy and global pandemics, sovereignty and the use of force, and civil liberties and the rule of law. Students will also acquire skills such as critical thinking, writing, briefing, and analysis techniques specifically tailored for the national security field, but applicable in many others. Whether students are interested in counterterrorism, homeland security, intelligence gathering and analysis, foreign relations, law and politics, diplomacy, or international development, the NSS certificate of proficiency will provide insight and skills needed to succeed in these professions.

Total Program Credits: 18

Matriculation Requirements:			
Students must have University Advanced Standing or have completed a baccalaureate degree			
Discipline Core Requirements:			12 Credits
	NSS 2010	Introduction to National Security	3
	NSS 301R	National Security Area Studies	3
	NSS 4600	National Security Law	3
	POLS 4500	International Conflict and Security	3
Elective Requirements:			6 Credits
Complete 6 credits from the following:			6
	NSS 4210	Law of War (3.0)	
	NSS 475R	Current Topics in National Security (3.0)	
	CJ 3340	Terrorism--Radical Fundamentalism and Terrorism Financing (3.0)	
	IT 2700	Information Security Fundamentals (3.0)	
	POLS 3100	Survey of International Terrorism (3.0)	
	POLS 3400	American Foreign Policy (3.0)	
	POLS 4610	International Law and Relations (3.0)	
or	Other course approved by department advisor or director.		

Graduation Requirements:

- Completion of a minimum of 18 credits.
- Overall grade point average (GPA) of 2.0
- Residency hours -- Minimum of 5 credits required through course attendance at UVU.

National Security Studies, Certificate of Proficiency Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Criminal Justice/Law Enforcement

Criminal Justice, Minor

Requirements

Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy, an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

Total Program Credits: 24

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			12 Credits
CJ 1010	Introduction to Criminal Justice		3
CJ 1340	Criminal Investigations		3
CJ 1330	Criminal Law		3
CJ 2350	Laws of Evidence		3
Elective Requirements:			12 Credits
Complete 12 credits from any CJ upper-division courses			12

Graduation Requirements:

- Overall grade point average of 2.5 (C) or above, with completion of each Criminal Justice class with a "C-" or higher.

Criminal Justice, Minor

Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Forensic Science, Minor

Requirements

Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy; an Associate in Science Degree in Criminal Justice; a Bachelor of Science Degree in Criminal Justice or a Bachelor of Science Degree in Forensic Science.

Total Program Credits: 24

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU			
Discipline Core Requirements:			15 Credits
FSCI 3400	Criminalistics		3
FSCI 3540	Forensic Trace Analysis I		3
FSCI 3720	Fingerprint Examination		3
FSCI 3820	Crime Scene Investigation Techniques I		3
FSCI 3860	Forensic Microscopy		3
Elective Requirements:			9 Credits
Complete 9 credits from any upper-division Forensic Science courses or other approved			9

electives	
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Graduation Requirements:

- Overall grade point average of 2.0 (C) or above, with completion of each Criminal Justice class with a "C-" or higher.

Forensic Science, Minor

Careers

Careers:
For those trained in forensic science, opportunities exist in local, county, and state law enforcement crime labs, commercial drug screening laboratories, Fingerprint Specialist, Criminalist, Corporate Security Forensic Scientist, Trace Evidence Examiner, Quality Assurance Officer, and other areas depending on job availability and opportunities. There are also opportunities in federal laboratories such as Food and Drug Administration; U.S. Postal Service; FBI; Alcohol, Tobacco, and Fire Arms; Department of Justice; Drug Enforcement Administration (DEA); and U.S. Army Criminal Investigation Laboratory.

Related Careers

- Forensic Science Technicians
- Criminal Justice and Law Enforcement Teachers, Postsecondary

National Security Studies, Minor

Requirements

The Minor in National Security Studies provides an interdisciplinary program that prepares students for public and private sector national security careers through acquisition of subject matter expertise and analytical skills. The minor exposes students to the wide variety of critically important security challenges and issues faced in the twenty-first century, such as terrorism and cyber security, nuclear proliferation and weapons of mass destruction, piracy and global pandemics, sovereignty and the use of force, and civil liberties and the rule of law. Students will also acquire skills such as critical thinking, writing, briefing, and analysis techniques specifically tailored for the national security field, but applicable in many others. Whether students are interested in counterterrorism, homeland security, intelligence gathering and analysis, foreign relations, law and politics, diplomacy, or international development, the Minor in National Security Studies provides the insight and skills needed to succeed in these professions.

Total Program Credits: 24

Matriculation Requirements:			
1. Admitted to bachelor degree program at UVU			
2. Students must take either CJ 1010 or POLS 1100 for matriculation			
Discipline Core Requirements:			15 Credits
Matriculation Courses:			
CJ 1010	Introduction to Criminal Justice (3.0)		3
or	POLS 1100	American National Government (3.0)	
Core Courses			
NSS 2010	Introduction to National Security		3
NSS 301R	National Security Area Studies		3
NSS 4600	National Security Law		3
NSS 475R	Current Topics in National Security (3.0)		3
Elective Requirements:			9 Credits
Complete 9 credits from the following:			9
CNST 4795	Civil Rights and Civil Liberties (3.0)		
NSS 4210	Law of War (3.0)		
CJ 3340	Terrorism--Radical Fundamentalism and Terrorism Financing (3.0)		

CJ 4160	Constitutional Criminal Rights (3.0)	
ESMG 310G	Introduction to Homeland Security (3.0)	
HIST 3440	The History of World War I (3.0)	
HIST 345G	The History of World War II (3.0)	
HIST 3460	US Military History (3.0)	
HIST 4140	Genocide in the Twentieth Century (3.0)	
HIST 430G	Violence and Social Conflict in Latin America (3.0)	
IT 2700	Information Security Fundamentals (3.0)	
MILS 259R	Current Topics in Military Science (3.0)	
MILS 4200	The Profession of Arms I (3.0)	
MILS 4210	The Profession of Arms II (3.0)	
PJST 3020	The Ethics of War and Peace (3.0)	
PJST 3100	Introduction to Human Security (3.0)	
PJST 3400	Conflict Transformation: Resolution and Sustainable Peace (3.0)	
POLS 1440	Introduction to Middle East Politics (3.0)	
POLS 2100	Introduction to International Relations (3.0)	
POLS 3100	Survey of International Terrorism (3.0)	
POLS 3210	World Diplomacy (3.0)	
POLS 3400	American Foreign Policy (3.0)	
POLS 3500	International Relations of the Middle East (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
POLS 3610	International Organization (3.0)	
POLS 4500	International Conflict and Security (3.0)	
POLS 4610	International Law and Relations (3.0)	
or	Other course approved by department advisor or director.	

National Security Studies, Minor Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Criminal Justice, B.S.

Requirements

Students in Criminal Justice may receive a Certificate of Proficiency in Law Enforcement Academy, an Associate in Science Degree in Criminal Justice, a Bachelor of Science Degree in Criminal Justice, or a Bachelor of Science Degree in Forensic Science.

[Online Degree Plan](#)

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing Humanities Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher		
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		71 Credits
CJ 1010	Introduction to Criminal Justice	3
CJ 1300	Introduction to Corrections Process	3
CJ 1330	Criminal Law	3
CJ 1340	Criminal Investigations	3
CJ 1350	Introduction to Forensic Science	3
CJ 1390	Introduction to Policing	3
CJ 2330	Juvenile Justice	3
CJ 2350	Laws of Evidence	3
CJ 3270	Criminology	3
CJ 3300	Victimology	3
CJ 3400	Drugs and Crime	3
CJ 4060	Special Problems in Criminal Justice	3
CJ 4160	Constitutional Criminal Rights	3
CJ 4200	Ethical Issues in Criminal Justice	3

Criminal Justice/Law Enforcement

CJ 4250	Criminal Justice Career Strategies	2
CJ 470G	Comparative Criminal Justice Systems	3
CJ 481R	Internship	3
CJ 4880	Qualitative Research Methods in Criminal Justice	3
CJ 4990	Criminal Justice Capstone Seminar	3
Complete 15 credits from the following Criminal Justice Electives (9 must be upper-division):		15
CJ 1800	POST Module I (7.0)	
CJ 1810	POST Module II (11.0)	
CJ 2110	Security Management and Loss Prevention (3.0)	
CJ 290R	Law Society (must be taken for a maximum of 2 credits (1.0))	
CJ 3020	Police Administration (3.0)	
CJ 3040	Community Policing (3.0)	
CJ 3060	Corrections in the Community (3.0)	
CJ 3100	Criminal Profiling (3.0)	
CJ 3140	Corrections Law (3.0)	
CJ 3320	Crime and Gender (3.0)	
CJ 3360	Prisons--Contemporary Issues and Dilemmas (3.0)	
Other Advisor Approved Electives		
Elective Requirements:		14 Credits
Complete any 1000 course or higher		14

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits with 40 semester credits from 3000- and 4000-level courses.
2. Overall grade point average of 2.0 (C) or above. Must have a grade of C- or higher in all core and elective requirements.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Criminal Justice, B.S.

Careers

Careers:
For those trained in Criminal Justice, opportunities exist in local, state, federal, and private law enforcement i.e., DEA agent, FBI agent, corrections officer, security officer, private investigator, game law enforcement officer, immigration inspector, Alcohol/Tobacco/Firearms inspector, United States Marshall, Internal Revenue officer, Border Patrol agent, Consumer Safety inspector, and other fields depending on chosen option.

Related Careers

- Managers, All Other
- Criminal Justice and Law Enforcement Teachers, Postsecondary
- First-Line Supervisors of Police and Detectives

Forensic Science - Forensic Investigation Emphasis, B.S.

Requirements

The Forensic Investigation Emphasis within the BS in Forensic Science will provide an interdisciplinary program that prepares students for public, state, and federal careers with needed forensic investigation subject matter expertise and analytical skills. This emphasis will expose students to the wide variety of critically important forensic investigation techniques, which are currently practiced within various forensic service providers and law enforcement agencies today. Students will be exposed to various techniques such as the identification and proper collection of evidence found at crime scenes, accurate crime scene documentation skills, forensic photography, death investigations, fingerprint processing/examinations, impression evidence/examination, bloodstain pattern analysis, crime scene reconstruction, firearms and tool mark evidence/examination. Students will also acquire skills such as critical thinking, writing, expert testimony, and analysis techniques specifically tailored for forensic investigation fieldwork. This emphasis will provide students with the overall professional skills, work ethic, and demeanor required of forensic investigators.

Total Program Credits: 126

General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing Humanities Social Sciences	3
Complete one of the following:		4
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1610	College Biology I	4
CHEM 1210	Principles of Chemistry I	4
CHEM 1220	Principles of Chemistry II	4
COMM 1020	Public Speaking (recommended for Humanities Distribution)	3
ART 1050	Photography I (recommended for Fine Arts Distribution)	3
CJ 1010	Introduction to Criminal Justice	3
Discipline Core Requirements:		40 Credits
Forensic Science Foundational Courses:		
CJ 1330	Criminal Law	3
CJ 1340	Criminal Investigations	3
CJ 1350	Introduction to Forensic Science	3

CJ 2350	Laws of Evidence	3
FSCI 3400	Criminalistics	3
FSCI 3880	Expert Witness Professional Practices	3
BIOL 1615	College Biology I Laboratory	1
CHEM 1215	Principles of Chemistry I Laboratory	1
CHEM 1225	Principles of Chemistry II Laboratory	1
PHYS 2010	College Physics I	4
PHYS 2015	College Physics I Lab	1
PHYS 2020	College Physics II	4
PHYS 2025	College Physics II Lab	1
FSCI 3700	Fingerprint Processing	3
FSCI 3820	Crime Scene Investigation Techniques I	3
FSCI 3860	Forensic Microscopy	3
Emphasis Requirements:		27 Credits
Complete one of the Following:		3
ZOOL 1090	Introduction to Human Anatomy and Physiology (3.0)	
ZOOL 2320	Human Anatomy (3.0)	
and ZOOL 2325	Human Anatomy Laboratory (1.0)	
Complete the Following:		
FSCI 3300	Forensic Photography	3
FSCI 3500	Footwear and Tire Mark Evidence and Examination	3
FSCI 3780	Bloodstain Pattern Analysis	3
FSCI 3800	Computer Forensics and Cyber Crime	3
FSCI 3830	Crime Scene Investigation Techniques II	3
FSCI 4100	Forensic Pathology	3
FSCI 4200	Medicolegal Death Investigations	3
FSCI 4990	Forensic Investigation Capstone	3
Emphasis Electives:		20 Credits
Complete 20 Credits from the Following (one course must be upper division):		20
FSCI 3540	Forensic Trace Analysis I (3.0)	
FSCI 3550	Forensic Trace Analysis II (3.0)	
FSCI 3720	Fingerprint Examination (3.0)	
FSCI 3850	Marijuana Identification Certificate (3.0)	
FSCI 4000	Firearms Examination (3.0)	
FSCI 443R	Directed Research in Forensic Science (2.0)	
FSCI 475R	Current Topics in Forensic Science (3.0)	
FSCI 481R	Forensic Science Internship (1.0)	
CHEM 2310	Organic Chemistry I (3.0)	
CHEM 2315	Organic Chemistry I Laboratory (1.0)	
CHEM 2320	Organic Chemistry II (4.0)	
CHEM 2325	Organic Chemistry II Laboratory (1.0)	
CHEM 3000	Analytical Chemistry (2.0)	
CHEM 3005	Analytical Chemistry Laboratory (2.0)	
CHEM 3600	Biological Chemistry (3.0)	

CHEM 3605	Biochemistry Laboratory (1.0)	
CHEM 3700	Forensic Analytical Chemistry (3.0)	
CHEM 4000	Instrumental Analysis (2.0)	
CHEM 4005	Instrumental Analysis Laboratory (2.0)	
ENGL 3300	Collaborative Communication for Technology Professions (3.0)	
GEO 3400	Forensic Geology (4.0)	
PSY 3710	Introduction to Forensic Psychology (3.0)	
CJ 470G	Comparative Criminal Justice Systems (3.0)	
Other Courses Approved by Advisor		

Graduation Requirements:

1. Completion of a minimum of 126 or more semester credits 40 credits of which must be upper division.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Forensic Science - Forensic Investigation Emphasis, B.S.

Careers

Careers:
For those trained in Forensic Science, opportunities exist in local, county and state law enforcement crime labs, commercial drug screening laboratories, Fingerprint Specialist, Criminalist, Corporate Security Forensic Scientist, Trace Evidence Examiner, Quality Assurance Officer, and other areas depending on job availability and opportunities. There are also opportunities in federal laboratories such as Food and Drug Administration; U.S. Postal Service; FBI; Alcohol, Tobacco, and Fire Arms; Department of Justice; Drug Enforcement Administration (DEA); and U.S. Army Criminal Investigation Laboratory.

Related Careers

- Forensic Science Technicians
- Criminal Justice and Law Enforcement Teachers, Postsecondary

Forensic Science - Forensic Laboratory Emphasis, B.S.

Requirements

The Forensic Laboratory Emphasis within the BS in Forensic Science will provide students with a comprehensive science-based undergraduate education, which enables students to enter into a forensic science career. This emphasis will provide the necessary technical and theoretical knowledge, skills, and abilities of modern forensic techniques. Students will employ the theoretical and practical principles of chemistry, biology, physics, and mathematics in order to perform forensic science work commonly conducted within a crime laboratory. Science-based study and application of these principles will expose students to a stimulating academic environment conducive to scholarly inquiry. Students will gain the knowledge and ability for research-based projects and for potential improvement of the forensic community. Throughout this program, students will utilize effective written and oral communication skills required of forensic experts, as well as demonstrate work ethic, professional demeanor, reliability, and proper interpersonal skills.

Total Program Credits: 126

General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3

Criminal Justice/Law Enforcement

	ENGL 2010	Intermediate Writing Humanities Social Sciences	3
Complete one of the following:			4
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1610	College Biology I	4
	CHEM 1210	Principles of Chemistry I	4
	CHEM 1220	Principles of Chemistry II	4
	COMM 1020	Public Speaking (recommended for Humanities Distribution)	3
	ART 1050	Photography I (recommended for Fine Arts Distribution)	3
	CJ 1010	Introduction to Criminal Justice	3
Discipline Core Requirements:			40 Credits
Forensic Science Foundational Courses:			
	CJ 1330	Criminal Law	3
	CJ 1340	Criminal Investigations	3
	CJ 1350	Introduction to Forensic Science	3
	CJ 2350	Laws of Evidence	3
	FSCI 3400	Criminalistics	3
	FSCI 3880	Expert Witness Professional Practices	3
	BIOL 1615	College Biology I Laboratory	1
	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1225	Principles of Chemistry II Laboratory	1
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
	PHYS 2020	College Physics II	4
	PHYS 2025	College Physics II Lab	1
	FSCI 3700	Fingerprint Processing	3
	FSCI 3820	Crime Scene Investigation Techniques I	3
	FSCI 3860	Forensic Microscopy	3
Emphasis Requirements:			29 Credits
	MATH 1060	Trigonometry	3
	MATH 1210	Calculus I	5

	STAT 2040	Principles of Statistics	4
	CHEM 2310	Organic Chemistry I	4
	CHEM 2315	Organic Chemistry I Laboratory	1
	CHEM 2320	Organic Chemistry II	4
	CHEM 2325	Organic Chemistry II Laboratory	1
	CHEM 3000	Analytical Chemistry	2
	CHEM 3005	Analytical Chemistry Laboratory	2
	FSCI 3540	Forensic Trace Analysis I	3
Emphasis Electives:			18 Credits
Complete 18 credits from the following			18
	FSCI 3300	Forensic Photography (3.0)	
	FSCI 3500	Footwear and Tire Mark Evidence and Examination (3.0)	
	FSCI 3550	Forensic Trace Analysis II(3.0)	
	FSCI 3720	Fingerprint Examination (3.0)	
	FSCI 3780	Bloodstain Pattern Analysis (3.0)	
	FSCI 3800	Computer Forensics and Cyber Crime (3.0)	
	FSCI 3830	Crime Scene Investigation Techniques II (3.0)	
	FSCI 3850	Marijuana Identification Certificate (3.0)	
	FSCI 4000	Firearms Examination (3.0)	
	FSCI 4100	Forensic Pathology (3.0)	
	FSCI 4200	Medicolegal Death Investigations (3.0)	
	FSCI 443R	Directed Research in Forensic Science (2.0)	
	FSCI 475R	Current Topics in Forensic Science (3.0)	
	FSCI 481R	Forensic Science Internship (1.0)	
	CJ 470G	Comparative Criminal Justice Systems (3.0)	
	ENGL 3300	Collaborative Communication for Technology Professions (3.0)	
	GEO 3400	Forensic Geology (4.0)	
	PSY 3710	Introduction to Forensic Psychology (3.0)	
	CHEM 3600	Biological Chemistry (3.0)	
	CHEM 3605	Biochemistry Laboratory (1.0)	
	CHEM 3700	Forensic Analytical Chemistry (3.0)	
	CHEM 4000	Instrumental Analysis (2.0)	
	CHEM 4005	Instrumental Analysis Laboratory (2.0)	
Other Courses Approved by Advisor			

Graduation Requirements:

1. Completion of a minimum of 126 or more semester credits, 40 credits of which must be upper division.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
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Forensic Science - Forensic Laboratory Emphasis, B.S.

Careers

Careers:

For those trained in Forensic Science, opportunities exist in local, county and state law enforcement crime labs, commercial drug screening laboratories, Fingerprint Specialist, Criminalist, Corporate Security Forensic Scientist, Trace Evidence Examiner, Quality Assurance Officer, and other areas depending on job availability and opportunities. There are also opportunities in federal laboratories such as Food and Drug Administration; U.S. Postal Service; FBI; Alcohol, Tobacco, and Fire Arms; Department of Justice; Drug Enforcement Administration (DEA); and U.S. Army Criminal Investigation Laboratory.

Related Careers

- Forensic Science Technicians
- Criminal Justice and Law Enforcement Teachers, Postsecondary

Culinary Arts Institute

Name:	Culinary Arts
Location:	Canyon Park
Telephone:	801-863-8914
Email:	culinaryarts@uvu.edu
Web Address:	uvu.edu/culinary/
Chair:	Todd C. Leonard

Mission Statement

The Culinary Arts Institute is a practical teaching institute that provides opportunity and promotes student success while meeting regional educational needs.

Our program provides students with a blend of theoretical, practical, and real world educational experiences through scholarly, creative and engaged industry based learning.

We are committed to excellence and strive to provide a learning environment that maximizes student talent and potential both personally and professionally.

The Culinary Arts Institute

Mailing Address:

The Culinary Arts Institute at Canyon Park
661 East Timpanogos Parkway
Orem, UT 84097
Mail Stop 283

Email: culinaryarts@uvu.edu

Web Address: uvu.edu/culinary/

Facebook: Culinary Arts Institute at UVU

- **Advisor:** Wendy Farnsworth
- **Telephone:** (801) 863-6780 direct
- **Telephone:** (801) 863-8914 main office
- **Email:** farnswwe@uvu.edu

Program

The UVU Culinary Arts Institute (CAI) provides premier training for students interested in a career in professional cooking or baking. The program offers small, hands-on classes that focus on individualized attention and development. The Culinary Arts Institute provides experience through "engaged" industry based learning.

The Culinary Arts Institute's comprehensive course of study covers several service areas; including not only learning how to cook and bake, but key requirements to success such as; customer service, business and finance management, as well as marketing and advertising. CAI students learn how to apply these skills to a variety of food service establishments and operations. The practical and theoretical instruction covers such areas as food service safety and sanitation, professional dining room service, menu planning, nutrition and purchasing-storeroom management procedures.

While studying Culinary Arts at UVU, students gain a solid understanding of the food and beverage industry and learn the newest techniques in food and baking production; using state-of-the-art equipment in our kitchen labs. The CAI also applies real world training as students run full service, fine dining operations at Restaurant Forte, located in the UCCU Center and the Canyon Park Café, located the Culinary Arts Institute in North Orem. These industry based learning models allow students to work with a wide range of foods while directly interacting with the public. In order to get the full breadth of running their own food service establishment, students work in a variety of functions including waiting tables, purchasing, preparing food, hosting, and supervising as the head chef.

DEPARTMENT CHAIR

LEONARD, Todd Associate Professor

FACULTY

FALLIS, Diana Associate Professor

FRANCOM, Kenneth Assistant Professor

LEONARD, Todd Associate Professor

RODDY, Meghan Associate Professor

SPROUL, Peter Associate Professor

THOMAS, John Associate Professor

WILSON, Troy Associate Professor

Course Descriptions

Culinary Arts..... 607

Degrees & Programs

Culinary Arts, A.A.S.

Requirements

The Culinary Arts Institute (CAI) at UVU provides premier training for students interested in a career in professional cooking or baking. The program offers small, hands-on classes, focusing on individualized attention and development. The Culinary Arts Institute provides experience, through "engage" industry based learning.

The Culinary Arts Institutes comprehensive course of study covers several service areas; including not only learning how to cook and bake, but key requirement to success such as; customer service, business and finance management, marketing and advertising. CAI students learn how to apply these skills to a variety of food service establishments and operations. The practical and theoretical instruction covers such areas as food service safety and sanitation, professional dining room service, menu planning, nutrition and purchasing-storeroom management procedures.

While studying Culinary Arts at UVU, students gain a solid understanding of the food and beverage industry and learn the newest techniques in food and baking production using state-of-the-art equipment in our kitchen labs. The CAI also applies real world training as students run, full service, fine dining operations at Restaurant Forte, located in the UCCU Center and the Canyon Park Café located the Culinary Arts Institute in North Orem. These industry based learning models allow students to work with a wide range of foods while directly interacting with the public. In order to get the full breadth of running their own food service establishment, students work in a variety of functions including waiting tables, purchasing, preparing food, hosting, and supervising as the head chef.

Total Program Credits: 68

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Completion of the following courses with a grade of C- or better. CA 1160; CA 1490 (including ServSafe certification); HM 1010; MAT 0990; ENGH 1000. 2. Acceptance into the Culinary Arts Institute by completion of application process (see Advisor for specific details). 3. Overall GPA: 2.0 or better. 		
General Education Requirements:		16 Credits
ENGLISH		
ENGL 1010	Introduction to Writing	3
MATHEMATICS		
ACC 2010	Financial Accounting	3
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		
PHIL 2050	Ethics and Values (or any approved Humanities/Fine Arts/Foreign Language)	3
SOCIAL AND BEHAVIORAL SCIENCE		

	MGMT 3000	Organizational Behavior (or any approved Social and Behavioral Science)	3
BIOLOGY OR PHYSICAL SCIENCE			
	CA 1150	Nutrition and Food Service	3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			
	CA 1490	Food Service Sanitation (or PES 1097, or HLTH 1100)	1
Discipline Core Requirements:			52 Credits
	CA 1120	Cooking Skills Development	4.5
	CA 1140	Professional Dining Room Services	1
	CA 1160	Culinary Math	1
	CA 1170	Pastry and Baking Skills	4.5
	CA 1180	Professional Kitchen Garde Manger	4.5
	CA 1230	Professional Kitchen I--Cooking	4.5
	CA 1260	Culinary Spanish	1
	CA 1310	Purchasing and Storeroom Management	3
	CA 1320	Culinary Management	3
	CA 2120	Professional Kitchen II--Restaurant	4.5
	CA 2130	Advanced Pastry Baking	4.5
	CA 2450	Menu Design	2
	CA 282R	Culinary Arts Internship	8
	HM 1010	Introduction to Hospitality Industry	3
	HM 3640	Food and Beverage Controls	3

Resort areas
Cruise ships
Recipe writer
Food critic
Food stylist

Related Careers

- Chefs and Head Cooks
- First-Line Supervisors of Food Preparation and Serving Workers
- Cooks, Private Household
- Cooks, Restaurant
- Cooks, All Other

Graduation Requirements:

1. Completion of a minimum of 68 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade below a "C-" in culinary arts or other discipline core courses.
3. Residency hours- minimum of 20 credit hours through course attendance at UVU.

Note: Students are responsible for completing all prerequisite courses.

**Culinary Arts, A.A.S.
Careers**

Careers:
As a result of more working adults with growing disposable incomes, the culinary arts field continues to grow. Occupations for food preparation and baking/pastry chefs are available in a variety of industries.
Average income for graduates is approximately \$28,000 to \$36,000 and higher. A chef's income can range from \$44,000 to \$46,000 (Income figures are based on graduate placement). The national Restaurant Association notes the average salary across the country for chefs is \$64,000.
Graduates of the Culinary Arts institute of UVU are in high demand and are recruited by owners and managers of well-known facilities throughout the country.
Restaurants
Hotels
Private clubs
Personal Chef
Schools and hospitals
Government dining facilities
Industrial dining facilities

Cybersecurity Graduate Programs

College of Engineering and Technology

- **Dean:** Saeed Moaveni
- **Office:** CS 720c
- **Telephone:** 801-863-8237
- **E-mail:** Saeed.Moaveni@uvu.edu

Cybersecurity Graduate Programs

- **Department Chair:** Keith Mulbery
- **Office:** CS 601g
- **Telephone:** 801-863-8843
- **Email:** Keith.Mulbery@uvu.edu
- **Program Director:** Robert Jorgensen
- **Office:** CS 620
- **Telephone:** 801-863-5282
- **Email:** Robert.Jorgensen@uvu.edu
- **Advisor:** Julie Harps
- **Office:** CS 635
- **Telephone:** 801-863-8403
- **Email:** JHarps@uvu.edu

Utah Valley University offers post-baccalaureate programs in Cybersecurity for students who wish to complete advanced studies in the field of cybersecurity. These programs are designed to provide students with advanced technical and managerial knowledge of cybersecurity, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cybersecurity theory with hands-on education for essential applied cybersecurity techniques and tools.

Cybersecurity Graduate Certificate

The Cybersecurity Graduate Certificate program consists of 18 credits of graduate-level courses. The curriculum includes cybersecurity operations, advanced network defense, cybersecurity management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cybersecurity.

Master of Science in Cybersecurity

The Master of Science in Cybersecurity builds on the curriculum for the Cybersecurity Graduate Certificate and includes 12 additional credits including topics, such as advanced penetration testing, reverse engineering, and advanced network forensics. The program culminates with a capstone project where students showcase their skills and abilities.

Admission Requirements

Potential students must apply for admission into these programs. To be accepted, students must have completed a Bachelor's degree, preferably in Information Systems, Information Security, Information Technology, or Computer Science. However, applicants who have a Bachelor's degree in another field may be admitted to the programs if they also have at least two years of IT or cybersecurity industry experience and have completed undergraduate courses in data communication, programming, and servers.

Cybersecurity Advisory Board

- Dan Anderson, Consultant, Spectra
- Vance Checketts, High-Tech COO, Dell EMC2
- David Glod, VP of Information Security, Mountain America Credit Union
- Gary Glover, Director of Security Assessments, SecurityMetrics, Inc.
- Steve Leyba, Service Area Director, Department of Workforce Services
- Angela Madsen, Operations Manager, Department of Workforce Services
- Robert Schroeder, President, CEO, Paraben Corporation
- Justin Searle, Managing Partner, UtiliSec

Tuition Tables

[Graduate Certificate in Cybersecurity](#)

[Master of Science in Cybersecurity](#)

FACULTY

HAMDAN, Basil Assistant Professor

JORGENSEN, Robert M. Assistant Professor

Course Descriptions

Information Technology..... 737

Degrees & Programs

Cybersecurity, Graduate Certificate

Requirements

The Graduate Certificate in Cybersecurity at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cybersecurity. This program is designed to provide students with advanced technical and managerial knowledge of cybersecurity, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cybersecurity theory with hands-on education for essential applied cybersecurity techniques and tools.

The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cybersecurity operations, advanced network defense, cybersecurity management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cybersecurity.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.

Total Program Credits: 18

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Application for admission to the program. 2. Bachelor's degree required, preferably in Information Systems, Information Security, Information Technology, or Computer Science. 3. 2 years of IT or IT security industry experience (if Bachelor's degree in non-related field). 4. Completion of undergraduate courses in data communication, programming, and servers. 			
Discipline Core Requirements:			12 Credits
	IT 6300	Principles of Cybersecurity	3
	IT 6330	Cybersecurity Operations	3
	IT 6350	Law, Ethics, and Privacy in Cybersecurity	3
	IT 6370	Penetration Testing and Vulnerability Assessment	3
Elective Requirements:			6 Credits
Choose 6 credits from the following:			6
	IT 6660	Advanced Network Forensics (3.0)	
	IT 6740	Advanced Network Defense and Countermeasures (3.0)	

	IT 6760	Case Studies in Cybersecurity (3.0)	
	IT 6770	Cybersecurity Management (3.0)	
	IT 6780	Secure Coding (3.0)	
	or other departmental approved electives		

Graduation Requirements:

1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Cybersecurity, Graduate Certificate Careers

Cyber security is a critical part of our digitally connected lives. From the public sector to private industry, organizations are seeking cyber security professionals to protect their critical data. In addition to cyber security specialists, there is a demand for other technology and business leaders to have a solid understanding of the principles and application of cyber security.

Related Careers

- Computer and Information Systems Managers
- Information Security Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Network Support Specialists

Cybersecurity, M.S.

Requirements

The Master of Science in Cybersecurity is intended for individuals who desire to acquire additional cybersecurity knowledge, skills, and abilities in order to pursue new or advance existing careers in cybersecurity. The program is also designed for individuals who plan to pursue doctorate degrees in cybersecurity or related fields. The program focuses on the managerial and technical perspectives of cybersecurity through extensive use of case-studies and hands-on lab exercises.

Total Program Credits: 30

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Bachelor's degree with a GPA of at least 3.2 on a 4.0 scale from an accredited institution in one of the following fields*: Information Systems, Information Security, Information Technology, Computer Science. 2. Admissions essay. 3. Completed application for admission. 4. Official transcripts from all attended institutions of higher education. 5. Two letters of recommendation 			
Discipline Core Requirements:			21 Credits
	IT 6300	Principles of Cybersecurity	3
	IT 6330	Cybersecurity Operations	3
	IT 6350	Law/Ethics/Privacy in Cybersecurity	3
	IT 6370	Penetration Testing and Vulnerability Assessment	3

	IT 6740	Advanced Network Defense and Countermeasures	3
	IT 6770	Cybersecurity Management	3
	IT 6900	Cybersecurity Capstone	3
Elective Requirements:			9 Credits
Choose 9 credits from the following:			9
	IT 6660	Advanced Network Forensics (3.0)	
	IT 6750	Reverse Engineering and Malware Analysis (3.0)	
	IT 6780	Secure Coding (3.0)	
	INFO 6420	Web and Mobile Application Security (3.0)	
	or other departmental approved electives		

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher. Courses must be finished within a five-year period. No courses will apply toward graduation that are older than five years.
2. Courses must be finished within a five-year period. No courses will apply toward graduation that are older than five years.

Footnote: *Applicants who have bachelor's degrees in other fields may be admitted to the program if they have at least two years of technology or cybersecurity industry experience and have completed undergraduate courses in data communication, programming, and server administration with a grade of C+ or better. Students may also take a comprehensive exam on these topics to satisfy this admission requirement. These applications will be handled on a case-by-case basis.

Cybersecurity, M.S. Careers

Cyber security is a critical part of our digitally connected lives. From the public sector to private industry, organizations are seeking cyber security professionals to protect their critical data. In addition to cyber security specialists, there is a demand for other technology and business leaders to have a solid understanding of the principles and application of cyber security.

Related Careers

- Computer and Information Systems Managers
- Information Security Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Network Support Specialists

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
1	\$406	\$35	\$441	1	\$986	\$35	\$1,021
2	\$812	\$70	\$882	2	\$1,972	\$70	\$2,042
3	\$1,218	\$105	\$1,323	3	\$2,958	\$105	\$3,063
4	\$1,624	\$140	\$1,764	4	\$3,944	\$140	\$4,084

Cybersecurity Graduate Programs

5	\$2,030	\$175	\$2,205	5	\$4,930	\$175	\$5,105
6	\$2,436	\$210	\$2,646	6	\$5,916	\$210	\$6,126
7	\$2,842	\$245	\$3,087	7	\$6,902	\$245	\$7,147
8	\$3,248	\$280	\$3,528	8	\$7,888	\$280	\$8,168
9	\$3,654	\$315	\$3,969	9	\$8,874	\$315	\$9,189
10	\$4,060	\$350	\$4,410	10	\$9,860	\$350	\$10,210
11	\$4,466	\$350	\$4,816	11	\$10,846	\$350	\$11,196
12	\$4,872	\$350	\$5,222	12	\$11,832	\$350	\$12,182
13	\$5,278	\$350	\$5,628	13	\$12,818	\$350	\$13,168
14	\$5,684	\$350	\$6,034	14	\$13,804	\$350	\$14,154
15	\$6,090	\$350	\$6,440	15	\$14,790	\$350	\$15,140
16	\$6,496	\$350	\$6,846	16	\$15,776	\$350	\$16,126
17	\$6,902	\$350	\$7,252	17	\$16,762	\$350	\$17,112
18	\$7,308	\$350	\$7,658	18	\$17,748	\$350	\$18,098
19	\$7,714	\$350	\$8,064	19	\$18,734	\$350	\$19,084
20	\$8,120	\$350	\$8,470	20	\$19,720	\$350	\$20,070

13.0	3,679.00	350.00	4,029.00	13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50	13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00	14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50	14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00	15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50	15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00	16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50	16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00	17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50	17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00	18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50	18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00	19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50	19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00	20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50	20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00	21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50	21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00	22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50	22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00	23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50	23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00	24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50	24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00	25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

2018-19 Base Graduate-Tuition and General Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00	
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00	
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00	
2.0	566.00	70.00	636.00	2.0	1,726.00	70.00	1,796.00	
2.5	707.50	87.50	795.00	2.5	2,157.50	87.50	2,245.00	
3.0	849.00	105.00	954.00	3.0	2,589.00	105.00	2,694.00	
3.5	990.50	122.50	1,113.00	3.5	3,020.50	122.50	3,143.00	
4.0	1,132.00	140.00	1,272.00	4.0	3,452.00	140.00	3,592.00	
4.5	1,273.50	157.50	1,431.00	4.5	3,883.50	157.50	4,041.00	
5.0	1,415.00	175.00	1,590.00	5.0	4,315.00	175.00	4,490.00	
5.5	1,556.50	192.50	1,749.00	5.5	4,746.50	192.50	4,939.00	
6.0	1,698.00	210.00	1,908.00	6.0	5,178.00	210.00	5,388.00	
6.5	1,839.50	227.50	2,067.00	6.5	5,609.50	227.50	5,837.00	
7.0	1,981.00	245.00	2,226.00	7.0	6,041.00	245.00	6,286.00	
7.5	2,122.50	262.50	2,385.00	7.5	6,472.50	262.50	6,735.00	
8.0	2,264.00	280.00	2,544.00	8.0	6,904.00	280.00	7,184.00	
8.5	2,405.50	297.50	2,703.00	8.5	7,335.50	297.50	7,633.00	
9.0	2,547.00	315.00	2,862.00	9.0	7,767.00	315.00	8,082.00	
9.5	2,688.50	332.50	3,021.00	9.5	8,198.50	332.50	8,531.00	
10.0	2,830.00	350.00	3,180.00	10.0	8,630.00	350.00	8,980.00	
10.5	2,971.50	350.00	3,321.50	10.5	9,061.50	350.00	9,411.50	
11.0	3,113.00	350.00	3,463.00	11.0	9,493.00	350.00	9,843.00	
11.5	3,254.50	350.00	3,604.50	11.5	9,924.50	350.00	10,274.50	
12.0	3,396.00	350.00	3,746.00	12.0	10,356.00	350.00	10,706.00	
12.5	3,537.50	350.00	3,887.50	12.5	10,787.50	350.00	11,137.50	

Dance

Name:	Dance
Location:	LA 022
Telephone:	801-863-8610
Email:	minerel@uvu.edu
Web Address:	www.uvu.edu/dance/
Chair:	Doris Trujillo

Mission Statement

The mission of Utah Valley University Department of Dance is to foster academic and artistic excellence through an intensive technical and reflective study of dance. Anchored in a common core curriculum with several areas of emphasis, our program provides a rich and stimulating environment where students cultivate their technical, aesthetic, creative, and scholarly potential. We value superior teaching which promotes dance as an artistic and cultural expression that has the power to enrich and transform the individual, community, and society.

Dance

- **Advisor:**
- Brianna Larson
- **Telephone:** 801-863-6867

- **Ballet:**
- Jacqueline Colledge
- **Email:** colledja@uvu.edu

- **Ballroom Dance:**
- Christopher Witt
- **Email:** wittch@uvu.edu

- **Dance Education:**
- Amy Markgraf Jacobson
- **Email:** amy.markgraf@uvu.edu

- **Modern Dance:**
- Monica Campbell
- **Email:** monica.campbell@uvu.edu

Programs

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. A variety of student, pre-professional and professional companies within the department provide excellent local, national and international performing opportunities for students in formal and informal as well as, adjudicated settings. Membership in companies is by audition only.

Career Opportunities

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), performers, choreographers, dance historians and critics, administrators, dance therapists and professionals in the field of somatics, private studio owners, health and fitness consultants, researchers, notators and movement analysts.

Performing Opportunities

A variety of student, pre-professional and professional companies within the department provide excellent local, national and international performing opportunities for dance majors. Concerts are presented in formal and informal as well as, adjudicated settings. Membership in companies is by audition only.

DEPARTMENT CHAIR

TRUJILLO, Doris *Professor*

FACULTY

BANCHERO-KELLEHER, Angela *Associate Professor*

BORCHELT, Mark *Associate Professor*

CAMPBELL, Monica *Assistant Professor*

COLLEDGE, Jacqueline *Lecturer*

DEBENHAM, Kathie *Professor*

DONOHUE, Sarah *Assistant Professor*

GRAY, Heather *Lecturer*

JOHNSON, Jamie *Assistant Professor*

MARKGRAF-JACOBSON, Amy *Associate Professor*

ORTEGA, Nichole *Associate Professor*

TRUJILLO, Doris *Professor*

WILLIAMS, Christopher *Assistant Professor*

WITT, Christopher *Associate Professor*

Course Descriptions

Dance..... 636

Degrees & Programs

Dance, A.S.

Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 60

General Education Requirements:			35 Credits
ENGL 1010	Introduction to Writing		3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences		3
Complete one of the following:			3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)		
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)		
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)		
MATH 1055	College Algebra with Preliminaries (5.0)		
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)		
Complete one of the following:			3
HIST 2700	US History to 1877 (3.0)		
and HIST 2710	US History since 1877 (3.0)		

Dance

	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology (BIOL 1010 recommended)		3
	Physical Science		3
	Additional Biology or Physical Science (ZOO 1090 recommended)		3
	Humanities Distribution		3
	DANC 2110	Orientation to Dance	3
	Social/Behavioral Science		3
Discipline Core Requirements:			20 Credits
	DANC 1160	Music for Dancers	1
	DANC 127R	Ballet Technique I (2 semesters)	6
	DANC 143R	Modern Dance Technique and Theory I	3
	DANC 144R	Modern Dance Technique and Theory I	3
	DANC 1510	Intermediate Jazz Dance	1
	DANC 1610	Dance Conditioning	1
	DANC 2330	Improvisation	1
	DANC 2340	Composition	2
	DANC 265R	Fundamentals of Movement	2
or	DANC 2670	Introduction to Laban Studies	
Elective Requirements:			5 Credits
Complete 5 credits from the following:			5
	DANC 1520	Folk Dance I (1.0)	
	DANC 1530	Folk Dance II (1.0)	
	DANC 1540	Clogging I (1.0)	
	DANC 1560	African Dance I (1.0)	
	DANC 1580	Tap Dance I (1.0)	
	DANC 1620	Polynesian Dance I (1.0)	
	DANC 1700	American Social Dance I (1.0)	
	DANC 1710	International Ballroom Dance I (1.0)	
	DANC 1720	Latin Ballroom Dance I (1.0)	
	DANC 1780	Country Western Dance I (1.0)	
	DANC 1790	Country Western Dance II (1.0)	
	DANC 221R	Pointe II (1.0)	
	DANC 2250	Character Dance I (1.0)	
	DANC 2260	Character Dance II (1.0)	
	DANC 227R	Ballet Technique II (3.0)	
	DANC 243R	Modern Dance Technique and Theory II (3.0)	
	DANC 244R	Modern Dance Technique and Theory II (3.0)	
	DANC 247R	Repertory (1.0)	

	DANC 250R	Advanced Jazz Dance (2.0)	
	DANC 2560	African Dance II (1.0)	
	DANC 270R	American Social Dance II (1.0)	
	DANC 271R	International Ballroom Dance II (1.0)	
	DANC 272R	Latin Ballroom Dance II (1.0)	
	DANC 276R	Ballroom Dance Company Back-Up Team (1.0)	
	DANC 327R	Ballet Technique III (3.0)	
	DANC 346R	Synergy Dance Company (3.0)	
	DANC 370R	American Social Dance III (1.0)	
	DANC 371R	International Ballroom Dance III (1.0)	
	DANC 372R	Latin Ballroom Dance III (1.0)	
	DANC 376R	Ballroom Dance Company Back-up Tour Team (2.0)	
	DANC 429R	Utah Metropolitan Ballet Repertory (3.0)	
	DANC 476R	Ballroom Dance Company Tour Team (3.0)	

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Dance, A.S. Careers

Careers:

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Dance - Ballet Emphasis, B.F.A.

Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 120

Matriculation Requirements:

1. Completion DANC 2110, and DANC 2330 with B- or higher.
2. Ballet emphasis: Completion of DANC 227R (2 semesters), with a grade of B- or higher.
3. Modern emphasis: Completion of DANC 143R and DANC 144R with a B- or higher.
4. Pass audition, interview, and portfolio review with faculty members.

5. Cumulative GPA of 2.75 or higher.			
General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Choose one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Choose one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
	HIST 1740	US Economic History (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	BIOL 1010	General Biology (strongly recommended for Biology distribution)	3
	DANC 2110	Orientation to Dance (Fulfills Fine Arts)	3
Humanities Distribution		3	
Physical Science		3	
Social/Behavioral Science		3	
	ZOOL 1090	Introduction to Human Anatomy and Physiology (Fulfills additional Biology or Physical Science)	3
Discipline Core Requirements:		38 Credits	
	DANC 127R	Ballet Technique I	6
or	DANC 227R	Ballet Technique II (3.0)	
	DANC 143R	Modern Dance Technique and Theory I	3
	DANC 144R	Modern Dance Technique and Theory I	3
	DANC 1610	Dance Conditioning	1
	DANC 2330	Improvisation	1
	DANC 2340	Composition	2
	DANC 265R	Fundamentals of Movement	2
	DANC 2670	Introduction to Laban Studies	2
	DANC 3140	Dance Production and Lighting	2
	DANC 356G	World Dance Forms	3

	DANC 3630	Dance History	3
	DANC 3680	Dance Kinesiology	4
	DANC 4350	Senior Capstone I	1
	DANC 4360	Senior Capstone II	2
	DANC 4880	Current Issues in Dance	3
Emphasis Requirements:		42 Credits	
	DANC 221R	Pointe II (2 semesters required) (1.0)	2
or	DANC 222R	Ballet Technique and Theory II for Men (2 semesters required) (1.0)	
	DANC 2250	Character Dance I (1.0)	1
	DANC 3150	Music for Ballet Dancers (2.0)	2
	DANC 321R	Pointe III (2 semesters required) (1.0)	2
or	DANC 322R	Ballet Technique and Theory III for Men (2 semesters required) (1.0)	
	DANC 327R	Ballet Technique III (2 semesters required) (3.0)	6
	DANC 421R	Pointe IV (4 semesters required) (1.0)	4
or	DANC 423R	Pointe V (4 semesters required) (1.0)	
or	DANC 422R	Ballet Technique for Men (4 semesters required) (1.0)	
	DANC 424R	Pas de deux (2 semesters required) (1.0)	2
	DANC 425R	Repertory Ballet Ensemble (2 semesters required total) (3.0)	6
or	DANC 429R	Utah Metropolitan Ballet Repertory (2 semesters required total) (3.0)	
	DANC 3340	Ballet Choreography (2.0)	2
	DANC 427R	Ballet Technique IV (4 semesters required total) (3.0)	12
or	DANC 428R	Ballet Technique V (4 semesters required total) (3.0)	
	DANC 4260	Ballet Pedagogy	3
Emphasis Elective Requirements:		5 Credits	
Choose 5 hours from the following:			
	DANC 1160	Music for Dancers (1.0)	
	DANC 1510	Intermediate Jazz Dance (1.0)	
or	DANC 250R	Advanced Jazz Dance (2.0)	
	DANC 1700	American Social Dance I (1.0)	
	DANC 1710	International Ballroom Dance I (1.0)	
	DANC 2260	Character Dance II (1.0)	
	DANC 3610	Intermediate Dance Conditioning and Injury Prevention (2.0)	
	DANC 365R	Advanced Fundamentals of Movement (2.0)	
	DANC 3670	Movement Analysis (3.0)	
	DANC 425R	Repertory Ballet Ensemble (repeatable for 9 semesters) (3.0)	
	DANC 429R	Utah Metropolitan Ballet Repertory (repeatable for 9 semesters) (3.0)	
	THEA 1033	Acting I (3.0)	
Any DANC course not previously taken.			

Graduation Requirements:

Dance

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall GPA of 2.0 (C) or above.
3. Overall GPA of 2.5 or above in all DANC courses.
4. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Dance - Ballet Emphasis, B.F.A.

Careers

Careers:
Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Dance - Ballroom Dance Emphasis, B.S.

Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 120

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Completion of DANC 270R, DANC 271R, DANC 272R, DANC 2110, and DANC 2330 with a grade of B- or better. 2. Pass audition, interview, and portfolio review with faculty members. 3. Cumulative G.P.A. of 2.75 or higher. 			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Choose one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Choose one of the following:			3
	HIST 2700	US History to 1877 (3.0)	

and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
	HIST 1740	US Economic History (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	BIOL 1010	General Biology (strongly recommended for Biology Distribution course)	3
	DANC 2110	Orientation to Dance (Fine Arts)	3
	Humanities Distribution		3
	Physical Science		3
	Social/Behavioral Science		3
	ZOOL 1090	Introduction to Human Anatomy and Physiology (Fulfills additional Biology or Physical Science)	3
Discipline Core Requirements:			38 Credits
	DANC 127R	Ballet Technique I	6
or	DANC 227R	Ballet Technique II (3.0)	
	DANC 143R	Modern Dance Technique and Theory I	3
	DANC 144R	Modern Dance Technique and Theory I	3
	DANC 1610	Dance Conditioning	1
	DANC 2330	Improvisation	1
	DANC 2340	Composition	2
	DANC 265R	Fundamentals of Movement	2
	DANC 2670	Introduction to Laban Studies	2
	DANC 3140	Dance Production and Lighting	2
	DANC 356G	World Dance Forms	3
	DANC 3630	Dance History	3
	DANC 3680	Dance Kinesiology	4
	DANC 4350	Senior Capstone I	1
	DANC 4360	Senior Capstone II	2
	DANC 4880	Current Issues in Dance	3
Emphasis Requirements:			39 Credits
	DANC 1160	Music for Dancers	1
	DANC 1510	Intermediate Jazz Dance	1
or	DANC 250R	Advanced Jazz Dance (2.0)	
	DANC 270R	American Social Dance II	1
	DANC 370R	American Social Dance III (2 semesters required) (1.0)	2
	DANC 271R	International Ballroom Dance II	1
	DANC 371R	International Ballroom Dance III (2 semesters required) (1.0)	2
	DANC 471R	International Ballroom Dance IV (2 semesters required) (2.0)	4
	DANC 272R	Latin Ballroom Dance II	1

	DANC 372R	Latin Ballroom Dance III (2 semesters required) (1.0)	2
	DANC 472R	Latin Ballroom Dance IV (2 semesters required) (2.0)	4
	DANC 3730	American Social Dance Teaching Methods	2
	DANC 4740	International Ballroom Dance Teaching Methods	3
or	DANC 4750	Latin Ballroom Dance Teaching Methods (3.0)	
	DANC 376R	Ballroom Dance Company Back-up Tour Team (2.0)	4
or	DANC 476R	Ballroom Dance Company Tour Team (3.0)	
	DANC 3610	Intermediate Dance Conditioning and Injury Prevention	2
or	PES 2400	Sports Injuries (2.0)	
	MGMT 1010	Introduction to Business	3
	PES 2300	Introduction to Fundamentals of Athletic Coaching	2
	DANC 3740	Ballroom Dance Choreography	2
	DANC 3750	Studies in Ballroom Dance Styles	2
Emphasis Elective Requirements:			8 Credits
Choose 8 hours from the following:			8
	DANC 1560	African Dance I (1.0)	
	DANC 222R	Ballet Technique and Theory II for Men (1.0)	
	DANC 227R	Ballet Technique II (3.0)	
	DANC 3400	Dance in the Elementary School (2.0)	
	DANC 376R	Ballroom Dance Company Back-up Tour Team (2.0)	
or	DANC 476R	Ballroom Dance Company Tour Team (3.0)	
	DANC 365R	Advanced Fundamentals of Movement (2.0)	
	DANC 4740	International Ballroom Dance Teaching Methods (3.0)	
or	DANC 4750	Latin Ballroom Dance Teaching Methods (3.0)	
	EXSC 3700	Exercise Physiology (3.0)	
and	EXSC 3705	Exercise Physiology Laboratory (1.0)	
	PES 1010	Aerobics I (1.0)	
	PES 1085	Weight Training I (1.0)	
	THEA 4541	Costume Design I (4.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall GPA of 2.0 (C) or above.
3. Overall GPA of 2.5 or above in all DANC courses.
4. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Dance - Ballroom Dance Emphasis, B.S. Careers

Careers:

Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists,

professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Dance - Modern Dance Emphasis, B.F.A.**Requirements**

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 120

Matriculation Requirements:			
1.	Completion DANC 2110, and DANC 2330 with B- or higher.		
2.	Ballet emphasis: Completion of DANC 227R (2 semesters), with a grade of B- or higher.		
3.	Modern emphasis: Completion of DANC 143R and DANC 144R with a B- or higher.		
4.	Pass audition, interview, and portfolio review with faculty members.		
5.	Cumulative GPA of 2.75 or higher.		
General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Choose one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Choose one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
	HIST 1740	US Economic History (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	

Dance

Distribution Courses:			
BIOL 1010	General Biology (strongly recommended for Biology Distribution)	3	
DANC 2110	Orientation to Dance (Fulfills Fine Arts)	3	
Humanities Distribution		3	
Physical Science		3	
Social/Behavioral Science		3	
ZOOL 1090	Introduction to Human Anatomy and Physiology (Fulfills additional Biology or Physical Science)	3	
Discipline Core Requirements:		38 Credits	
DANC 127R	Ballet Technique I (3.0)	6	
or DANC 227R	Ballet Technique II (3.0)		
DANC 143R	Modern Dance Technique and Theory I	3	
DANC 144R	Modern Dance Technique and Theory I	3	
DANC 1610	Dance Conditioning	1	
DANC 2330	Improvisation	1	
DANC 2340	Composition	2	
DANC 265R	Fundamentals of Movement	2	
DANC 2670	Introduction to Laban Studies	2	
DANC 3140	Dance Production and Lighting	2	
DANC 356G	World Dance Forms	3	
DANC 3630	Dance History	3	
DANC 3680	Dance Kinesiology	4	
DANC 4350	Senior Capstone I	1	
DANC 4360	Senior Capstone II	2	
DANC 4880	Current Issues in Dance	3	
Emphasis Requirements:		39 Credits	
DANC 1160	Music for Dancers	1	
DANC 1510	Intermediate Jazz Dance	1	
or DANC 250R	Advanced Jazz Dance (2.0)		
DANC 243R	Modern Dance Technique and Theory II	3	
DANC 244R	Modern Dance Technique and Theory II	3	
DANC 3160	Dance Accompaniment	2	
DANC 3330	Modern Dance Workshop	2	
DANC 3350	Choreography	2	
DANC 3400	Dance in the Elementary School	2	
DANC 341R	Modern Dance Technique and Theory III	3	
DANC 342R	Modern Dance Technique and Theory III	3	
DANC 3450	Modern Dance Teaching Methods	3	
DANC 346R	Synergy Dance Company	6	
or DANC 446R	Contemporary Dance Ensemble		
DANC 365R	Advanced Fundamentals of Movement	2	
or DANC 3670	Movement Analysis (3.0)		
DANC 441R	Modern Dance Technique and Theory IV	3	
DANC 442R	Modern Dance Technique and Theory IV	3	
Emphasis Elective Requirements:		8 Credits	

Choose 8 credits from the following list:		8
DANC 1580	Tap Dance I (1.0)	
DANC 1600	Hip-Hop II (1.0)	
DANC 1700	American Social Dance I (1.0)	
DANC 1710	International Ballroom Dance I (1.0)	
DANC 1720	Latin Ballroom Dance I (1.0)	
DANC 2560	African Dance II (1.0)	
DANC 327R	Ballet Technique III (3.0)	
DANC 3610	Intermediate Dance Conditioning and Injury Prevention (2.0)	
DANC 365R	Advanced Fundamentals of Movement (2.0)	
DANC 3670	Movement Analysis (3.0)	
DANC 442R	Modern Dance Technique and Theory IV (3.0)	
DANC 446R	Contemporary Dance Ensemble (3.0)	
Any DANC course not previously taken		

Graduation Requirements:

1. Completion of a minimum of 120 semester credits; a minimum of 40 credits must be upper division.
2. Overall GPA of 2.0 (C) or above.
3. Overall GPA of 2.5 or above in all DANC courses.
4. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Dance - Modern Dance Emphasis, B.F.A.

Careers

Careers:
Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists, professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Dance Education, B.S.

Requirements

Students interested in pursuing a degree in dance can choose from the following degree paths: AS Pre-Major in Dance, BFA in Dance with an emphasis in Ballet or Modern Dance, BS in Dance with an emphasis in Ballroom Dance, and BS in Dance Education. In addition to career training, the Department of Dance provides opportunities for all interested students to explore the many forms of dance as elective and/or general education credit. The study of dance offers personal and cultural enrichment for majors and non-majors alike and allows students to augment their physical and theoretical skill as they study dance in relationship to the self, society, and other arts and disciplines.

Total Program Credits: 125

Matriculation Requirements:
1. Completion of DANC 1160, DANC 143R, DANC 144R, DANC 1610, DANC 2110, and DANC 2330 with B- or higher.
2. Pass audition, interview, and portfolio review with faculty members.
Education Department matriculation requirements:

1.	ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.		
2.	GPA of 3.0 or higher with no grade lower than a C in content area courses.		
3.	Completion of all General Education requirements and the majority of content area courses.		
4.	Pass group interview directed by the Secondary Teacher Education Department.		
5.	Pass LiveScan Criminal Background Check.		
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1010	General Biology (Strongly recommended)	3
	DANC 2110	Orientation to Dance (Fine Arts)	3
	Humanities		3
	Physical Science		3
	Social/Behavioral Science		3
	ZOOL 1090	Introduction to Human Anatomy and Physiology (Strongly recommended for additional Biology or Physical Science)	3
Discipline Core Requirements:			90 Credits
	DANC 1160	Music for Dancers	1
	DANC 127R	Ballet Technique I (3.0)	
or	DANC 227R	Ballet Technique II	3

DANC 143R	Modern Dance Technique and Theory I	3
DANC 144R	Modern Dance Technique and Theory I	3
DANC 1610	Dance Conditioning	1
DANC 2330	Improvisation	1
DANC 2340	Composition	2
DANC 243R	Modern Dance Technique and Theory II	3
DANC 244R	Modern Dance Technique and Theory II	3
DANC 2670	Introduction to Laban Studies	2
DANC 270R	American Social Dance II	1
DANC 3140	Dance Production and Lighting	2
DANC 3160	Dance Accompaniment	2
DANC 3330	Modern Dance Workshop	2
DANC 3350	Choreography	2
DANC 3400	Dance in the Elementary School	2
DANC 341R	Modern Dance Technique and Theory III	3
DANC 342R	Modern Dance Technique and Theory III	3
DANC 3450	Modern Dance Teaching Methods	3
DANC 346R	Synergy Dance Company	3
DANC 356G	World Dance Forms	3
DANC 3630	Dance History	3
DANC 3680	Dance Kinesiology	4
DANC 4360	Senior Capstone II	2
DANC 4430	Dance Teaching Practicum	3
Education Courses:		
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSP 3400	Exceptional Students	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10

Graduation Requirements:

1. Completion of a minimum of 125 semester credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Dance Education, B.S.**Careers**

Careers:
Those trained in dance find careers as public and private school teachers, college and university educators (requires graduate degree), professional performers and choreographers, dance historian and critics, administrators, dance therapists,

Dance

professionals in the field of somatics, researchers, notators, movement analysts, private studio owners, and health and fitness consultants.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Dancers
- Choreographers

Developmental Mathematics

Name:	Developmental Mathematics
Location:	LA 217
Telephone:	801-863-6570
Email:	Hannah.Bergeson@uvu.edu
Web Address:	uvu.edu/devmath/
Chair:	Evelyn Porter

Developmental Mathematics

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- **Evening Coordinator:** TBA
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Advisors:

- Allyson Derocher
- **Office:** LC 402f
- **Telephone:** 801-863-5829
- **Email:** Allyson.Derocher@uvu.edu

The courses offered by the Department of Developmental Mathematics are instrumental in providing a foundation not only for higher level math courses, but also for civic, professional, and personal life. The Department provides an inclusive, engaged learning environment fostering student achievement while improving quantitative literacy. The Department of Developmental Mathematics offers MAT 1000, MAT 1010, MAT 1030, and MAT 1035 as transferable, college credit classes. MAT 1000 and MAT 1010 are also offered as prerequisites for MAT 1030, STAT 1040, MATH 1050, and MATH 1090. The Department of Developmental Mathematics also offers preparatory, non-transferable courses for students who need to strengthen mathematics skills before entering credit-bearing courses.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services and innovative programs. University College welcomes students at present levels of academic achievement and challenges them with higher expectations. The programs and departments of Literacies and Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, Writing Center, Academic Tutoring, Math Lab, and First Year Experience & Student Retention promote interdisciplinary partnerships as students transition into university academics.

Dean: Forrest Williams

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Administrative Support: Beth Winkler

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- **Associate Dean:** Deborah Marrott
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- **Assistant Dean:** Jessica Awtrey
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DEPARTMENT CHAIR

WHITE, Keith Alan *Associate Professor*

FACULTY

AESCHBACHER, Max *Associate Professor*
ANDERSON, Jonathan *Associate Professor*
BACKUS, Ellen *Associate Professor*
BRINKERHOFF, Mary *Associate Professor*
BROWN, Clayton *Associate Professor*
BYE, Colleen *Assistant Professor*
CHANG, Kuo-Liang *Associate Professor*
DEAN, David *Associate Professor*
GERBER, Lindsey *Assistant Professor*
IOANE, Ofa *Associate Professor*
JARVIS, John D. *Associate Professor*
JORGENSEN, Marcus *Associate Professor*
LOFTUS, Jane *Associate Professor*
MCKENNA, Hazel J. *Professor*
MGONJA, Thomas *Assistant Professor*
MOULTON, Benjamin *Associate Professor*
PORTER, Evelyn *Associate Professor*
ROYBAL, Thomas *Assistant Professor*
SONG, Jae *Associate Professor*
WARD, Debra D. *Assistant Professor*
WHITE, Keith Alan *Associate Professor*
WIBERG, Darren *Associate Professor*

Course Descriptions

Mathematics Developmental.....748

Digital Media

Name:	Digital Media
Location:	CS 526
Telephone:	801-863-8485
Email:	schneigl@uvu.edu
Web Address:	uvu.edu/dgm
Chair:	Kim Brown

Mission Statement

Digital Media prepares students for careers in digital media. It equips students with foundation theories and procedures to develop sound multi-communication structures. It integrates: graphics, text animation, video and audio digital materials to entertain, educate, and communicate ideas through meaningful human interaction. Students in Digital Media (DGM) may earn either an AAS Degree or a Bachelor's Degree.

Digital Media

Advisors:

- Joyce Porter
- **Telephone:** 801-863-7125
- **Email:** Joyce.porter@uvu.edu
- Marianna Henry
- **Telephone:** 801-863-7125
- **Email:** Marianna.Henry@uvu.edu
-

Bachelor Admittance Requirement

Digital Media (DGM) requires all students seeking a bachelor's degree to meet or exceed certain criteria to be eligible for the program. All sophomores and transfer students will need to apply to the program by completing a Portfolio Review. Eligibility for the bachelor program requires that all students receive a B- (2.75) or above in DGM courses. Additionally, this grade threshold must be maintained throughout the bachelor degree program to remain in good standing. Upper-division courses (3000 or 4000 level) cannot be taken unless accepted into the bachelor program.

Note: All freshmen should declare their "anticipated" degree when they complete their entrance application. Students accepted into the bachelor program must re-submit a new application at which time they must declare their "official" degree.

Laptop Requirement

Laptops will be required for many of the upper-division courses. Each degree will have its own laptop specifications. Please see a Digital Media advisor for details.

DEPARTMENT CHAIR

CARD, Arlen *Associate Professor*

DEPARTMENT CO-CHAIR

HARPER, Michael F. *Associate Professor*

FACULTY

ANDERSEN, Duane *Assistant Professor*

BROWN, Kim *Associate Professor*

CARD, Arlen *Associate Professor*

CHENEY, Paul *Associate Professor*

CLAYTON, Marty J. *Assistant Professor*

ESMAY, Rodayne *Professor*

HARPER, Michael F. *Associate Professor*

HATCH, Daniel *Assistant Professor*

LANTZ, Clayton *Assistant Professor*

LISONBEE, Dennis *Associate Professor*

NIBLEY, Alex *Lecturer*

OTTO, Bill *Assistant Professor*

PETERSON, Owen *Assistant Professor*

ROMRELL, Anthony *Associate Professor*

TRIM, Robert L. *Associate Professor*

WISLAND, Michael G. *Associate Professor*

Course Descriptions

Digital Media..... 645

Degrees & Programs

Digital Communication Technology, A.A.S.

Requirements

Digital Media (DGM) fuses both fundamental theory and practical application in the production of electronically-generated content to be delivered via internet, radio and television, digital cinema, computer games, animation and cinematic visual effects, as well as for emerging technologies such as mobile computing (hand-held computing devices). The curriculum integrates these digital mediums to entertain, educate, and communicate ideas through meaningful human interaction. DGM provides motivated and dedicated students the opportunity to work closely with professionally active faculty members committed to the future of the digital disciplines. Students in Digital Media may earn either a Certificate of Proficiency in Digital Cinema, Associate in Applied Science Degree, or a Bachelor of Science Degree. Areas of emphasis include: Digital Communication Technology, Audio Production, Digital Motion Picture Production, Gaming and Animation, Internet Technologies.

Total Program Credits: 64

General Education Requirements:	17 Credits
ENGLISH	
ENGL 1010 Introduction to Writing	3
MATHEMATICS	
MAT 1010 Intermediate Algebra	4
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE	3
PHIL 2050 Ethics and Values (3.0)	
or Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	
SOCIAL AND BEHAVIORAL SCIENCE	3
Any approved Behavioral Science, Social or Political Science Distribution Course	

BIOLOGY OR PHYSICAL SCIENCE	3
Any approved Biology or Physical Science Distribution Course	
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT	1
HLTH 1100 Personal Health and Wellness (2.0)	
or Any approved PE, Safety or Health Distribution Course	
Discipline Core Requirements:	23 Credits
Complete the following:	
DGM 1110 Digital Media Essentials I	4
DGM 2110 Digital Motion Picture Essentials	3
DGM 2120 Web Essentials	3
DGM 2130 Digital Audio Essentials	3
DGM 2210 3D Modeling and Animation Essentials	4
DGM 2240 Interaction Design	3
DGM 2250 Principles of Digital Design	3
or ART 1120 2D Design (3.0)	
Elective Requirements:	24 Credits
Complete 24 credits from approved DGM electives (see advisor)	24

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Digital Communication Technology, A.A.S. Careers

Careers:
Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Digital Cinema, Certificate of Proficiency

Requirements

Digital Media (DGM) fuses both fundamental theory and practical application in the production of electronically-generated content to be delivered via internet, radio and television, digital cinema, computer games, animation and cinematic visual effects, as well as for emerging technologies such as mobile computing (hand-held computing devices). The curriculum integrates these digital mediums to entertain, educate, and communicate ideas through meaningful human interaction. DGM provides motivated and dedicated students the opportunity to work closely with professionally active faculty members committed to the future of the digital disciplines. Students in Digital Media may earn either a Certificate of Proficiency in Digital Cinema, Associate in Applied Science Degree, or a Bachelor of Science Degree. Areas of emphasis include: Digital Communication Technology, Audio Production, Digital Motion Picture Production, Gaming and Animation, Internet Technologies.

Total Program Credits: 15

Discipline Core Requirements:	15 Credits
DGM 1061 Motion Picture Editing	3
DGM 2110 Digital Motion Picture Essentials	3
DGM 1510 Film Production Analysis	3
DGM 2540 Cinematography I	3
DGM 2340 Digital Output	3

Graduation Requirements:

1. Completion of a minimum of 15 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

Digital Cinema, Certificate of Proficiency Careers

Careers:
Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Digital Media, Certificate of Proficiency

Requirements

This certificate is designed to provide high school students an opportunity to obtain a certificate of proficiency while still enrolled in high school, which not only gives initial employability skills, but also stacks into associate degrees at UVU.

Total Program Credits: 16

General Education Requirements	6 Credits
ENGL 1010 Introduction to Writing (Course must be completed with grade 'C' or higher.)	3
Complete one of the following: (Course must be completed with grade 'C' or higher.)	3
MAT 1030 Quantitative Reasoning (3)	
MAT 1035 Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040 Introduction to Statistics (3)	
STAT 1045 Introduction to Statistics with Algebra (5.0)	
MATH 1050 College Algebra (4.0)	
MATH 1055 College Algebra with Preliminaries (5.0)	
MATH 1090 College Algebra for Business (3.0)	
Discipline Core Requirements:	10 Credits
DGM 1110 Digital Media Essentials I	4
Choose one set of two courses from the following:	6
Animation and Games	

Digital Media

	DGM 1600	Scripting for Internet Technologies (3.0)	
	DGM 1620	Survey of Animation (3.0)	
Digital Cinema			
	DGM 1061	Motion Picture Editing (3.0)	
	DGM 1520	Corporate and Documentary Production (3)	
Digital Audio			
	DGM 2130	Digital Audio Essentials (3.0)	
	DGM 2460	Radio Production (3.0)	
Web Development			
	DGM 1600	Scripting for Internet Technologies (3.0)	
	DGM 2120	Web Essentials (3.0)	

Graduation Requirements:

1. Completion of a minimum of 16 semester credits.
2. Overall grade point average of 2.5 or above.
3. All DGM courses must be completed with grade 'C' or higher.
4. Residency hours-- minimum of 5 credit hours through course attendance at UVU.

Digital Media, Certificate of Proficiency Careers

Careers:
Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Digital Media, Minor

Requirements

Digital Media (DGM) fuses both fundamental theory and practical application in the production of electronically-generated content to be delivered via internet, radio and television, digital cinema, computer games, animation and cinematic visual effects, as well as for emerging technologies such as mobile computing (hand-held computing devices). The curriculum integrates these digital mediums to entertain, educate, and communicate ideas through meaningful human interaction. DGM provides motivated and dedicated students the opportunity to work closely with professionally active faculty members committed to the future of the digital disciplines. Students in Digital Media may earn either a Certificate of Proficiency in Digital Cinema, Associate in Applied Science Degree, or a Bachelor of Science Degree. Areas of emphasis include: Digital Communication Technology, Audio Production, Digital Motion Picture Production, Gaming and Animation, Internet Technologies.

Total Program Credits: 22

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:		7 Credits	
	DGM 1110	Digital Media Essentials I	4
Select one course from the following:		3	
	DGM 2110	Digital Motion Picture Essentials (3.0)	

	DGM 2120	Web Essentials (3.0)	
	DGM 2130	Digital Audio Essentials (3.0)	
	DGM 2210	3D Modeling and Animation Essentials (4.0)	
Elective Requirements:			15 Credits
Select 15 credits from approved DGM electives. See advisor for details.			15

Graduation Requirements:

1. Overall grade point average of 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
2. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Digital Media, Minor Careers

Careers:
Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Animation and Game Development, B.S. Requirements

The BS in Animation and Game Development focuses on contemporary, industry-standard, and technology oriented processes and procedures.

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3

	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution ¹	3
		Fine Arts Distribution ²	3
		Social/Behavioral Science	3
Discipline Core Requirements:			78 Credits
	DGM 1110	Digital Media Essentials I	4
	DGM 1610	Scripting for Animation and Games I	3
	DGM 1620	Survey of Animation	3
	DGM 1660	Introduction to 3D Modeling and Surfacing	3
	DGM 2210	3D Modeling and Animation Essentials	4
	DGM 2211	Rigging and Animation Essentials	3
	DGM 2221	Game Essentials	3
	DGM 2610	Game Design I	3
	DGM 2620	Principles of Animation I	3
	DGM 2640	Character Development	3
	DGM 2660	Digital Storyboarding	3
	DGM 2670	Scripting for Animation and Games II	3
	DGM 301R	Digital Lecture Series	1
	DGM 3110	Corporate Issues in Digital Media	3
	DGM 312G	Digital Media for Intercultural Communication	3
	DGM 3220	Digital Media Project Management	3
	DGM 3571	Animation Story Development Workshop	3
	DGM 3620	Principles of Animation II	3
	DGM 3650	Animation and Game Project I	3
	DGM 3660	Advanced Rigging and Character Effects	3
	DGM 3670	Scripting for Animation and Games III	3
	DGM 3680	Animation and Game Project II	3
	DGM 4310	Senior Capstone I	3
	DGM 4410	Senior Capstone II	3
	DGM 4630	Technical Direction for Animation and Game Development I	3
	DGM 4640	Technical Direction for Animation and Game Development II	3
Elective Requirements:			7 Credits

Take 7 credits from the following:		7
ART 1210	Spatial Drawing (3.0)	
ART 2250	Gestural Drawing (3.0)	
CS 1410	Object-Oriented Programming (3.0)	
DGM 2600	The Animated Image (3.0)	
DGM 281R	Internship (1.0)	
DGM 3610	Game Design II (3.0)	
DGM 3641	Game Level Design (3.0)	
DGM 4621	Performance Animation (3.0)	
DGM 481R	Internship (1.0)	
THEA 1033	Acting I (3.0)	
Or advisor approved electives		

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.

Footnotes:
1- ENGL 2200 Introduction to Literature or ENGL 2130 Science Fiction recommended
2- THEA 1023 Introduction to Film recommended

Animation and Game Development, B.S. Careers

Careers:

Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals. Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Digital Audio, B.S.

Requirements

The BS in Digital Audio allows students to study, without distraction, the physics and mathematics of audio engineering, basic audio-related electronics, recording tools and techniques, mixing tools and techniques, mastering tools and techniques, radio production, room acoustics and design, production sound for film and television, post-production sound, audio restoration (archival, historical, and forensic), and the business and marketing practices of the audio industry.

Digital Media

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
MATH 1050	College Algebra (4.0)	4
or MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts ¹		3
Social/Behavioral Science ²		3
Discipline Core Requirements:		65 Credits
DGM 1110	Digital Media Essentials I	4
MUSC 1100	Fundamentals of Music	3
PHYS 1700	Descriptive Acoustics	3
DGM 2130	Digital Audio Essentials	3
DGM 2140	Electronics for Media	3
DGM 2440	Sound for Film and Television	3
DGM 2460	Radio Production	3
DGM 2481	Digital Audio Restoration	3
DGM 2410	Core Recording Principles	3
DGM 2430	Core Mixing Principles	3
DGM 3110	Corporate Issues in Digital Media	3
DGM 312G	Digital Media for Intercultural Communication	3
COMP 301R	Digital Lecture Series	1
DGM 3220	Digital Media Project Management	3
DGM 3410	Audio Engineering for the Studio I	3
DGM 3460	Live Sound Reinforcement	3
DGM 3420	Audio Engineering for the Studio II	3
DGM 3440	Sound for Games	3
DGM 4000	Writing for Digital Media	3
DGM 4310	Senior Projects I	3

DGM 4410	Senior Projects II	3
DGM 4430	Audio Mastering	3
Elective Requirements:		19 Credits
Take 19 credits from the following including 6 upper division credits.		19
MUSC 1010	Introduction to Music (3.0)	
MUSC 1110	Music Theory I (3.0)	
MUSC 1120	Music Theory II (3.0)	
DGM 2120	Web Essentials (3.0)	
DGM 2210	3D Modeling and Animation Essentials (4.0)	
DGM 2240	Interaction Design (3.0)	
DGM 240R	Special Topics in Digital Audio (1.0)	
DGM 2490	Digital Audio Workstation Training I (3)	
DGM 2491	Digital Audio Workstation Training II (3)	
DGM 281R	Internship (1)	
DGM 340R	Advanced Topics in Digital Audio (1.0)	
DGM 3430	Recording Studio Design Principles and Practices (3.0)	
DGM 3481	Advanced Audio Restoration and Forensics (3.0)	
DGM 3490	Digital Audio Workstation Training III (3)	
DGM 3491	Digital Audio Workstation Training IV (3)	
DGM 350R	Advanced Topics in Digital Motion Picture Production (3.0)	
DGM 481R	Internship (1)	
Or other advisor approved electives		

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.

Footnote

- 1 MUSC 1010 Introduction to Music recommended.
- 2 MGMT 1010 Introduction to Business recommended

Digital Audio, B.S.

Careers

Careers:

Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators

- Graphic Designers

Digital Cinema, B.S.

Requirements

The BS Digital Cinema differs from traditional film degrees as it focuses on the new digital technologies, workflows, and production techniques that are revolutionizing the film and television industries. It covers the digital production range from corporate and educational production to narrative feature films. As an engaged learning production program it will allow students to study and practice in professional labs and workshops, which will lead to a professional portfolio upon graduation.

Total Program Credits: 120

General Education Requirements:		35 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)
	STAT 1045	Introduction to Statistics with Algebra (5.0)
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)
	MATH 1055	College Algebra with Preliminaries (5.0)
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)
	HIST 1740	US Economic History (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values 3
	HLTH 1100	Personal Health and Wellness 2
or	PES 1097	Fitness for Life (2.0)
Distribution Courses		
	Biology	3
	Physical Science ¹	3
	Additional Biology or Physical Science	3
	Humanities Distribution ²	3
	Fine Arts Distribution ³	3
	Social/Behavioral Science ⁴	3
Discipline Core Requirements:		71 Credits

DGM 1061	Motion Picture Editing	3
DGM 1500	Intro to Digital Cinema	1
DGM 1510	Film Production Analysis	3
DGM 1520	Corporate and Documentary Production	3
DGM 2110	Digital Motion Picture Essentials	3
DGM 2130	Digital Audio Essentials	3
DGM 2320	Digital Photography and Compositing I	3
DGM 2340	Digital Output for Film	3
DGM 2440	Sound for Film and Television	3
DGM 2540	Cinematography I	3
DGM 2570	Intro to Digital Storytelling	3
DGM 2661	Digital Storyboarding for Cinema	3
DGM 312G	Digital Media for Intercultural Communication	3
DGM 301R	Digital Lecture Series	1
DGM 3520	Digital Motion Picture Production	3
DGM 3530	Digital Film Production Management	3
DGM 3540	Cinematography II	3
DGM 3550	Producing I	3
DGM 3560	Post Production	3
DGM 3570	Digital Story Telling Workshop	3
DGM 3580	Digital Cinema Directing Workshop	3
DGM 4310	Senior Capstone I	3
DGM 4410	Senior Capstone II	3
DGM 4550	Producing II	3
DGM 4560	Color Grading	3
Elective Requirements:		14 Credits
Take 14 credits from the following including 6 upper division credits.		14
ACC 2010	Financial Accounting (3.0)	
ACC 2020	Managerial Accounting (3.0)	
ACC 3000	Financial Managerial and Cost Accounting Concepts (3.0)	
DGM 2210	3D Modeling and Animation Essentials (4.0)	
DGM 281R	Internship (1.0)	
DGM 3110	Corporate Issues in Digital Media (3.0)	
DGM 3320	Digital Photography and Compositing II (3.0)	
DGM 351R	Digital Broadcasting (3.0)	
DGM 3621	Hard Surface Modeling (3.0)	
DGM 454R	Cinematography Workshop (3.0)	
DGM 4630	Technical Direction for Animation and Game Development I (3.0)	
DGM 481R	Internship (1.0)	
ENTR 3170	Entrepreneurship (3.0)	
ENTR 3180	Small Business Development (3.0)	
ENTR 3190	Early-stage Financing (3.0)	
ENTR 4300	Strategic Innovation (3.0)	
THEA 1033	Acting I (3.0)	
THEA 2741	Scriptwriting I (3.0)	

Digital Media

	THEA 3113	Acting for Film (3.0)	
	THEA 3516	Art Direction for Film (3.0)	
	THEA 3611	Directing Actors for the Stage and Screen (3.0)	
	THEA 3612	Directing Actors for the Stage (3.0)	
	THEA 3614	Directing Actors for the Screen (3.0)	
	THEA 374R	New Script Workshop (3.0)	
	THEA 3741	Script Writing II (3.0)	
	THEA 4741	Scriptwriting III (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.

Footnote:	
1-	ASTR 1040 Elementary Astronomy recommended for Cinema Production
2-	ENGL 2200 Introduction to Literature or ENGL 2130 Science Fiction recommended for Cinema Production.
3-	THEA 1023 Introduction to Film recommended
4-	MGMT 1010 Introduction to Business recommended

Digital Cinema, B.S.

Careers

Careers:

Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Web Design and Development - Interaction and Design Emphasis, B.S.

Requirements

The BS in Web Design and Development allows students to study app development for mobile devices, web design, and development for mobile friendly websites, digital magazine publishing, and user experience design. In order to be successful in these areas, students need skills in design and content creation.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	

Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	

Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	

Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	

Distribution Courses		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3

Discipline Core Requirements:		47 Credits	
	DGM 1220	Digital Design Essentials	3
	DGM 1230	Interaction Design Essentials	3
	DGM 1240	Communicating Digital Design	3
	DGM 2120	Web Essentials	3
	DGM 221R	Digital Design Practicum	1
	DGM 2240	Interaction Design	3
	DGM 2250	Principles of Digital Design	3
	DGM 2271	Digital Product Design I	3
	DGM 2341	Digital Output for Mobile Media	3
	DGM 301R	Digital Lecture Series	1
	DGM 312G	Digital Media for Intercultural Communication	3
	DGM 3110	Corporate Issues in Digital Media	3
	DGM 3220	Digital Media Project Management	3
	DGM 3271	Digital Media Design II	3
	DGM 3750	Media Traffic and Analytics	3
	DGM 4310	Senior Capstone I	3

DGM 4410	Senior Capstone II	3
Emphasis Requirements:		24 Credits
DGM 2260	Immersive Authoring I	3
DGM 2270	Digital Publishing I	3
DGM 2280	Digital Effects I	3
DGM 3240	Interaction Design Colloquium	3
DGM 3260	Immersive Authoring II	3
DGM 3261	Authoring for Virtual Reality Experiences	3
DGM 3270	Digital Publishing II	3
DGM 3280	Authoring for Adaptive Media I	3
Emphasis Elective Requirements:		14 Credits
Complete 14 credits from the following		14
ART 1410	Typography I (3)	
DGM 1600	Scripting for Internet Technologies (3.0)	
DGM 2320	Digital Photography and Compositing I (3.0)	
DGM 2760	Web Languages I (3.0)	
DGM 281R	Internship (1.0)	
DGM 320R	Advanced Topics in Digital Media Design (1.0)	
DGM 3320	Digital Photography and Compositing II (3.0)	
DGM 4620	Producing Technology-based Training (3.0)	
DGM 481R	Internship (1.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.

**Web Design and Development - Interaction and Design Emphasis, B.S.
Careers**

Careers:

Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Web Design and Development - Web and App Development Emphasis, B.S.

Requirements

The BS in Web Design and Development allows students to study app development for mobile devices, web design, and development for mobile friendly websites, digital

magazine publishing, and user experience design. In order to be successful in these areas, students need skills in design and content creation.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		47 Credits
DGM 1220	Digital Design Essentials	3
DGM 1230	Interaction Design Essentials	3
DGM 1240	Communicating Digital Design	3
DGM 2120	Web Essentials	3
DGM 221R	Digital Design Practicum	1
DGM 2240	Interaction Design	3
DGM 2250	Principles of Digital Design	3

Digital Media

	DGM 2271	Digital Media Design I	3
	DGM 2341	Digital Output for Mobile Media	3
	DGM 312G	Digital Media for Intercultural Communication	3
	DGM 3110	Corporate Issues in Digital Media	3
	DGM 3220	Digital Media Project Management	3
	DGM 3271	Digital Media Design II	3
	DGM 3750	Media Traffic and Analytics	3
	DGM 4310	Senior Capstone I	3
	DGM 4410	Senior Capstone II	3
Emphasis Requirements:			28 Credits
	DGM 1600	Scripting for Internet Technologies	3
	DGM 2740	Principles of Web Languages	3
	DGM 2760	Web Languages I	3
	DGM 2780	Web Tools and Frameworks I	3
	DGM 3740	Web Content Management	3
	DGM 3760	Web Languages II	3
or	DGM 4760	Web Languages III (3.0)	
	DGM 3780	Web Tools and Frameworks II	3
	DGM 3790	Rich Internet Application Development I	3
	DGM 4790	Rich Internet Application Development II	3
	DGM 481R	Internship (1.0)	1
Emphasis Elective Requirements:			10 Credits
Complete 10 credits from the following:			10
	DGM 2260	Immersive Authoring I (3.0)	
	DGM 2270	Digital Publishing I (3.0)	
	DGM 2341	Digital Output for Mobile Media (3.0)	
	CS 1400	Fundamentals of Programming (3.0)	
or	INFO 1200	Computer Programming I for IS/IT (3.0)	
	CS 1410	Object-Oriented Programming (3.0)	
or	INFO 2200	Computer Programming II for IS/IT (3.0)	
	CS 2420	Introduction to Algorithms and Data Structures (3.0)	
	DGM 281R	Internship (1.0)	
	DGM 3261	Authoring for Virtual Reality Experiences (3.0)	
	DGM 3280	Authoring for Adaptive Media I (3.0)	
	DGM 4280	Authoring for Adaptive Media II (3.0)	
	DGM 481R	Internship (1.0)	
Or other advisor approved electives			

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation. To qualify for the portfolio review, DGM courses must be completed with a grade of B- or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements, which includes a portfolio review and acceptance into the degree.
5. Successful completion of at least one Global/Intercultural course.

Web Design and Development - Web and App Development Emphasis, B.S. Careers

Careers:

Because of extensive use of digital media in nearly every area of our lives, graduates will find themselves in demand by diverse organizations which use digital technology to communicate ideas. For example, graduates may work with medical teams to develop training materials to describe new surgical techniques to physicians, or work with a team to create an educational game. They may work as video or audio specialists on a documentary, or create an interactive web site to support a company's retail efforts or as administrative information management professionals.

Related Careers

- Web Developers
- Multimedia Artists and Animators
- Graphic Designers

Earth Science

Name:	Earth Science
Location:	PS 207
Telephone:	801-863-6295
Email:	michael.bunds@uvu.edu
Web Address:	www.uvu.edu/earthscience/
Chair:	Michael Bunds

Mission Statement

The Department of Earth Science's mission is to provide students with a rewarding and dynamic educational experience. We pride ourselves on being able to offer personal attention to the needs of students with diverse backgrounds and educational goals, and to providing students with the opportunity to learn outside of the classroom in research, service-learning and internship projects. Our four degree programs (B.S. in Geography, B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad-based science education that's ideal for students planning to continue to graduate programs in law, education, business, or health fields. We also offer a Certificate of Proficiency in Geographic Information Systems, and a Minor in Geography. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide.

Depending on the specific degree and elective courses chosen, a graduate will gain particular expertise in one or more of the following areas:

- Economic Geology
- Environmental Science
- Environmental Management
- Geochemistry
- Geographic Information Systems
- Geologic Hazards
- Geomorphology
- Hydrology
- Paleontology
- Petrology
- Tectonics

Earth Science

- **Administrative Support:** Brandi Pacchiega
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DEPARTMENT CHAIR

BUNDS, Michael P. *Associate Professor*

FACULTY

BRADFORD, Joel A. *Associate Professor*

BUNDS, Michael P. *Associate Professor*

CADET, Eddy L. *Associate Professor*

CALLISON, James *Associate Professor*

HUNGERFORD, Hilary B. *Assistant Professor*

KELLY, R. Scott *Lecturer - Placeholder*

STEARNS, Michael *Assistant Professor*

STEPHEN, Daniel A. *Associate Professor*

TOKE, Nathan *Associate Professor*

WANG, Weihong *Assistant Professor*

WHITE, Justin H. *Assistant Professor*

ZANAZZI, Alessandro *Associate Professor*

Course Descriptions

Environmental Management.....	688
Geology.....	712
Geography.....	710
Meteorology.....	752

Degrees & Programs

Physical Science, A.S.

Requirements

Total Program Credits: 63

General Education Requirements:			38 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	Biology		3
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2220	Physics for Scientists and Engineers II	4
	Humanities Distribution		3

Earth Science

	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		17 Credits
	CHEM 1210 Principles of Chemistry I	4
	CHEM 1215 Principles of Chemistry I Laboratory	1
	MATH 1210 Calculus I	5
	MATH 1220 Calculus II	5
	PHYS 2215 Physics for Scientists and Engineers I Lab	1
	PHYS 2225 Physics for Scientists and Engineers II Lab	1
Elective Requirements:		8 Credits
Complete 8 credits from the following:		8
	CHEM 1220 Principles of Chemistry II (4.0)	
	CHEM 2310 Organic Chemistry I (4.0)	
	CHEM 2315 Organic Chemistry I Laboratory (1.0)	
	CHEM 2325 Organic Chemistry II Laboratory (1.0)	
	ENGR 2450 Computational Methods for Engineering Analysis (3.0)	
	GEO 1010 Introduction to Geology (3.0)	
	GEO 1220 Historical Geology (3.0)	
	GEO 1080 Introduction to Oceanography (3.0)	
	MATH 2210 Calculus III (3.0)	
	STAT 2040 Principles of Statistics (4.0)	
	MATH 2270 Linear Algebra (3.0)	
	MATH 2280 Ordinary Differential Equations (3.0)	
	METO 1010 Introduction to Meteorology (3.0)	

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Physical Science, A.S.

Careers

Physical Science, A.S. Careers

Related Careers

- Natural Sciences Managers
- Secondary School Teachers, Except Special and Career/Technical Education

Geographic Information Systems, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Geographic Information Systems (GIS) provides students with a focused program of study in the fundamentals required to succeed in a wide range of careers in geospatial science. GIS includes the hardware, software, and data required to capture, store, display, and analyze geographically referenced information. Students in the certificate program learn the theory and methodology of geospatial data collection, storage and management, interpretation, and visualization through courses in cartography, remote sensing, GIS theory and applications, and geospatial field methods. In directed class projects students apply geospatial data techniques to real-world problems while gaining firsthand experience in project design and management.

Total Program Credits: 22

Discipline Core Requirements:		22 Credits
	GEOG 3100 Cartography	3
	GEOG 3400 Environmental Remote Sensing	3
or	SURV 2220 Photogrammetry and Remote Sensing (3.0)	
	GEOG 3600 Introduction to Geographic Information Systems	4
	GIS 3620 Advanced GIS for Geomatics	3
or	GEOG 3650 Advanced Geographic Information Systems (4.0)	
	GEOG 4100 Geospatial Field Methods	3
Complete 6 credits from the following courses:		6
	CS 1400 Fundamentals of Programming (3.0)	
	GEOG 482R GIS Internship (1-3)	
	GEOG 489R Student Research in Geography (1-4)	
	SURV 2030 Geodesy (3.0)	
	SURV 2210 Advanced Photogrammetry (3.0)	
	Or other courses with Departmental approval	

Graduation Requirements:

1. Grade point average of 2.7 or above for all courses used to satisfy requirements of the certificate combined.
2. Grade of C or higher in all courses used to satisfy requirements of the certificate.

Geographic Information Systems, Certificate of Proficiency

Careers

Earth Science, Minor Careers

Related Careers

- Managers, All Other
- Cartographers and Photogrammetrists
- Geography Teachers, Postsecondary

Water and Wastewater Operations, Certificate of Completion

Requirements

Total Program Credits: 31

Discipline Core Requirements:		22 Credits
	ENVT 1200 Environmental Worker Safety	3
	ENVT 1210 Introduction to Water Reclamation (3.0)	
or	ENVT 1360 Introduction to Water Treatment	3
	ENVT 1300 Environmental Lab and Sampling	3
	ENVT 3280 Environmental Law	3
	ENGL 1010 Introduction to Writing	3
	IM 2010 Business Computer Proficiency	3
or	Business Computer Proficiency Exam	
	MAT 1010 Intermediate Algebra	4
Elective Requirements:		9 Credits

Must take three of the following courses		9
ENVT 1270	Environmental Microbiology (3.0)	
ENVT 1510	Hazardous Materials Emergency Response (3.0)	
ENVT 3320	Hydraulics of Water (3.0)	
ENVT 3330	Water Resources Management (3.0)	
ENVT 3630	Introduction to Geographic Information Systems (4.0)	
ENVT 3790	Hydrology I (4.0)	

Graduation Requirements:

1. Completion of a minimum of 31 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- Minimum of 10 credits required through course attendance at UVU.

Water and Wastewater Operations, Certificate of Completion

Careers

Related Careers

- Water and Wastewater Treatment Plant and System Operators

Earth Science, Minor

Requirements**Total Program Credits: 23**

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		23 Credits
GEO 1010	Introduction to Geology	3
and GEO 1015	Introduction to Geology Laboratory	1
and GEO 3080	Earth Materials	4
Complete two from:		7
GEO 1020	Prehistoric Life (3.0)	
GEO 1080	Introduction to Oceanography (3.0)	
and GEO 1085	Introduction to Oceanography Laboratory (1.0)	
METO 1010	Introduction to Meteorology (3.0)	
and METO 1020	Introduction to Meteorology Laboratory (1.0)	
Complete two from:		8
GEO 3200	Geologic Hazards (4.0)	
GEO 3700	Structure and Tectonics (4.0)	
GEO 4500	Sedimentary Geology (4.0)	
GEO 4510	Paleontology (4.0)	
ENVT 3790	Hydrology I (4.0)	
GEOG 3600	Introduction to Geographic Information Systems (4.0)	

Earth Science, Minor

Careers

Earth Science, Minor Careers

Related Careers

- Natural Sciences Managers
- Geoscientists, Except Hydrologists and Geographers
- Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary

Geography, Minor

Requirements

The Minor in Geography allows students to focus on either of the major sub-disciplines of geography, namely physical geography or human geography, or to follow a broad curriculum in geography. The minor will also overlap with the coursework required of students seeking a Utah state teaching endorsement in geography.

Total Program Credits: 21

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		21 Credits
Required Courses; Complete the following:		
GEOG 1000	Introduction to Physical Geography	3
GEOG 1005	Introduction to Physical Geography Lab	1
GEOG 3100	Cartography	3
GEOG 3600	Introduction to Geographic Information Systems	4
Elective courses; complete at least 10 credits from the following list, at least six of which must be 3000-level or higher:		10
ENVT 3800	Energy Use on Earth (3.0)	
GEOG 130G	Survey of World Geography (3.0)	
GEOG 1400	Introduction to Human Geography (3.0)	
GEOG 1600	Geography of Utah (3.0)	
GEOG 2100	Geography of the United States (3.0)	
GEOG 2500	Geography of Latin America and the Caribbean (3.0)	
GEOG 3400	Environmental Remote Sensing (3.0)	
GEOG 3500	Geomorphology (4.0)	
or GEO 3200	Geologic Hazards (4.0)	
GEOG 3650	Advanced Geographic Information Systems (4.0)	
GEOG 3700	Wetland Studies (3.0)	
GEOG 4100	Geospatial Field Methods (3.0)	
At most one of the following courses may be used towards elective requirements:		
ANTH 2030	Archeological Method and Theory (3.0)	
ANTH 3850	Ethnographic Methods (3.0)	
BIOL 3700	General Ecology (3.0)	
BIOL 3800	Conservation Biology (3.0)	
BOT 4050	Plant Ecology (3.0)	
ENGL 373R	Literature of Cultures and Places (3.0)	
ENST 3000	Introduction to Environmental Studies (3.0)	
ENVT 3330	Water Resources Management (3.0)	
ENVT 3850	Environmental Policy (3.0)	
HLTH 3150	Culture Ecology and Health (3.0)	
PHIL 3530	Environmental Ethics (3.0)	
SOC 4020	Survey Research Design (3.0)	
Or other advisor-approved electives		

Graduation Requirements:

Earth Science

1. Grade point average of 2.0 or above required in all courses used to satisfy requirements of the minor.
2. Grade of C- or higher in all courses used to satisfy requirements of the minor.

Geography, Minor Careers

Related Careers

- Managers, All Other
- Geographers
- Geography Teachers, Postsecondary

Earth Science Education, B.S.

Requirements

Earth Science is the study of the Earth, including its water and atmosphere, and their relationship to humans and other living things. Earth Science applies chemistry, physics, mathematics and biology to scientific problems of the Earth. The Earth Science Education program prepares students to receive a Utah State teaching credential with an endorsement in Earth Science. Through careful choice of courses, students may also earn endorsements in the other physical sciences.

Total Program Credits: 123

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Complete the following courses: GEO 1010, GEO 1015, MATH 1050 or MATH 1055, MATH 1060, BIOL 1610 with a grade of "C" or higher in each. 2. Complete a minimum of 30 semester hours of college credit. 3. Apply to the department of Earth Science for admission. 			
Secondary Education Requirements:			
<ol style="list-style-type: none"> 1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement. 2. GPA of 3.0 or higher with no grade lower than a C in content area courses. 3. Completion of all General Education requirements and the majority of content area courses. 4. Pass group interview directed by the Secondary Teacher Education Department. 5. Pass LiveScan Criminal Background Check. 			
General Education Requirements:		27 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			

Biology*			
Physical Science*			
Additional Biology or Physical Science*			
	Humanities Distribution	3	
	Fine Arts Distribution	3	
	Social/Behavioral Science	3	
Discipline Core Requirements:		93 Credits	
	ASTR 1040	Elementary Astronomy	3
	BIOL 1010	General Biology	3
	GEOG 3700	Wetland Studies	3
or	BIOL 2500	Environmental Biology (3.0)	
	CHEM 1210	Principles of Chemistry I	4
	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1220	Principles of Chemistry II	4
	CHEM 1225	Principles of Chemistry II Laboratory	1
	GEO 1010	Introduction to Geology	3
	GEO 1015	Introduction to Geology Laboratory	1
	GEO 1220	Historical Geology	3
	GEO 1225	Historical Geology Laboratory	1
	GEO 3700	Structure and Tectonics	4
	GEO 3080	Earth Materials	3
and	GEO 3085	Earth Materials Laboratory	1
	GEO 4200	Teaching Methods in Science	3
	GEO 4500	Sedimentary Geology	4
	MATH 1060	Trigonometry	3
	METO 1010	Introduction to Meteorology	3
	METO 3100	Climate and the Earth System	3
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
	PHYS 2020	College Physics II	4
	PHYS 2025	College Physics II Lab	1
Education Courses			
	EDSC 3000	Educational Psychology	3
	EDSC 3050	Foundations of American Education	2
	EDSC 3250	Instructional Media	2
	EDSC 4200	Classroom Management I	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10
	EDSP 3400	Exceptional Students	2
Elective Requirements:		3 Credits	
Any 3 credit hours from the following list		3	
	GEO 1080	Introduction to Oceanography (3.0)	
	GEO 1085	Introduction to Oceanography Laboratory (1.0)	

GEO 202R	Science Excursion (1.0)
GEO 204R	Natural History Excursion (3.0)
GEO 3000	Environmental Geochemistry (3.0)
GEO 3100	Isotope Geochemistry (3.0)
GEO 3200	Geologic Hazards (4.0)
GEO 3500	Geomorphology (4.0)
GEO 4510	Paleontology (4.0)
METO 1020	Introduction to Meteorology Laboratory (1.0)
Or other advisor-approved electives	

Graduation Requirements:

1. Completion of a minimum of 123 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Grade of C or higher in all GEO, BIOL, and METO courses.
6. Successful completion of at least one Global/Intercultural course.

Note: *This requirement is fulfilled with the core requirements.

Earth Science Education, B.S.**Careers**

Careers:
The three degree programs offered by the Department of Earth Science (B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad science education that's ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide.
The Earth Science Education degree prepares K-12 science teachers. The degree emphasizes earth science curriculum, but many students gear their program to qualify them to teach other physical sciences and/or geography. Job prospects for graduates are outstanding, and many UVU-educated earth science teachers are making a difference in young people's lives through their work in Utah's K-12 school system.

Related Careers

- Agricultural Sciences Teachers, Postsecondary
- Biological Science Teachers, Postsecondary
- Forestry and Conservation Science Teachers, Postsecondary
- Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
- Chemistry Teachers, Postsecondary
- Environmental Science Teachers, Postsecondary
- Physics Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Environmental Science and Management, B.S.**Requirements**

Environmental Science is the study of the Earth's surface, including its water and atmosphere, with a particular focus on their relationship to humans and other living things. Environmental Science applies chemistry, physics, mathematics and biology to answer questions about the Earth and its interrelationships with living things. Environmental Management focuses on the maintenance of environmental resources,

for example water resources. Environmental scientists may conduct studies in the field, in the laboratory using advanced analytical equipment, and in the office using specialized computer software. The program is preparation for a variety of career paths, including water monitoring, treatment, and pollution control with local, state or federal agencies; environmental consulting with private industry; and other careers that draw on a background in the natural sciences, including law, public policy, and public health.

Total Program Credits: 120

General Education Requirements:		37 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
MATH 1210	Calculus I	5
Complete the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses		
BIOL 1010	General Biology (fulfills Biology Distribution)	3
ENVT 1110	Introduction to Environmental Management (fulfills Physical Science Distribution)	3
GEO 1010	Introduction to Geology (fulfills additional Physical Science Distribution)	3
Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		60 Credits
GEO 1015	Introduction to Geology Laboratory	1
CHEM 1210	Principles of Chemistry I	4
CHEM 1215	Principles of Chemistry I Laboratory	1
CHEM 1220	Principles of Chemistry II	4
CHEM 1225	Principles of Chemistry II Laboratory	1
ENVT 1200	Environmental Worker Safety	3
ENVT 1270	Environmental Microbiology	3
ENVT 1300	Environmental Lab and Sampling	3
ENVT 1510	Hazardous Materials Emergency Response	3
ENVT 2560	Environmental Health	3
ENVT 2710	Environmental Careers	1
ENVT 2730	Introduction to Soils	4
ENVT 3280	Environmental Law	3
ENVT 3530	Environmental Management Systems	3
ENVT 3790	Hydrology I	4
ENVT 3850	Environmental Policy	3

Earth Science

	GEOG 3600	Introduction to Geographic Information Systems	4
	ENVT 4790	Hydrology II	4
	MATH 1060	Trigonometry	3
	STAT 2040	Principles of Statistics	4
	GEO 480R	Earth Science Seminar (Must be taken twice)	1
Elective Requirements:			23 Credits
Choose 23 credit hours from the following list (at least 19 credits must be Upper Division):			23
	CHEM 2310	Organic Chemistry I (4.0)	
	CHEM 2315	Organic Chemistry I Laboratory (1.0)	
	CHEM 2320	Organic Chemistry II (4.0)	
	CHEM 2325	Organic Chemistry II Laboratory (1.0)	
	ENVT 1210	Introduction to Water Reclamation (3.0)	
	ENVT 1360	Introduction to Water Treatment (3.0)	
	ENVT 282R	Environmental Internship (1.0)	
	ENVT 3010	Environmental Toxicology (3.0)	
	ENVT 3320	Hydraulics of Water (3.0)	
	ENVT 3330	Water Resources Management (3.0)	
	ENVT 3550	Site Investigation (3.0)	
	ENVT 3700	Current Topics in Environmental Management (3.0)	
	ENVT 3750	Land Use Planning (3.0)	
	ENVT 3770	Natural Resources Management (3.0)	
	ENVT 3800	Energy Use on Earth (3.0)	
	ENVT 482R	Geologic/Environmental Internship (1.0)	
	ENVT 495R	Special Projects in Environmental Management (1.0)	
	GEO 3000	Environmental Geochemistry (3.0)	
	GEO 3080	Earth Materials (3.0)	
and	GEO 3085	Earth Materials Laboratory (1.0)	
	GEO 3100	Isotope Geochemistry (3.0)	
	GEO 3105	Isotope Geochemistry Laboratory (1.0)	
	GEO 3200	Geologic Hazards (4.0)	
or	GEO 3500	Geomorphology (4.0)	
	GEO 4500	Sedimentary Geology (4.0)	
	GEOG 3400	Environmental Remote Sensing (3.0)	
	GEOG 3650	Advanced Geographic Information Systems (4.0)	
	GEOG 3700	Wetland Studies (3.0)	
	GEOG 4100	Geospatial Field Methods (3.0)	
Or other advisor-approved electives			

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Grade of C- or better in all ENVT, GEO, and GEOG courses.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Environmental Science and Management, B.S. Careers

Careers:

The three degree programs offered by the Department of Earth Science (B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad science education that's ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide.

The Environmental Science and Management B.S. degree is a flexible program that prepares graduates for a variety of exciting and important careers ranging from water and wastewater treatment through jobs monitoring water resources to working with geographic information systems. The degree is also terrific preparation for many careers that draw on a solid background in environmental science, for example in public policy, law, public health, humanitarian work and more. Job prospects are excellent, and potential employers include local, state and federal government agencies and environmental consulting firms. Graduates are well prepared to work with water quality issues, including both monitoring and treating water resources, and a number of graduates are working at local government water treatment plants around the state, ensuring a safe water supply. Others work for environmental consulting firms where they are helping prevent, assess, and remediate water pollution and other environmental hazards; some have chosen to enhance their education in graduate school; and still others work in a range of fields monitoring and maintaining the environment.

Related Careers

- Environmental Scientists and Specialists, Including Health
- Environmental Science Teachers, Postsecondary

Geography, B.S.

Requirements

Geography is the study of the earth's places, peoples, environments and their interrelationships from both the physical and social science perspectives. Geographers use many different scientific tools to study the relationships between earth's systems including geospatial technology and are employed in public agencies, local governments, federal offices, technology sectors, business planning, and careers related to spatial planning. The Bachelor of Science in Geography provides students with a program of study in the fundamentals of geography and prepares them to succeed as geographers as well as in many other careers related to geography. Students learn theories and methods of analysis related to land use and land cover change, urbanization, sustainability, human-environment interactions, and Geographic Information Systems (GIS) technology through the core courses of the program. Through elective courses, students can choose to further focus their studies on physical sciences, social sciences, and/or geospatial techniques to meet their career goals.

Total Program Credits: 120

General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities Social Sciences	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	

	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	METO 1010	Introduction to Meteorology	3
	GEOG 1000	Introduction to Physical Geography	3
	GEOG 130G	Survey of World Geography	3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Biology		3
Discipline Core Requirements:			84 Credits
	STAT 2040	Principles of Statistics	4
	GEOG 1005	Introduction to Physical Geography Lab	1
	GEOG 1600	Geography of Utah	3
or	GEOG 1400	Introduction to Human Geography (3.0)	
	GEOG 3100	Cartography	3
	GEOG 3110	Urban Geography	3
	GEOG 3500	Geomorphology	4
	GEOG 3600	Introduction to Geographic Information Systems	4
	GEOG 3650	Advanced Geographic Information Systems	4
	GEO 480R	Earth Science Seminar (taken twice)	1
Complete at least 57 credits from the following, including a minimum of 12 credits from Group I and 9 credits from Group II			
Group I			12
	ENVT 2730	Introduction to Soils (4.0)	
	ENVT 3790	Hydrology I (4.0)	
	GEO 1010	Introduction to Geology (3.0)	
and	GEO 1015	Introduction to Geology Lab (1.0)	
	GEO 3200	Geologic Hazards (4.0)	
	GEOG 3400	Environmental Remote Sensing (3.0)	
	GEOG 3700	Wetland Studies (3.0)	
and	GEOG 3705	Wetland Studies Laboratory (1.0)	
	GEOG 4100	Geospatial Field Methods (3.0)	
	METO 3100	Climate and the Earth System (3.0)	
Group II			9
	GEOG 2100	Geography of the United States (3.0)	
	GEOG 2500	Geography of Latin America and the Caribbean (3.0)	
	GEOG 3250	Cultural Geography (3.0)	
	SOC 4020	Survey Research Design (3.0)	
or	ANTH 3850	Ethnographic Methods (3.0)	
Group III			36
Group III Choose 36 credits from the following list or any that have not been taken from Group I or Group II			
	ANTH 2030	Archeological Method and Theory (3.0)	

	ANTH 3150	Culture Ecology and Health (3.0)	
	BIOL 1610	College Biology I (4.0)	
and	BIOL 1615	College Biology I Laboratory (1.0)	
	BIOL 1620	College Biology II (4.0)	
and	BIOL 1625	College Biology II Laboratory (1.0)	
	BIOL 3700	General Ecology (3.0)	
	CHEM 1110	Elementary Chemistry for the Health Sciences (4.0)	
or	CHEM 1210	Principles of Chemistry I (4.0)	
	CHEM 1115	Elementary Chemistry Laboratory (1.0)	
or	CHEM 1215	Principles of Chemistry I Laboratory (1.0)	
	CHEM 1120	Elementary Organic Bio-Chemistry (4.0)	
or	CHEM 1220	Principles of Chemistry II (4.0)	
	CHEM 1125	Elementary Organic Bio-Chemistry Laboratory (1.0)	
or	CHEM 1225	Principles of Chemistry II Laboratory (1.0)	
	ENGL 373R	Literature of Cultures and Places (3.0)	
	ENST 3000	Introduction to Environmental Studies (3.0)	
	ENVT 3750	Land Use Planning (3.0)	
	ENVT 3770	Natural Resources Management (3.0)	
	ENVT 3800	Energy Use on Earth (3.0)	
	GEO 1220	Historical Geology (3.0)	
and	GEO 1225	Historical Geology Laboratory (1.0)	
	GEO 3080	Earth Materials (3.0)	
and	GEO 3085	Earth Materials Laboratory (1.0)	
	GEOG 482R	GIS Internship (1.0)	
	GEOG 489R	Student Research in Geography (1.0) (maximum 4)	
	PHIL 3530	Environmental Ethics (3.0)	
	MATH 1060	Trigonometry (3.0)	
	MATH 1210	Calculus I (5.0)	
	MATH 1220	Calculus II (5.0)	
	PHYS 2010	College Physics I (4.0)	
or	PHYS 2210	Physics for Scientists and Engineers I (4.0)	
	PHYS 2020	College Physics II (4.0)	
or	PHYS 2220	Physics for Scientists and Engineers II (4.0)	
	SOC 3520	Environmental Sociology (3.0)	
or	ENST 3520	Environmental Sociology (3.0)	
	SOC 2370	Gender Roles (3.0)	
	SOC 3700	Social Inequality (3.0)	
	SOC 3850	Rural Life--Global and Local (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, including 40 hours of upper-division credit.
2. Overall grade point average of 2.0 (C) or above.
3. Grade of C- or better in every ENVT, GEO, GEOG, METO, and core curriculum course.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

Earth Science

5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Geography, B.S. Careers

Careers:

The degree programs offered by the Department of Earth Science (B.S. in Geography, B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad science education that's ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide.

The Environmental Science and Management B.S. degree is a flexible program that prepares graduates for a variety of exciting and important careers ranging from water and wastewater treatment through jobs monitoring water resources to working with geographic information systems. The degree is also terrific preparation for many careers that draw on a solid background in environmental science, for example in public policy, law, public health, humanitarian work and more. Job prospects are excellent, and potential employers include local, state and federal government agencies and environmental consulting firms. Graduates are well prepared to work with water quality issues, including both monitoring and treating water resources, and a number of graduates are working at local government water treatment plants around the state, ensuring a safe water supply. Others work for environmental consulting firms where they are helping prevent, assess, and remediate water pollution and other environmental hazards; some have chosen to enhance their education in graduate school; and still others work in a range of fields monitoring and maintaining the environment.

Related Careers

- Managers, All Other
- Geographers
- Geography Teachers, Postsecondary

Geology, B.S. Requirements

Geology is the study of the Earth, including its water and atmosphere, and its relationship to humans and other living things. Geology applies chemistry, physics, mathematics and biology to answer questions about the Earth. Geologists conduct studies in the field, in the laboratory using advanced analytical equipment, and in the office using specialized computer software. Geology is particularly focused on the Earth's history, resources, hazards and resources including groundwater. Sub-disciplines of geology include economic geology, geochemistry, geologic hazards, geomorphology, hydrogeology, petrology, and tectonics. A B.S. in geology is preparation for a variety of career paths, including hazard assessment with government or private companies, ground and surface water monitoring and development, oil and gas, mining, and many other careers that draw on a background in the natural earth, including law, public policy, and public health; the program is also excellent preparation for graduate school.

Total Program Credits: 120

General Education Requirements:		27 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2020	Intermediate Writing--Science and Technology 3
	MATH 1050	College Algebra 4
or	MATH 1055	College Algebra with Preliminaries (5.0)
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)

	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
	Biology*		
	Physical Science*		
	Additional Biology or Physical Science*		
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			93 Credits
	BIOL 1010	General Biology	3
	CHEM 1210	Principles of Chemistry I	4
	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1220	Principles of Chemistry II	4
	CHEM 1225	Principles of Chemistry II Laboratory	1
	ENVT 3790	Hydrology I	4
	GEOG 3600	Introduction to Geographic Information Systems	4
	GEO 1010	Introduction to Geology	3
	GEO 1015	Introduction to Geology Laboratory	1
	GEO 1220	Historical Geology	3
	GEO 1225	Historical Geology Laboratory	1
	GEO 3080	Earth Materials	3
	GEO 3085	Earth Materials Laboratory	1
	GEO 3200	Geologic Hazards	4
	GEO 3700	Structure and Tectonics	4
	GEO 4500	Sedimentary Geology	4
	GEO 4600	Field Experience	4
	MATH 1060	Trigonometry	3
	MATH 1210	Calculus I	5
	MATH 1220	Calculus II	5
	STAT 2040	Principles of Statistics	4
	GEO 480R	Earth Science Seminar (Must be taken twice)	1
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2220	Physics for Scientists and Engineers II	4
Complete 18 credits from the following list (at least 11 credits must be Upper Division)			18
	BIOL 3800	Conservation Biology (3.0)	
	ENVT 2730	Introduction to Soils (4.0)	
	ENVT 3280	Environmental Law (3.0)	
	ENVT 3290	Environmental Permits and Reports (3.0)	
	ENVT 4790	Hydrology II (4.0)	

GEO 202R	Science Excursion (1.0)	
GEO 3000	Environmental Geochemistry (3.0)	
GEO 3100	Isotope Geochemistry (3.0)	
GEO 3105	Isotope Geochemistry Laboratory (1.0)	
GEO 3400	Forensic Geology (4.0)	
GEO 3500	Geomorphology (4.0)	
GEO 4080	Petrology (4.0)	
GEO 4510	Paleontology (4.0)	
GEO 482R	Geologic/Environmental Internship (1.0)	
GEOG 3400	Environmental Remote Sensing (3.0)	
GEOG 3650	Advanced Geographic Information Systems (4.0)	
GEOG 3700	Wetland Studies (3.0)	
GEOG 4100	Geospatial Field Methods (3.0)	
METO 1010	Introduction to Meteorology (3.0)	
METO 3100	Climate and the Earth System (3.0)	
PHYS 2015	College Physics I Lab (1.0)	
PHYS 2025	College Physics II Lab (1.0)	
Or other advisor-approved electives		

information systems. However, many graduates have shown that a degree in geology is an effective stepping-stone to a variety of career paths including public policy, law, public health, humanitarian work, and more, particularly when the endeavors involve issues related to the environment.

Related Careers

- Natural Sciences Managers
- Geoscientists, Except Hydrologists and Geographers
- Hydrologists
- Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, including 40 hours of upper-division credit.
2. Overall grade point average of 2.0 (C) or above.
3. Grade of C- or better in every ENVT, GEO, GEOG, and METO course.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Note: *This requirement is satisfied within the discipline core requirements.

Geology, B.S. Careers

Careers:

The three degree programs offered by the Department of Earth Science (B.S. in Geology, B.S. in Environmental Science and Management, and B.S. in Earth Science Education) provide a wide range of skills and knowledge that are applicable to today's earth science job markets, as well as a broad science education that's ideal for students planning to continue to graduate programs in law, education, business, or health fields. Our Department graduates professionals who are skilled and creative and who are well prepared to contribute toward solving earth and environmental science challenges faced here in Utah and worldwide. More specific information on career opportunities related to each degree is provided below.

A bachelor of science in Geology is excellent preparation for a wide range of careers, including geology and closely allied fields, as well as a variety of opportunities that draw upon a graduate's broad and rigorous education in the physical and environmental sciences. Job prospects for graduates are excellent, and work may be largely be field-based, office-based or a combination. Many students continue to graduate school before entering the labor market, while many others take employment upon graduation. Large employers of geologists include the oil and gas industry, mineral exploration and extraction, geologic consulting, and government agencies. In the oil and gas and mining industries many geologists are involved with exploration for additional resources and development of existing resources. Geologic consulting involves work such as assessing and mitigating hazards including landslides, earthquakes and flooding; evaluating slope stability and compaction; and evaluating and protecting surface and ground water resources. Geologists working for government agencies perform interesting tasks ranging from field mapping to land use analysis, investigations of water resources, and working with geographic

Education Graduate Programs

School of Education

- **Dean:** Parker Fawson
- **Office:** ME 117b
- **Telephone:** 801-863-8006
- **Associate Dean:** Stan Harward
- **Office:** ME 112a
- **Telephone:** 801-863-6571
- **Assistant Dean:** Vessela Ilieva
- **Office:** ME 130b
- **Telephone:** 801-863-5183
- **Assistant to Dean:** Wendi Hillman
- **Office:** ME 117
- **Telephone:** 801-863-6543

Education Graduate Programs

- **Program Director:** Mary Sowder
- **Office:** ME 116c
- **Telephone:** 801-863-8228
- **Email:** Mary.Sowder@uvu.edu
- **Coordinator of Endorsement Program:** John Allan
- **Telephone:** 801-863-7614
- **Email:** john.allan@uvu.edu
- **Graduate Assistant:** Lauriejo Hansen
- **Telephone:** 801-863-5468
- **Email:** Lauriejo.Hansen@uvu.edu
- **Administrative Contact:** Connie Wright
- **Telephone:** 801-863-8228
- **Email:** wrightco@uvu.edu
- **Advisor:** Kim Fale
- **Office:** ME 114b
- **Telephone:** 801-863-5184
- **Email:** kim.fale@uvu.edu

Master of Education

Program Description

The Master of Education (M.Ed.) degree at Utah Valley University is an applied master's degree aimed at building the instructional skill and professional competency of teachers. The goal is to enable participants to become more proficient in selecting optimum, research-based, curriculum design strategies that best apply to specific teaching situations.

There are currently seven emphases in the Master of Education Degree:

- Applied Behavioral Analysis
- Educational Technology
- Elementary Mathematics
- Elementary STEM
- English as a Second Language (ESL)
- Higher Education Leadership
- Reading I
- Secondary Teaching
- Teacher Leadership

The M.Ed. requires 30-33 semester hours of graduate course work and completion of a culminating applied instructional project tailored to the particular interests of program

participants. Participants enter the M.Ed. program in cohorts and progress through the degree program in a group. While the culminating applied instructional project is unique to each student, some course work and many class activities are done in collaboration with fellow students.

Graduate Certificate in Secondary Teaching

The Graduate Certificate in Secondary Teaching is designed for individuals who would like to receive a Utah Secondary Teaching License, and have earned a bachelor's degree in one of the teaching major subject areas for secondary education approved by the Utah State Board of Education. This program will include the basic coursework and field experiences required of all teacher candidates for an initial teaching license, ensuring that competencies in both subject knowledge and pedagogy are met.

Admission & Retention

Application to the Program

Applicants should complete an online graduate application by following the application link on the UVU Web site and follow all instructions for graduate application and admission. Applications and application fees must be received by March 31 for consideration for summer semester. Students in the M.Ed. program begin with full-time coursework in the summers and part-time enrollment in the fall and spring semesters.

Required support materials received after the application deadline will delay processing of the application. The School of Education Graduate Screening Committee reviews applications and schedules interviews for applicants meeting minimum admission requirements. The Director of Graduate Studies for the School of Education notifies all applicants in writing of the admission decision. The University cannot guarantee a response on or before a specific date. All admission materials become the property of UVU and will not be returned to the applicant.

Reapplication

If an applicant is not admitted, s/he may reapply. All current admission requirements at the time of application must be met in order to be fully admitted to the program.

Satisfactory Progress

Continuation in the Master of Education program is determined by: (1) satisfactory progress (B- or higher) in all courses and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than B-; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Education program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to graduate programs or permission of the Dean of the School of Education is required for enrollment in the Master of Education and Graduate Certificate courses.

2018-19 Base Graduate-Tuition and General Fee Schedule							
Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total

Education Graduate Programs

0.5	141.50	17.50	159.00		0.5	431.50	17.50	449.00
1.0	283.00	35.00	318.00		1.0	863.00	35.00	898.00
1.5	424.50	52.50	477.00		1.5	1,294.50	52.50	1,347.00
2.0	566.00	70.00	636.00		2.0	1,726.00	70.00	1,796.00
2.5	707.50	87.50	795.00		2.5	2,157.50	87.50	2,245.00
3.0	849.00	105.00	954.00		3.0	2,589.00	105.00	2,694.00
3.5	990.50	122.50	1,113.00		3.5	3,020.50	122.50	3,143.00
4.0	1,132.00	140.00	1,272.00		4.0	3,452.00	140.00	3,592.00
4.5	1,273.50	157.50	1,431.00		4.5	3,883.50	157.50	4,041.00
5.0	1,415.00	175.00	1,590.00		5.0	4,315.00	175.00	4,490.00
5.5	1,556.50	192.50	1,749.00		5.5	4,746.50	192.50	4,939.00
6.0	1,698.00	210.00	1,908.00		6.0	5,178.00	210.00	5,388.00
6.5	1,839.50	227.50	2,067.00		6.5	5,609.50	227.50	5,837.00
7.0	1,981.00	245.00	2,226.00		7.0	6,041.00	245.00	6,286.00
7.5	2,122.50	262.50	2,385.00		7.5	6,472.50	262.50	6,735.00
8.0	2,264.00	280.00	2,544.00		8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00		8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00		9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00		9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00		10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50		10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00		11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50		11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00		12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50		12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00		13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50		13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00		14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50		14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00		15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50		15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00		16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50		16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00		17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50		17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00		18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50		18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00		19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50		19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00		20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50		20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00		21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50		21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00		22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50		22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00		23.0	19,849.00	350.00	20,199.00

23.5	6,650.50	350.00	7,000.50		23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00		24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50		24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00		25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

FACULTY

- BRANDT, Lorilynn B.** Associate Professor
- ESCALANTE, Debora L.** Associate Professor
- ILIEVA, Vessela** Associate Professor
- JAY, Sandy** Associate Professor
- KANG, Mi Ok** Associate Professor
- PATCH, Michael** Associate Professor
- PETERSON, Nancy L.** Professor
- SELLAND, Makenzie** Assistant Professor
- SOWDER, Mary** Associate Professor
- TUFT, Elaine** Associate Professor
- WAITE, Bryan** Associate Professor
- WARBURTON, Trevor** Assistant Professor

Course Descriptions

Education.....667

Degrees & Programs

Dual Language Immersion, Endorsement

Requirements

The Dual Language Immersion (DLI) Endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of dual language immersion (DLI) learners and to become advocates for DLI in a variety of educational settings. Coursework is designed to address historical and political foundations of DLI education and methods and materials for engaging DLI students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in dual language immersion education. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Total Program Credits: 15

Discipline Core Requirements:			15 Credits
EDUC 5700	Foundations of Dual Language Immersion Education		3
EDUC 5300	Content-based Curriculum, Instruction, and Assessment		3
EDUC 5380	Second Language Literacy Development for Practitioners		3
EDUC 5340	Methods of Second Language Acquisition for Practitioners		3
EDUC 5710	Instructional Strategies, Curriculum, and Classroom Management for the Elementary Classroom (For Secondary Teachers)		3
or	EDUC 5350	Theories of Second Language Acquisition for Practitioners (For Elementary Teachers)(3.0)	

Education Graduate Programs

Dual Language Immersion, Endorsement Careers

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Program options in English as a Second Language, Educational Technology, Elementary Mathematics, and Reading I will also qualify students to apply for an endorsement to their current Utah Teaching Certificate.

Related Careers

- Kindergarten Teachers, Except Special Education
- Elementary School Teachers, Except Special Education
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
- Adult Basic and Secondary Education and Literacy Teachers and Instructors
- Teachers and Instructors, All Other

Educational Technology, Endorsement

Requirements

The Educational Technology endorsement program emphasizes coursework that prepares classroom teachers to incorporate the latest technological tools into effective instructional practice. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
	EDUC 5800	Cognition, Education and Technology for Practitioners (3.0)
or	EDUC 6080	Cognition, Education and Technology
	EDUC 5810	Instruction, Curriculum & Educational Leadership in the Digital Age for Practitioners (3.0)
or	EDUC 6081	Instruction, Curriculum and Educational Leadership in the Digital Age
	EDUC 5820	Designing and Producing Media for Instruction for Practitioners (3.0)
or	EDUC 6082	Designing and Producing Media for Instruction
	EDUC 5830	Digital Models of Instruction for Practitioners (3.0)
or	EDUC 6083	Digital Models of Instruction
	EDUC 5840	Universal Design for Learning for Practitioners (3.0)
or	EDUC 6084	Universal Design for Learning
	EDUC 5850	Digital Course Design Capstone for Practitioners (3.0)
or	EDUC 6085	Digital Course Design Capstone

Educational Technology, Endorsement Careers

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Related Careers

- Audio-Visual and Multimedia Collections Specialists

Elementary Mathematics, Endorsement

Requirements

The Elementary Mathematics program emphasizes coursework that better prepares teachers in the elementary classroom in mathematical content and pedagogy, including courses in six key areas of mathematics. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
	EDUC 5500	Teaching K-8 Numbers and Operations for Practitioners
or	EDUC 6500	Teaching K-8 Numbers and Operations (3.0)
	EDUC 5510	Teaching K-8 Rational Numbers and Proportional Reasoning for Practitioners
or	EDUC 6510	Teaching K-8 Rational Numbers and Proportional Reasoning (3.0)
	EDUC 5520	Teaching K-8 Algebraic Reasoning for Practitioners
or	EDUC 6520	Teaching K-8 Algebraic Reasoning (3.0)
	EDUC 5530	Teaching K-8 Geometry and Measurement for Practitioners
or	EDUC 6530	Teaching K-8 Geometry and Measurement (3.0)
	EDUC 5540	Teaching K-8 Data Analysis and Problem Solving for Practitioners
or	EDUC 6540	Teaching K-8 Data Analysis and Problem Solving (3.0)
	EDUC 5550	Teaching K-8 Assessment and Intervention for Practitioners
or	EDUC 6550	Teaching K-8 Assessment and Intervention (3.0)

Elementary Mathematics, Endorsement Careers

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Related Careers

- Instructional Coordinators

Elementary STEM, Endorsement

Requirements

The Utah Valley University endorsement program for Elementary Science, Technology, Engineering, and Mathematics (STEM) is geared to providing professional development and best practices for practicing teachers in grades K-8. The goal of this program is to enhance educators' understandings of key concepts in STEM areas so that they may better serve the needs of their students in the 21st century.

Total Program Credits: 18

Discipline Core Requirements:		18 Credits	
	EDUC 5750	Energy in STEM for Elementary Teachers	3
or	EDUC 6750	Energy in Elementary STEM Education (3.0)	
	EDUC 5760	Force in STEM for Elementary Teachers	3
or	EDUC 6760	Force in Elementary STEM Education (3.0)	
	EDUC 5770	Matter in STEM for Elementary Teachers	3
or	EDUC 6770	Matter in Elementary STEM Education (3.0)	
	EDUC 5780	Nature of Science and Engineering	3
or	EDUC 6780	Science and Engineering in Elementary STEM Education (3.0)	
	EDUC 5790	STEM Practices with a Focus on Technology and Problem-Based Learning	3
or	EDUC 6790	Technology and Problem-Based Learning in Elementary STEM Education (3.0)	
	EDUC 5540	Teaching K-8 Data Analysis and Problem Solving for Practitioners (3.0)	3
or	EDUC 6540	Teaching K-8 Data Analysis and Problem Solving (3.0)	

Elementary STEM, Endorsement Careers

Related Careers

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English as Second Language, Endorsement Requirements

The English as a Second Language program emphasizes coursework that aids teachers in becoming better skilled at meeting the needs of English language learners in the K-12 classroom, and better prepared to understand the many cultural and community influences that may influence student learning. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Total Program Credits: 18

Discipline Core Requirements:		18 Credits	
	EDUC 5340	Methods of Second Language Acquisition for Practitioners	3
or	EDUC 6340	English as a Second Language Methods (3.0)	
	EDUC 5350	Theories of Second Language Acquisition for Practitioners	3
or	EDUC 6350	Theories of Second Language Acquisition (3.0)	
	EDUC 5360	Multicultural Education for Practitioners	3
or	EDUC 6360	Multicultural Education (3.0)	
	EDUC 5370	Assessment for Second Language Learners for Practitioners	3
or	EDUC 6370	Assessment of Second Language Learners (3.0)	

	EDUC 5380	Second Language Literacy Development for Practitioners	3
or	EDUC 6380	Literacy and Linguistics in English as a Second Language (3.0)	
	EDUC 5390	Family and Community Involvement for Practitioners	3
or	EDUC 6390	Family and Community Involvement (3.0)	

English as Second Language, Endorsement Careers

Careers:
While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Related Careers

- Kindergarten Teachers, Except Special Education
- Elementary School Teachers, Except Special Education
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
- Adult Basic and Secondary Education and Literacy Teachers and Instructors
- Teachers and Instructors, All Other

Gifted and Talented, Endorsement

Requirements

The Utah Valley University Gifted and Talented endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of gifted and talented (GT) learners and to become advocates for their students in a variety of educational settings, whether they become teachers in Gifted and Talented programs or teachers who work with these learners in the mainstream classroom setting. Coursework is designed to address historical and political foundations of GT education, the social and emotional needs of these learners, and methods and materials for engaging GT students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in gifted and talented education.

Total Program Credits: 19

Discipline Core Requirements:		19 Credits	
	EDUC 5600	Education of the Gifted and Talented	3
	EDUC 5610	Social and Emotional Needs of the Gifted	3
	EDUC 5620	Identification/Evaluation in Gifted Education	3
	EDUC 5630	Theory into Practice in Gifted and Talented Education	2
	EDUC 5635	Methods and Materials in Gifted Education for Practitioners	2
	EDUC 5640	Improvement of Curriculum Instruction in the Content Areas	3
	EDUC 5650	Leadership in Gifted and Talented Education	3

Gifted and Talented, Endorsement Careers

Careers:
While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in Gifted and Talented programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers. Completed program coursework qualifies

Education Graduate Programs

students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Related Careers

- Instructional Coordinators

Master of Education - Applied Behavioral Analysis Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:			
1.	Application for admission.		
2.	Bachelor degree from an accredited institution.		
3.	Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.		
4.	Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.		
5.	Interview with School of Education Graduate Committee.		
6.	Three professional letters of recommendation.		
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.			
Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:			12 Credits
	EDUC 6100	ABA Concepts and Principles	3
	EDUC 6110	Applied Statistics for Education	3
	EDUC 6200	Masters Project	3
	EDUC 6910	Project I	1
	EDUC 6920	Project II	1
	EDUC 693R	Project III	1
Emphasis Requirements:			18 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.			
	EDUC 6010	ABA Concepts and Principles	3
	EDUC 6020	Ethics and Professional Competencies in Applied Behavioral Analysis	3
	EDUC 6030	Developing and Changing Behaviors	3
	EDUC 6040	Measurement in Single Subject Design	3
	EDUC 6050	Functional Behavior Assessment and Treatment	3
	EDUC 6060	Advanced Topics in Applied Behavior Analysis	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Applied Behavioral Analysis Emphasis, M.Ed. Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - Educational Leadership, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 36

Matriculation Requirements:			
1.	Application for admission.		
2.	Bachelor degree from an accredited institution.		
3.	Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.		
4.	Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.		
5.	Interview with School of Education Graduate Committee.		
6.	Three professional letters of recommendation.		
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.			
Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:			12 Credits
	EDUC 6100	Research Methodology	3
	EDUC 6110	Applied Statistics for Education	3
	EDUC 6200	Masters Project	3

EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1
Emphasis Requirements:		24 Credits
EDUC 6120	Personal Leadership and Organizational Design	3
EDUC 6130	School Operations and Management-Finance/Law/Safety	3
EDUC 6140	Instructional Leadership and Data-based Decision Making	3
EDUC 6150	School Operations and Management-Communication/Planning/HR/Evaluation	3
EDUC 6160	Leading Professional Learning Communities	3
EDUC 6170	Leading Change/Innovation/Educational Entrepreneurship	3
EDUC 6320	21st Century Teaching and Learning	3
EDUC 6330	Diversity and Differentiation in the Classroom	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Educational Leadership, M.Ed. Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - Educational Technology Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Application for admission. 2. Bachelor degree from an accredited institution. 3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile. 4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit. 5. Interview with School of Education Graduate Committee. 6. Three professional letters of recommendation. 			
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.			
Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:			12 Credits
EDUC 6100	Research Methodology		3
EDUC 6110	Applied Statistics for Education		3
EDUC 6200	Masters Project		3
EDUC 6910	Project I		1
EDUC 6920	Project II		1
EDUC 693R	Project III		1
Emphasis Requirements:			18 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.			
EDUC 6080	Cognition, Education, and Technology		3
EDUC 6081	Instruction, Curriculum and Educational Leadership in the Digital Age		3
EDUC 6082	Designing and Producing Media for Instruction		3
EDUC 6083	Digital Models of Instruction		3
EDUC 6084	Universal Design for Learning		3
EDUC 6085	Digital Course Design Capstone		3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Educational Technology Emphasis, M.Ed. Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology,

Education Graduate Programs

and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - Elementary Mathematics Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:			
1.	Application for admission.		
2.	Bachelor degree from an accredited institution.		
3.	Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.		
4.	Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.		
5.	Interview with School of Education Graduate Committee.		
6.	Three professional letters of recommendation.		
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.			
Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:			12 Credits
	EDUC 6100	Research Methodology	3
	EDUC 6110	Applied Statistics for Education	3
	EDUC 6200	Masters Project	3
	EDUC 6910	Project I	1
	EDUC 6920	Project II	1
	EDUC 693R	Project III	1
Emphasis Requirements:			18 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.			
	EDUC 6500	Teaching K-8 Numbers and Operations	3
	EDUC 6510	Teaching K-8 Rational Numbers and Proportional Reasoning	3
	EDUC 6520	Teaching K-8 Algebraic Reasoning	3
	EDUC 6530	Teaching K-8 Geometry and Measurement	3
	EDUC 6540	Teaching K-8 Data Analysis and Problem Solving	3
	EDUC 6550	Teaching K-8 Assessment and Intervention	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Elementary Mathematics Emphasis, M.Ed.

Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - Elementary STEM Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:			
1.	Application for admission.		
2.	Bachelor degree from an accredited institution.		
3.	Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.		
4.	Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.		
5.	Interview with School of Education Graduate Committee.		
6.	Three professional letters of recommendation.		
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.			
Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:			12 Credits
	EDUC 6100	Research Methodology	3
	EDUC 6110	Applied Statistics for Education	3
	EDUC 6200	Masters Project	3

EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1
Emphasis Requirements:		18 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.		
EDUC 6540	Teaching K-8 Data Analysis and Problem Solving	3
EDUC 6750	Energy in Elementary STEM Education	3
EDUC 6760	Force in Elementary STEM Education	3
EDUC 6770	Matter in Elementary STEM Education	3
EDUC 6780	Science and Engineering in Elementary STEM Education	3
EDUC 6790	Technology and Problem-Based Learning in Elementary STEM Education	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Elementary STEM Emphasis, M.Ed.

Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - English as a Second Language Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Application for admission. 2. Bachelor degree from an accredited institution. 3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile. 4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit. 5. Interview with School of Education Graduate Committee. 6. Three professional letters of recommendation. 			
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.			
Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:			12 Credits
EDUC 6100	Research Methodology	3	
EDUC 6110	Applied Statistics for Education	3	
EDUC 6200	Masters Project	3	
EDUC 6910	Project I	1	
EDUC 6920	Project II	1	
EDUC 693R	Project III	1	
Emphasis Requirements:			18 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.			
EDUC 6340	English as a Second Language Methods	3	
EDUC 6350	Theories of Second Language Acquisition	3	
EDUC 6360	Multicultural Education	3	
EDUC 6370	Assessment of Second Language Learners	3	
EDUC 6380	Literacy and Linguistics in English as a Second Language	3	
EDUC 6390	Family and Community Involvement	3	

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - English as a Second Language Emphasis, M.Ed.

Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology,

Education Graduate Programs

and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - Higher Education Leadership Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:			
1.	Application for admission.		
2.	Bachelor degree from an accredited institution.		
3.	Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.		
4.	Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.		
5.	Interview with School of Education Graduate Committee.		
6.	Three professional letters of recommendation.		
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching. Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:		12 Credits	
	EDUC 6100	Research Methodology	3
	EDUC 6110	Applied Statistics for Education	3
	EDUC 6200	Masters Project	3
	EDUC 6910	Project I	1
	EDUC 6920	Project II	1
	EDUC 693R	Project III	1
Emphasis Requirements:		18 Credits	
	EDUC 6470	Foundations and Contexts of Higher Education	3
	EDUC 6460	Student Success and Development	3
	EDUC 6450	Planning-Budget-Organizational Effectiveness	3
	EDUC 6440	Leadership in Higher Education	3
	EDUC 6430	Law-Policy-Ethics in Higher Education	3
	EDUC 6420	Diversity in Higher Education	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.

3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Higher Education Leadership Emphasis, M.Ed. Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - Reading I Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 33

Matriculation Requirements:			
1.	Application for admission.		
2.	Bachelor degree from an accredited institution.		
3.	Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.		
4.	Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.		
5.	Interview with School of Education Graduate Committee.		
6.	Three professional letters of recommendation.		
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching. Preference will be given to practicing teachers who have access to an established classroom.			
Discipline Core Requirements:		12 Credits	
	EDUC 6100	Research Methodology	3
	EDUC 6110	Applied Statistics for Education	3
	EDUC 6200	Masters Project	3
	EDUC 6910	Project I	1
	EDUC 6920	Project II	1

EDUC 693R	Project III	1
Emphasis Requirements:		21 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.		
EDUC 6660	Reading Assessments and Instructional Interventions	3
EDUC 6661	Literacy and Cognition of Reading	3
EDUC 6662	Early Literacy Instruction	3
EDUC 6663	Content Area Reading	3
EDUC 6664	Adolescent Literacy	3
EDUC 6665	Reading Comprehension Instruction	3
EDUC 6666	Effective Writing Instruction	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Reading I Emphasis, M.Ed. Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Master of Education - Secondary Teaching Emphasis, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:
1. Application for admission.

2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:		12 Credits
EDUC 6100	Research Methodology	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1
Emphasis Requirements:		18 Credits
EDUC 6081	Instruction, Curriculum and Educational Leadership in the Digital Age	3
EDUC 6084	Universal Design for Learning	3
EDUC 6310	Assessing Educational Practices	3
EDUC 6320	21st Century Teaching and Learning	3
EDUC 6330	Diversity and Differentiation in the Classroom	3
EDUC 6663	Content Area Reading	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Secondary Teaching Emphasis, M.Ed. Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Education Graduate Programs

Master of Education - Teacher Leadership, M.Ed.

Requirements

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Total Program Credits: 30

Matriculation Requirements:		
1.	Application for admission.	
2.	Bachelor degree from an accredited institution.	
3.	Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.	
4.	Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.	
5.	Interview with School of Education Graduate Committee.	
6.	Three professional letters of recommendation.	
Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.		
Preference will be given to practicing teachers who have access to an established classroom.		
Discipline Core Requirements:		12 Credits
EDUC 6100	Research Methodology	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1
Emphasis Requirements:		18 Credits
EDUC 6300	Curriculum Design	3
EDUC 6310	Assessing Educational Practices	3
EDUC 6320	21st Century Teaching and Learning	3
EDUC 6330	Diversity and Differentiation in the Classroom	3
EDUC 6400	Teachers as Leaders	3
EDUC 6410	Contemporary Issues	3

Graduation Requirements:

- Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
- Graduate project proposal accepted by School of Education Graduate Committee.
- Graduate project completed and accepted by the School of Education Graduate Committee.
- Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Master of Education - Teacher Leadership, M.Ed. Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Reading I, Endorsement

Requirements

The Reading Endorsement Program (REP) is designed to prepare teachers to be responsive to current scientific-reading research for teaching reading and to become advocates for reading research in the educational setting. Coursework is designed to address historical and political foundations of reading education and methods and materials for engaging students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of cognition, content, pedagogy, and cultural perspectives in their curriculum. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Total Program Credits: 21

Discipline Core Requirements:			21 Credits
EDUC 5660	Reading Assessments and Instructional Interventions for Practitioners (3.0)		
or	EDUC 6660	Reading Assessments and Instructional Interventions	3
	EDUC 5661	Literacy and Cognition of Reading for Practitioners (3.0)	
or	EDUC 6661	Literacy and Cognition of Reading	3
	EDUC 5662	Instruction with Literature and Informational Texts for Children and Young Adults (3.0)	
or	EDUC 6662	Early Literacy Instruction	3
	EDUC 5663	Content Area Reading and Writing Instruction for Practitioners (3.0)	
or	EDUC 6663	Content Area Reading	3
	EDUC 5664	Instructional Implications of Literacy Development for Practitioners (3.0)	
or	EDUC 6664	Adolescent Literacy	3
	EDUC 5665	Reading Comprehension Instruction for Practitioners (3.0)	
or	EDUC 6665	Reading Comprehension Instruction	3
	EDUC 5666	Effective Writing Instruction for Practitioners (3.0)	
or	EDUC 6666	Effective Writing Instruction	3

Reading I, Endorsement Careers

Careers:
While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in specialized reading programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Related Careers

- Instructional Coordinators

Secondary Teaching, Graduate Certificate

Requirements

The Graduate Certificate in Secondary Teaching is designed for individuals who have earned a bachelor's degree. They must have completed coursework in one of the teaching major subject areas for secondary education approved by the Utah State Board of Education (USBE) prior to admission into either program. The primary goal of the program will be to ensure that teacher candidates, through support, supervision, and evaluation, can demonstrate and apply the competencies required by the USBE for teacher licensure. Includes the basic coursework and field experiences required of all teacher candidates for an initial teaching license, ensuring that competencies in both subject knowledge and pedagogy are met.

Total Program Credits: 29

Matriculation Requirements:		
Requirements for admission to the Graduate Certificate in Secondary Teaching (GCST) program would include the following:		
<ol style="list-style-type: none"> 1. Verification of a bachelor's degree from an accredited university in a recognized content major (or with equivalent coursework) in a discipline taught in Utah secondary schools and for which UVU can recommend a secondary teaching license. Any coursework required by the Utah State Board of Education (USBE) for a content major* must be completed with a grade of C or higher prior to admission into the GCST program. 2. A cumulative GPA of 3.0 or a GPA of 3.0 for the last 60 credits of university coursework. 3. Passing scores from the Praxis II [subject-area test(s)] as required by the USBE. 4. Successful completion of a background check through USBE. 		
* Students will have completed a content-specific methods course prior to admission into the program. These courses are not offered in the School of Education, but in the appropriate content areas across the University. The following courses would be examples.		
<ul style="list-style-type: none"> • ART 3500 Secondary Art Education Methods I (1.0) • ART 3510 Secondary Art Education Methods II (3.0) • ENGL 4210 Methods in Teaching Literacy I (3.0) • ENGL 4220 Methods in Teaching Literacy II (3.0) • ENGL 4230 Methods in Teaching Literacy III Teaching the Conventions of Writing (3.0) • GEO 4200 Teaching Methods in Science (3.0) • PHYS 4200 Teaching Methods in Science (3.0) • CHEM 4200 Teaching Methods in Science (3.0) • BIOL 4200 Teaching Methods in Science (3.0) • LANG 4200 Methods of Teaching a Foreign Language (3.0) 		
Discipline Core Requirements:	29 Credits	
EDUC 6201	Teacher Performance Assessment Project	2
EDUC 6202	Classroom Management Practicum	3
EDUC 6203	Student Teaching Graduate Licensure	6
EDUC 6320	21st Century Teaching and Learning	3
EDUC 6330	Diversity and Differentiation in the Classroom	3

EDUC 6310	Assessing Educational Practices	3
EDUC 6663	Content Area Reading	3
EDUC 6081	Instruction, Curriculum and Educational Leadership in the Digital Age	3
EDUC 6084	Universal Design for Learning	3

Graduation Requirements:

1. Completion of all required coursework, with a grade of B- or better.
2. Completion of the Teacher Performance Assessment, with a score of 42 or better.
3. Successful completion of student teaching or internship hours.
4. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

Secondary Teaching, Graduate Certificate Careers

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Related Careers

- Instructional Coordinators

Elementary Education

Name:	Elementary Education
Location:	ME 116
Telephone:	801-863-8228
Email:	eled@uvu.edu
Web Address:	uvu.edu/education/elementary/
Chair:	Elaine Tuft

Mission Statement

The UVU School of Education prepares educators and clinicians to have a positive impact through meaningful innovation, engaged pedagogy, rigorous preparation, inclusion and diversity, and transformative communities.

Elementary Education

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-
-

Elementary Education Partner Districts

Alpine School District
Canyons School District
Granite School District
Jordan School District
Nebo School District
North Summit School District
Park City School District
Provo School District
South Summit School District
Wasatch School District

Early Childhood Education Program

The Early Childhood Education program is strongly aligned with community needs. It provides instruction and preparation for those seeking to work with young children in preschool and day care facilities. It provides a strong experiential program through course work, observations and practicum.

Professional Elementary Teacher Education Program

The Professional Elementary Teacher Education Program at Utah Valley University is designed to prepare quality, entry-level candidates for teaching in elementary education programs grades K-6. Students successfully completing the UVU professional teacher education program graduation and licensure requirements receive a baccalaureate degree in Elementary Education and a Level I Utah Professional Teaching License.

The UVU teacher education initial licensure program is accredited by the Association for Advancing Quality in Educator Preparation (AAQEP), the Utah State Board of Education, and the Northwest Commission on Colleges and Universities.

Career Opportunities

Early Childhood Education Program

Career opportunities include: teaching in early childhood programs and child care centers, Head Start teacher and teacher aide, teacher aide in elementary school, teacher aide in special education classes, owner and/or director of preschool or child care center.

Professional Elementary Teacher Education Program

Upon successful completion of the UVU Professional Teacher Education Program and the Praxis Subject Assessment, students are recommended to the Utah State Board of Education for an Elementary Education professional educator license. This license allows individuals to teach in Utah elementary schools.

Certain Elementary Education (EDEL) and Early Childhood Education (EDEC) courses transfer to other institutions offering these programs.

Degrees/License

Degrees available: Certificate of Completion in Early Care and Education, Associate in Science (AS) in Early Childhood Education, Associate in Science (AS) in Pre-Elementary Education, Baccalaureate of Science Degree (BS) in Elementary Education. The State of Utah offers professional educator licenses for Elementary Education.

Admission & Retention

Admission to the Education Program is required for enrollment in professional studies level courses. Admission criteria*: 1) Praxis (5001) Scores (required scores: Read/Lang. Art = 157, Math = 157, Social Studies = 155, Science – 159); 2) GPA of 3.00 or higher (including B- or higher in all EDEL pre-professional emphasis courses); 3) a grade of B- or higher in ENGL 2010 and a C or higher in all required math courses; and 4) Completion of the coursework for the Associate of Science degree in Pre-Elementary Education or equivalent. Applicants are accepted into the Teacher Education Program for fall and spring semesters after meeting entrance requirements.

*Please contact the Elementary Education Advisors for the current admission requirements. Admission to the teacher education licensure program is a separate process from and in addition to admission to Utah Valley University. Meeting the minimum requirements qualifies the student to be considered for admission.

To continue in the program, students are expected to maintain all program standards. They must maintain expected levels of competence in all coursework, field work, and student teaching with all course grades at or above a B- and a program GPA of 3.00 or higher. Additionally, teacher candidates are expected to adhere to standards of personal integrity, responsibility, and citizenship commonly expected of professional educators.

School of Education

- **Dean:** Parker Fawson
- **Office:** ME 117b
- **Telephone:** 801-863-8006

DEPARTMENT CHAIR

PATCH, Michael *Associate Professor*

FACULTY

BRANDT, Lorilynn B. *Associate Professor*

BYRD, Elaine H. *Professor*

ESCALANTE, Debora L. *Associate Professor*

GEARING, Nicole *Assistant Professor*

ILIEVA, Vessela *Associate Professor*

JAY, Sandy *Associate Professor*

KANG, Mi Ok *Associate Professor*

MEASOM, Keri *Lecturer*

PATCH, Michael *Associate Professor*

PETERSON, Nancy L. *Professor*

RUGGLES, Krista *Assistant Professor*

SERMON, Tracy *Sr. Lecturer*

SHARP, Ann C. *Associate Professor*

SMITH, John A. *Professor*

SOWDER, Mary *Associate Professor*

TUFT, Elaine *Associate Professor*

WATERS, Sandie *Associate Professor*

Course Descriptions

Edu Child and Family Studies.....	660
Edu Early Childhood Education.....	662
Edu Elementary Education.....	663
Edu Special Education.....	666

Degrees & Programs

Early Childhood Education, A.S.

Requirements

Individuals who earn an Associate Degree In Early Childhood Education are prepared to teach preschool in private and corporate centers, Head Start, and public education tuition preschools, or work as center directors. The Associate Degree in Early Childhood can be planned to fill the majority of the requirements for entry into the Elementary Education Program. The UVU Early Childhood Education program is accredited by the Northwest Commission on Colleges and Universities. The UVU Teacher Education Preschool is accredited by the National Association for the Education of Young Children.

Total Program Credits: 60

General Education Requirements:		36 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
	MATH 1050	College Algebra 4
or	MATH 1055	College Algebra with Preliminaries (5.0)
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)
	HIST 1740	US Economic History (3.0)
	POLS 1000	American Heritage (3.0)

POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 3100	Health Education for Elementary Teachers	2
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
PSY 1100	Human Development Life Span ("C" grade or higher)	3
Discipline Core Requirements:		23 Credits
EDEL 2200	Computer Technology in Education	2
EDEC 2300	Including Young Diverse Learners	2
EDEC 2500	Child Development Birth to Eight Years	3
EDEC 2600	Introduction to Early Childhood Education	2
EDEC 2610	Child Guidance	3
EDEC 2620	Early Childhood Curriculum	3
EDEC 2630	Literacy and Literature for Early Childhood	3
EDEC 2700	Early Childhood Practicum	3
EDEC 2720	Early Childhood Assessment	2
Elective Requirements:		1 Credits
	Any Advisor Approved elective	1

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. C- grade or higher in all program classes unless otherwise specified.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. First aid/CPR certification, food handler's permit, portfolio review and acceptance by Education Committee

Early Childhood Education, A.S.

Careers

Careers:
Teaching in early childhood programs and child care centers, Head Start teacher and teacher aide, teacher aid in elementary school, owner and director of preschool or child care center, Head Start Head Teacher.

Related Careers

- Preschool Teachers, Except Special Education
- Kindergarten Teachers, Except Special Education

Pre-Elementary Education, A.S.

Requirements

Prepares students for matriculation into the Bachelor of Science Professional Elementary Education program.

Total Program Credits: 61

Elementary Education

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or ENGL 2020	Intermediate Writing--Science and Technology	3
MATH 1050	College Algebra	4
or MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 3100	Health Education for Elementary Teachers	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
PSY 1100	Human Development Life Span (Social/ Behavioral Science)	3
Discipline Core Requirements:		15 Credits
Complete the following:		
EDEL 2200	Computer Technology in Education	2
EDEL 1010	Introduction to Education	2
EDEL 2330	Children's Literature	3
EDSP 3400	Exceptional Students	2
MATH 2010	Mathematics for Elementary Teachers I	3
MATH 2020	Mathematics for Elementary Teachers II	3
Elective Requirements:		10 Credits
Complete 10 of course 1000 or higher. The following is a list of recommended courses to choose from (the courses required for a degree in Early Childhood License are grouped together):		10
ART 3400	Elementary Art Education Methods (3.0)	
MUSC 3400	Music in the Elementary School (2.0)	
DANC 3400	Dance in the Elementary School (2.0)	
THEA 2200	Theatre and Drama in the Elementary School (3.0)	
PHIL 3450	Philosophy of Childhood (3.0)	
Early Childhood License		
EDEC 2300	Including Young Diverse Learners (2.0)	
EDEC 2500	Child Development Birth to Eight Years (3.0)	
EDEC 2600	Introduction to Early Childhood Education (2.0)	
EDEC 2610	Child Guidance (3.0)	

EDEC 2630	Literacy and Literature for Early Childhood (3.0)	
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Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Pre-Elementary Education, A.S. Careers

Careers:

Teacher aid within the Utah public or private education systems.

Related Careers

- Preschool Teachers, Except Special Education
- Kindergarten Teachers, Except Special Education

Early Care and Education, Certificate of Completion

Requirements

This certificate is for students interested in increasing their skills in working with children in child care and preschool programs. Individuals are prepared to work as technicians in public education classrooms and as teacher aides in private centers or Head Start.

Total Program Credits: 30

Discipline Core Requirements:		28 Credits
PSY 1100	Human Development Life Span (C grade or higher)	3
EDEC 1640	Childrens Music and Movement	2
EDEC 2300	Including Young Diverse Learners	2
or EDSP 3400	Exceptional Students (2.0)	
EDEC 2500	Child Development Birth to Eight Years	3
EDEC 2600	Introduction to Early Childhood Education	2
EDEC 2610	Child Guidance	3
EDEC 2620	Early Childhood Curriculum	3
EDEC 2630	Literacy and Literature for Early Childhood	3
EDEC 2700	Early Childhood Practicum	3
EDEC 2720	Early Childhood Assessment	2
EDEL 2200	Computer Technology in Education	2
Elective Requirements:		2 Credits
Advisor Approval		2

Graduation Requirements:

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 (C) or above. C- grade or higher in all program courses unless otherwise specified.
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. First aid/CPR certification, food handler's permit, portfolio review and acceptance by Education Committee.

Early Care and Education, Certificate of Completion Careers

Careers:
Individuals are prepared to work as aides in public education preschool classrooms, private centers, Head Start, or own and direct a private preschool or child care center.

Related Careers

- Preschool Teachers, Except Special Education
- Kindergarten Teachers, Except Special Education

Elementary Education, B.S.

Requirements

The Professional Elementary Teacher Education Program at Utah Valley University is designed to prepare quality, entry level candidates for teaching in elementary education programs grades K-6. Students successfully completing the UVU professional teacher education program graduation and licensure requirements receive a baccalaureate degree in Elementary Education and a Level I Utah Professional Teaching License. To continue in the teacher education program, students are expected to maintain all program standards. They must maintain expected levels of competence in all coursework, field work, and student teaching with all course grades at or above a B- and a program GPA of 3.00 or higher. Additionally, teacher candidates are expected to adhere to standards of personal integrity, responsibility, and citizenship commonly expected of professional educators. The UVU teacher education program is accredited by the Association for Advancing Quality in Educator Preparation (AAQEP), the Utah State Office of Education, and the Northwest Commission on Colleges and Universities.

Total Program Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra***	4
or	MATH 1055	College Algebra with Preliminaries (5.0) ***	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 3100	Health Education for Elementary Teachers	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	ART 3400	Elementary Art Education Methods (fulfills Fine Arts)	3
or	THEA 2200	Theatre and Drama in the Elementary School (fulfills Fine Arts) (3.0)	

or	MUSC 3400	Music in the Elementary School (fulfills Fine Arts) (2.0)	
and	DANC 3400	Dance in the Elementary School (2.0)	
	PSY 1100	Human Development Life Span ("C" grade or higher)	3
Discipline Core Requirements:			77 Credits
Pre-Professional Core Requirements: *			
	EDEL 1010	Introduction to Education **	2
	EDEL 2200	Computer Technology in Education **	2
	EDEL 2330	Childrens Literature **	3
	EDSP 3400	Exceptional Students **	2
	MATH 2010	Mathematics for Elementary Teachers I ***	3
	MATH 2020	Mathematics for Elementary Teachers II ***	3
	PETE 2150	Elementary Physical Education SPARK Method **	2
	SLSS 120R	Testing Strategies for Educators (1.0) **	1
Professional Education Core Requirements:			
	EDEL 3000	Educational Psychology	3
	EDEL 3050	Foundations of American Education	2
	EDEL 3100	Kindergarten Classroom	2
	EDEL 3250	Instructional Media	2
	EDEL 330G	Multicultural Understanding	3
	EDEL 3350	Curriculum Design and Assessment	3
	EDEL 4200	Classroom Management I	1
	EDEL 4210	Classroom Management II	1
	EDEL 4230	Classroom Management III	1
	EDEL 4240	Classroom Management IV	1
	EDEL 4400	Literacy Methods I	3
	EDEL 4410	Literacy Methods II	3
	EDEL 4420	Language Arts Methods	3
	EDEL 443G	Teaching English as a Second Language	3
	EDEL 4510	Elementary Math Methods I	3
	EDEL 4520	Elementary Science Methods	3
	EDEL 4530	Elementary Social Studies Methods	3
	EDEL 4540	Elementary Creative Arts Methods	3
	EDEL 4550	Elementary Math Methods II	3
	EDEL 4620	Differentiation for Special Populations	2
	EDEL 4880	Student Teaching--Grades K-6	10
	EDEL 4980	Elementary Education Capstone Seminar	1
Elective Requirements:			7 Credits
Complete additional credits to meet requirements			7
Recommended elective courses:			
	ART 3400	Elementary Art Education Methods (If not already taken) (3.0)	
	THEA 2200	Theatre and Drama in the Elementary School (If not already taken) (3.0)	
	DANC 3400	Dance in the Elementary School (If not already taken)_ (2.0)	

Elementary Education

	MUSC 3400	Music in the Elementary School (If not already taken) (2.0)	
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Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA).
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Application forms are available at the beginning of each Spring semester, must be completed by March 1st, and can be obtained in the Education Department, 801-863-8527.

Footnotes
* Students must complete all Pre-Professional and General Education courses with an overall GPA of 3.0 before they are formally admitted into the Teacher Preparation Program.
** Must be completed with a grade of B- or higher
*** Course requires a C grade or higher

Elementary Education, B.S.

Careers

Careers:
Career opportunities result from completion of the UVU Professional Teacher Education Program which qualifies students for a Level I Utah Professional Teaching License for grades K-6.

Related Careers

- Elementary School Teachers, Except Special Education

Emergency Services

Name:	Emergency Services
Location:	ES 217
Telephone:	801-863-7798
Email:	emsa@uvu.edu
Web Address:	uvu.edu/esa/
Chair:	Gary Noll

Mission Statement

The Emergency Services Department at Utah Valley University prepares practicing and future emergency service professionals through a program that balances technical skills, critical and ethical thinking, leadership, and effective communication. The department's programs address multiple emergency service educational needs, from professional certifications to degrees.

Degree programs and individual courses are designed to meet both state and national professional requirements, including those established by the Utah Fire Services Certification Council, the Utah Labor Commission, the United States Occupational Safety and Health Administration (OSHA), the National Fire Protection Association (NFPA), the United States Department of Homeland Security (DHS), the Federal Emergency Management Association (FEMA), the National Fire Academy (NFA), and the National Wildfire Coordinating Group (NWCG).

Emergency Services

- **Department Chair:** Gary Noll
- **Office:** ES 202a
- **Telephone:** 801-863-7741
- **Email:** Gary.Noll@uvu.edu
- **Administrative Support:** Patty Perkes
- **Office:** ES 202
- **Telephone:** 801-863-7753
- **Email:** patty.perkes@uvu.edu
- **Recruit Candidate Academy:** Andy Byrnes
- **Office:** ES 141
- **Telephone:** 801-863-7721
- **Email:** byrnesan@uvu.edu
- **Paramedic/EMT:** Steve Allred
- **Office:** ES 119
- **Telephone:** 801-863-7730
- **Email:** sallred@uvu.edu
- **Wildland Firefighting:** Dan Cather
- **Office:** FS 205
- **Telephone:** 801-863-7423
- **Email:** catherda@uvu.edu
- **Institute for Emergency Services and Homeland Security:** John Fisher
- **Office:** ES 120
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Advisors:

- Bonnie Lamb
-
- **Office:** ES 217
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- Shalece Nuttall
- **Office:** ES 217
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- **Email:** shalece.nuttall@uvu.edu
-

Web: www.uvu.edu/esa

CAREER OPPORTUNITIES

Federal Emergency Management Agency	State, County and Municipal Fire Departments
The United States Department of Defense	State, County and Municipal Police Departments
The United States Department of Homeland Security	State, County and Municipal Emergency Management Departments
Federal Fire and Emergency Service Agencies	Private Industries to include the Insurance Industry
Federal Law Enforcement Agencies	Public and Private Loss Prevention Positions

Employment Outlook

Profession	Positions (Nationally)	Median Income
Emergency Manager	10,500+*	\$70,500*
Law Enforcement	839,500+*	\$61,600*
Fire and Rescue	344,700+*	\$48,030*
Fire Inspectors and Investigators	15,000+*	\$56,130*

*Current employment/salary statistics according to the Bureau of Labor Statistics

Class Scheduling

Emergency Services classes are scheduled to meet the needs of traditional students and firefighters working various shift assignments. During each semester, classes are offered during the day, afternoons, evenings, weekends, and online. For more information, call (801) 863-7798, or check our web page at www.uvu.edu/esa.

Program Requirements for Enrollment-Firefighter Recruit Candidate Academy (RCA)

Recruit Candidate Academy courses include ESFF 250A and 250B. Enrollment is done by means of a program application process. Prior to enrollment students must:

1. Complete all UVU admission requirements
2. Complete ESFF 1000 with a grade of C- or higher
3. Complete ESFF 1120 with a grade of C- or higher
4. Be NREMT certified or complete an EMT course through UVU or another recognized agency/institution
5. Show English and math competency through test scores or course completion: complete ENGL 1000 and MAT 0950 with C- grades or higher OR test into ENGL 1010 and MAT 1000 or higher
6. Be at least 18 years old and have a valid driver's license
7. Meet with an Emergency Services advisor for application

Certificate of Completion: Firefighter Recruit Candidate

Complete the following courses with a minimum grade of C- or higher:

- ESEC 114A, ESEC 114B, and ESEC 114C--Emergency Medical Technician – Basic (9.0 Credits)
- ESFF 1000 Introduction to Emergency Services and Ability Testing (4.0 Credits)
- ESFF 1120 Principles of Fire and Emergency Services Safety and Survival (3.0 Credits)
- ESFF 250A Recruit Candidate Academy I (8.0 Credits)
- ESFF 250B Recruit Candidate Academy II (8.0 Credits)

Emergency Services

Must maintain a minimum grade point average (GPA) of 2.0

CERTIFICATION: Upon completion of courses for the Recruit Candidate Academy certificate, students will be certified at the Firefighter I, Firefighter II, Hazardous Materials Awareness and Hazardous Materials First Responder-Operations levels through the Utah Fire Service Certification System. Students are required to complete an Emergency Medical Technician-Basic level course. EMT certification is not required to complete RCA.

Program Requirements for Enrollment—Paramedic

Paramedic courses include ESEC 3110, ESEC 3120, ESEC 3130, ESEC 3140, ESEC 4110, and ESEC 4120. Enrollment is done by means of a program application process. Prior to enrollment students must:

1. Complete Anatomy and Physiology (transfer credit accepted) with a grade of C or higher: ZOOL 1090 (requires BIOL 1010 as a pre-req) or ZOOL 2320 and 2420 with labs (requires BIOL 1610 and CHEM 1110 as pre-reqs).
2. Meet the English requirement: Completion of ENGH 1000 with C- grade or higher, or placement into ENGH 1010 or higher (valid test scores).
3. Meet the Math requirement: Completion of MAT 0950 with a grade of C- or higher, or placement into MAT 1000 or higher (valid test scores).
4. Have Utah EMT certification that is valid through the end of the second semester of the program.
5. Have current CPR certification.
6. Successful completion of criminal background requirements (UVU and State of Utah Bureau of Emergency Medical Services).
7. Be at least 18 years old and have a valid driver's license.
8. Have current vaccinations as required by Utah Bureau of EMS.
9. Have current TB test results as required by Utah Bureau of EMS.
10. Obtain a current physical examination.
11. Complete UVU paramedic application process and be accepted to the program.

Program Requirements for Enrollment—Paramedic

Complete the following courses with a minimum grade of C- or higher:

- ESEC 3110 Paramedic I (5.0 Credits)
- ESEC 3120 Paramedic I Lab (3.0 Credits)
- ESEC 3130 Paramedic II (7.0 Credits)
- ESEC 3140 Paramedic III (4.0 Credits)
- ESEC 4110 Paramedic IV (6.0 Credits)
- ESEC 4120 Paramedic Clinical Concepts (6.0 Credits)

Must maintain a minimum grade point average (GPA) of 2.0.

CERTIFICATION: Upon completion of courses for the paramedic certificate of completion at UVU, students will receive all or part of the following certifications/ certificates: Certificate of Completion – UVU Paramedic, Basic Life Support (BLS), Pediatric Advanced Life Support (PALS), Advanced Cardiac Life Support (ACLS), Pre-hospital Trauma Life Support (PHTLS), Advanced Medical Life Support (AMLS), Geriatric Education for EMS (GEMS), Neonatal Resuscitation Program (NRP), Hazardous Materials Awareness (eligible for state testing), Law Enforcement First Responder (LEFR), Fundamentals of Airway.

NATIONAL REGISTRY CERTIFICATION: Students will NOT automatically be recommended for the National Registry exams. Recommendation requires a minimum 3.0 GPA for all UVU paramedic courses.

Students may earn only one Associate in Applied Science Degree in Emergency Services that is posted to the UVU transcript.

DEPARTMENT CHAIR

NOLL, Gary B. Professor

FACULTY

ALLRED, Steven Associate Professor

BROOME, Rodger Assistant Professor

BYRNES, Andrew Associate Professor

FISHER, John Associate Professor

HOLLEY, Steve Assistant Professor

LINDQUIST, Chris Lecturer

MAXFIELD, Jeff Professor

MCCARTHY, Kevin P. Assistant Professor

MITTELMAN, Margaret A. Professor

NOLL, Gary B. Professor

RUSSELL, Eric James Associate Professor

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Degrees & Programs

Emergency Services - Aviation Fire Officer Emphasis, A.A.S.

Requirements

This program fills a need for a comprehensive aerospace emergency services curriculum to meet the challenges of the aircraft rescue fire fighting career field.

Total Program Credits: 63

General Education Requirements:			16 Credits
	ENGL 1010	Introduction to Writing (3.0)	3
	ESFO 1350	Fire Protection Hydraulics and Water Supply (3.0)	3
or	MAT 1010	Intermediate Algebra (4.0)	
or	MAT 1000	Integrated Beginning and Intermediate Algebra (5.0)	
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended)		3
	Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended)		3
	Any approved Biology or Physical Science Distribution Course		3
	Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended)		1
Discipline Core Requirements:			16 Credits
	ESEC 1140	Emergency Medical Technician--Basic	9
or	ESEC 114A	Emergency Medical Technician-Part I (3.0)	
and	ESEC 114B	Emergency Medical Technician-Part II (4.0)	
and	ESEC 114C	Emergency Medical Technician-Part III (2.0)	
	ESFF 1000	Introduction to Emergency Services and Ability Testing	4

	ESFF 2100	Introduction to Emergency Services Leadership	3
Emphasis Requirements:			15 Credits
	ESAF 2100	Airport Firefighter	3
	ESAF 2110	Aircraft Related Mass Casualty Incidents	3
	ESAF 2120	Aircraft Mishaps	3
	ESAF 2130	Aviation Terrorism Response	3
	ESAF 2140	Airport Operations for the Emergency Responder	3
Emphasis Elective Requirements:			16 Credits
	Any Emergency Services or related advisor approved courses		16

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Emergency Services - Aviation Fire Officer Emphasis, A.A.S. Careers

Careers:
Students who complete this degree are eligible for promotion in the fire service.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Emergency Services - Fire Officer Emphasis, A.A.S.

Requirements

Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

[Online Degree Plan](#)

Total Program Credits: 63

General Education Requirements:			16 Credits
	ENGL 1010	Introduction to Writing (3.0)	3
	ESFO 1350	Fire Protection Hydraulics and Water Supply (3.0)	3
or	MAT 1010	Intermediate Algebra (4.0)	
or	MAT 1000	Integrated Beginning and Intermediate Algebra (5.0)	
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended)			3
Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended)			3
Any approved Biology or Physical Science Distribution Course			3
Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended)			1
Discipline Core Requirements:			16 Credits

	ESEC 1140	Emergency Medical Technician--Basic (9.0)	9
or	ESEC 114A	Emergency Medical Technician-Part I (3.0)	
and	ESEC 114B	Emergency Medical Technician-Part II (4.0)	
and	ESEC 114C	Emergency Medical Technician-Part III (2.0)	
	ESFF 1000	Introduction to Emergency Services and Ability Testing	4
	ESFF 2100	Introduction to Emergency Services Leadership	3
Emphasis Requirements:			15 Credits
Choose 15 credits from the following:			15
	ESFO 1100	Fire Behavior and Combustion (3.0)	
	ESFO 1110	Fire Prevention (3.0)	
	ESFF 1120	Principles of Fire and Emergency Services Safety and Survival (3.0)	
	ESFO 1350	Fire Protection Hydraulics and Water Supply (3.0)	
	ESFO 2030	Fire Inspector I (3.0)	
	ESFO 2050	Fire Protection and Detection Systems (3.0)	
	ESFO 2080	Building Construction for the Fire Services (3.0)	
	ESFO 2100	Fire Officer I: Supervision and Leadership (3.0)	
	ESFO 2310	Fire Investigator I (3.0)	
Emphasis Elective Requirements:			16 Credits
	Any Emergency Services or related advisor approved courses		16

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Emergency Services - Fire Officer Emphasis, A.A.S. Careers

Careers:
Students who complete this degree are prepared to gain employment or promotion in the fire service.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Emergency Services - Firefighter/Emergency Care Emphasis, A.A.S.

Requirements

Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

[Online Degree Plan](#)

Total Program Credits: 63

General Education Requirements:			16 Credits
	ENGL 1010	Introduction to Writing (3.0)	3

Emergency Services

	ESFO 1350	Fire Protection Hydraulics and Water Supply (3.0)	3
or	MAT 1010	Intermediate Algebra (4.0)	
or	MAT 1000	Integrated Beginning and Intermediate Algebra (5.0)	
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended)			3
Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended)			3
Any approved Biology or Physical Science Distribution Course			3
Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended)			1
Discipline Core Requirements:			16 Credits
	ESEC 1140	Emergency Medical Technician--Basic (9.0)	9
or	ESEC 114A	Emergency Medical Technician-Part I (3.0)	
and	ESEC 114B	Emergency Medical Technician-Part II (4.0)	
and	ESEC 114C	Emergency Medical Technician-Part III (2.0)	
	ESFF 1000	Introduction to Emergency Services and Ability Testing (4.0)	4
	ESFF 2100	Introduction to Emergency Services Leadership (3.0)	3
Emphasis Requirements:			15 Credits
Choose one of the following options:			15
Firefighter Option			
	ESFF 250A	Firefighter Recruit Candidate Academy I (8.0)	
	ESFF 250B	Firefighter Recruit Candidate Academy II (8.0)	
Student/Non-Affiliated Option			
	ESEC 3110	Paramedic I (5.0)	
	ESEC 3120	Paramedic I Lab (3.0)	
	ESEC 3130	Paramedic II (7.0)	
Paramedic/Affiliated Option			
	ESMG 491R	Topics in Cardiology and Medical Trends (Repeatable for a maximum of 6 credits) (1.0)	
	ESMG 492R	Topics in Trauma and Pharmacology (Repeatable for a maximum of 6 credits) (1.0)	
	ESMG 493R	Topics in Medical Litigation (Repeatable for a maximum of 4 credits) (1.0)	
Emphasis Elective Requirements:			16 Credits
	Any Emergency Services or related advisor approved courses		16

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

NOTE: Upon completion, students are eligible to apply for certification as an Emergency Medical Technician-Paramedic through the Utah Bureau of Emergency Medical Services.

Emergency Services - Firefighter/Emergency Care Emphasis, A.A.S.

Careers

Careers:
Students who complete this degree are prepared to gain employment or promotion in the fire service or emergency field.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Emergency Services, A.S.

Requirements

Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

[Online Degree Plan](#)

Total Program Credits: 60

General Education Requirements:			35 Credits
Complete the following:			
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2

Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		25 Credits
ESFF 1000	Introduction to Emergency Services and Ability Testing	4
or	ESFF 100A	Introduction to Emergency Services (3.0)
and	ESFF 100B	Firefighter Physical Ability Testing (1.0)
or	Sufficient Emergency Services work experience	
ESFF 2100	Introduction to Emergency Services Leadership	3
Any Emergency Services advisor approved courses		18

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**Emergency Services, A.S.
Careers**

Careers:
Students who complete this degree are prepared to gain employment or promotion in the fire service, emergency services, or law enforcement.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Wildland Fire Management, A.A.S.

Requirements

Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Wildland Firefighting, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

Total Program Credits: 63

General Education Requirements:		16 Credits
ENGL 1010	Introduction to Writing	3
ESFO 1350	Fire Protection Hydraulics and Water Supply	3
or	MAT 1010	Intermediate Algebra (4.0)
or	MAT 1000	Integrated Beginning and Intermediate Algebra (5.0)
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course (COMM 1020 Recommended)		3
Any approved Behavioral Science, Social, or Political Science Distribution Course (PSY 1010 or SOC 1010 Recommended)		3
Any approved Biology or Physical Science Distribution Course		3

Any approved Physical Education, Health, Safety or Environment Course (PES 1097 recommended)		1
Discipline Core Requirements:		18 Credits
Choose 18 credits from the following:		18
ESWF 1310	S131 Firefighter Type 1 (0.5)	
ESWF 1330	S133 Look Up Look Down Look Around (0.5)	
ESWF 1400	Wildland Firefighting Fundamentals (4.0)	
ESWF 1410	Wildland Firefighter Internship I (5.0)	
ESWF 1420	Wildland Firefighter Internship II (5.0)	
ESWF 2000	S200 Initial Attack Incident Commander Type 4 (1.0)	
ESWF 2010	I200 Basic Incident Command System (1.0)	
ESWF 2110	S211 Portable Pumps and Water Use (1.5)	
ESWF 2150	S215 Fire Operations in the Wildland Urban Interface (2.0)	
ESWF 2301	S230 Crew Boss Single Resource (2.0)	
ESWF 2340	S234 Ignition Operations (2.0)	
ESWF 2430	Wildland Firefighter Internship III (5.0)	
ESWF 2600	S260 Interagency Incident Business Management (1.0)	
ESWF 2700	S270 Basic Air Operations (1.0)	
ESWF 2800	L280 Followership to Leadership (1.0)	
ESWF 2900	S290 Intermediate Wildland Fire Behavior (2.0)	
Elective Requirements:		29 Credits
Any Emergency Services or Advisor approved courses		29

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**Wildland Fire Management, A.A.S.
Careers**

Careers:
Students who complete this degree are prepared to gain employment or promotion in the wildland firefighting.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Aviation Fire Officer, Certificate of Proficiency

Requirements

Total Program Credits: 27

Matriculation Requirements:	
1. Firefighter II Certification	
Discipline Core Requirements:	15 Credits

Emergency Services

ESAF 2100	Airport Firefighter (3.0)	3
ESAF 2110	Aircraft Related Mass Casualty Incidents (3.0)	3
ESAF 2120	Aircraft Mishaps (3.0)	3
ESAF 2130	Aviation Terrorism Response (3.0)	3
ESAF 2140	Airport Operations for the Emergency Responder (3.0)	3
Elective Requirements:		12 Credits
Any Emergency Services or related advisor approved courses		12

Graduation Requirements:

1. Completion of a minimum of 30 credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 7 credit hours through course attendance at UVU.

Aviation Fire Officer, Certificate of Proficiency Careers

Aviation Fire Officer, Certificate of Completion Careers

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Firefighter Recruit Candidate, Certificate of Completion

Requirements

Our degree provides our students with the knowledge, skills, and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills, and abilities to advance in their careers.

Total Program Credits: 32

Discipline Core Requirements:		32 Credits
Complete the following:		
ESEC 1140	Emergency Medical Technician--Basic	9
or	ESEC 114A	Emergency Medical Technician-Part I (3.0)
and	ESEC 114B	Emergency Medical Technician-Part II (4.0)
and	ESEC 114C	Emergency Medical Technician-Part III (2.0)
	ESFF 1000	Introduction to Emergency Services and Ability Testing
or	ESFF 100A	Introduction to Emergency Services (3.0)
and	ESFF 100B	Firefighter Physical Ability Testing (1.0)
	ESFF 1120	Principles of Fire and Emergency Services Safety and Survival
	ESFF 250A	Firefighter Recruit Candidate Academy I
	ESFF 250B	Firefighter Recruit Candidate Academy II

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above, with completion of each Emergency Services class with a C- or higher.
2. Completion of a minimum of 32 credits.
3. Residency hours -- Minimum of 10 credits required through course attendance at UVU. 0.0

Note: CERTIFICATION: Upon completion of courses for the Basic Recruit Certificate, students are eligible to apply for certification at the Firefighter I, Firefighter II, Hazardous Materials First Responder-Awareness and Hazardous Materials First Responder-Operations levels through the Utah Fire Science Certification System. Students are also eligible for certification at the Emergency Medical Technician-Basic level through the Utah Bureau of Emergency Medical Services.

Firefighter Recruit Candidate, Certificate of Completion Careers

Careers:
Students who complete this degree are prepared to gain employment in the fire service.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Paramedic, Certificate of Completion

Requirements

Our degree provides our students with the knowledge, skills and abilities to assist them in obtaining a job in Emergency Services, or if already employed, to give them the knowledge, skills and abilities to advance in their careers.

Total Program Credits: 31

Discipline Core Requirements:		31 Credits
Complete the following:		
ESEC 3110	Paramedic I	5
ESEC 3120	Paramedic I Lab	3
ESEC 3130	Paramedic II	7
ESEC 3140	Paramedic III	4
ESEC 4110	Paramedic IV	6
ESEC 4120	Paramedic Clinical Concepts	6

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.) Upon completion, students are eligible to apply for certification as an Emergency Medical Technician/Paramedic through the Utah Bureau of Emergency Medical Services.
2. Completion of a minimum of 31 credits.
3. Overall GPA of 2.0 or higher.
4. Residency hours -- Minimum of 10 credits required through course attendance at UVU.

Paramedic, Certificate of Completion Careers

Careers:
Students who complete this degree are prepared to gain employment in the fire service or emergency field.

Related Careers

- Health Specialties Teachers, Postsecondary
- Emergency Medical Technicians and Paramedics

Emergency Services Administration - Emergency Care Emphasis, B.S.

Requirements

A degree in emergency services prepares practicing and future emergency service professionals through a program that balances technical skills, critical and ethical thinking, leadership, and effective communication. The department's programs address multiple emergency service educational needs, from professional certifications to degrees.

[Online Degree Plan](#)

Total Program Credits: 126

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science (ES 1150 Community Emergency Preparedness recommended)		3
Discipline Core Requirements:		28 Credits	
	ESFF 1000	Introduction to Emergency Services and Ability Testing	4
or	Sufficient Emergency Services work experience		
or	ESFF 100A	Introduction to Emergency Services (3.0)	
and	ESFF 100B	Firefighter Physical Ability Testing (1.0)	

	ESEC 1140	Emergency Medical Technician--Basic	9
or	ESEC 114A	Emergency Medical Technician-Part I (3.0)	
and	ESEC 114B	Emergency Medical Technician-Part II (4.0)	
and	ESEC 114C	Emergency Medical Technician-Part III (2.0)	
	ESMG 310G	Introduction to Homeland Security	3
	ESMG 3150	Principles of Management for the Emergency Services	3
	ESMG 3600	Psychology of Emergency Services	3
	ESMG 4600	Public Administration for the Emergency Services	3
	ESMG 4650	Emergency Services Capstone	3
Elective Requirements:		32 Credits	
	Any Emergency Services or related advisor approved courses.		15
	Any courses 1000 or higher		17
Emphasis Requirements:		31 Credits	
Choose one of the following two options for 31 credits:		31	
Student/Non-Affiliated Option			
	ESEC 3110	Paramedic I (5.0)	
	ESEC 3120	Paramedic I Lab (3.0)	
	ESEC 3130	Paramedic II (7.0)	
	ESEC 3140	Paramedic III (4.0)	
	ESEC 4110	Paramedic IV (6.0)	
	ESEC 4120	Paramedic Clinical Concepts (6.0)	
Paramedic/Affiliated Option			
	ESMG 481R	Emergency Services Internship (1.0) 1	
	ESMG 491R	Topics in Cardiology and Medical Trends (1.0) 2	
	ESMG 492R	Topics in Trauma and Pharmacology (1.0) 3	
	ESMG 493R	Topics in Medical Litigation (1.0) 4	

Graduation Requirements:

1. Completion of a minimum of 126 semester credits.
2. Overall grade point average of 2.0 (C) or above, with completion of each Emergency Services class with a "C-" or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Footnotes:

- 1-Repeatable for a maximum of 15 credits.
- 2-Repeatable for a maximum of 6 credits.
- 3-Repeatable for a maximum of 6 credits.
- 4-Repeatable for a maximum of 4 credits.

Emergency Services Administration - Emergency Care Emphasis, B.S. Careers

Careers:

Our Bachelor of Science degree will afford our graduates a wide range of employment opportunities in the fire service and medical field.

Emergency Services

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Emergency Services Administration - Emergency Leadership Emphasis, B.S.

Requirements

A degree in emergency services prepares practicing and future emergency service professionals through a program that balances technical skills, critical and ethical thinking, leadership, and effective communication. The department's programs address multiple emergency service educational needs, from professional certifications to degrees.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science (ES 1150 Community Emergency Preparedness recommended)		3
Discipline Core Requirements:		28 Credits
ESFF 1000	Introduction to Emergency Services and Ability Testing	4

or	Sufficient Emergency Services work experience		
or	ESFF 100A	Introduction to Emergency Services (3.0)	
and	ESFF 100B	Firefighter Physical Ability Testing (1.0)	
	ESEC 1140	Emergency Medical Technician--Basic	9
or	ESEC 114A	Emergency Medical Technician-Part I (3.0)	
and	ESEC 114B	Emergency Medical Technician-Part II (4.0)	
and	ESEC 114C	Emergency Medical Technician-Part III (2.0)	
	ESMG 310G	Introduction to Homeland Security	3
	ESMG 3150	Principles of Management for the Emergency Services	3
	ESMG 3600	Psychology of Emergency Services	3
	ESMG 4600	Public Administration for the Emergency Services	3
	ESMG 4650	Emergency Services Capstone	3
Elective Requirements:			32 Credits
	Any Emergency Services or related advisor approved courses.		15
	Any courses 1000 or higher		17
Emphasis Requirements:			25 Credits
Complete 25 credits from the following:			25
	ESMG 3300	Master Planning for Public Emergency Services (3.0)	
	ESMG 3350	Analytical Research Approaches to Public Emergency Services (3.0)	
	ESMG 3400	Critical Infrastructure Protection (3.0)	
	ESMG 4150	Humanitarian Services and Disaster Relief (3.0)	
	ESMG 4200	Disaster Response and the Public (3.0)	
	ESMG 425G	Crisis and Disaster Management (3.0)	
	ESMG 4400	Legal Considerations for the Emergency Services (3.0)	
	ESMG 445G	Human Factors in Emergency Management (3.0)	
	ESMG 4550	Principles of Disaster and Emergency Management (3.0)	
	ESMG 489R	Special Topics in Emergency Management (1.0) ¹	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above, with completion of each Emergency Services class with a "C-" or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Footnote:

1-May be repeated for a maximum of 6 credits

Emergency Services Administration - Emergency Leadership Emphasis, B.S. Careers

Careers:

Our Bachelor of Science degree will afford our graduates a wide range of employment opportunities in the fire service, medical field, law enforcement, military, community, and corporate entities.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

**Emergency Services Administration -
Emergency Management and Disaster
Assistance Emphasis, B.S.**

Requirements

The Emergency Management and Disaster Assistance emphasis is designed to meet the needs of students aspiring for a career in emergency management and/or disaster assistance at the local, regional, state, or national level.

[Online Degree Plans](#)

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3

Social/Behavioral Science (ES 1150 Community Emergency Preparedness recommended)		3
Discipline Core Requirements:		28 Credits
Complete one of the following:		4
ESFF 1000	Introduction to Emergency Services and Ability Testing	
or	Sufficient Emergency Services work experience	
or ESFF 100A	Introduction to Emergency Services (3.0)	
and ESFF 100B	Firefighter Physical Ability Testing (1.0)	
Complete one of the following:		9
ESEC 1140	Emergency Medical Technician--Basic	
or ESEC 114A	Emergency Medical Technician-Part I (3.0)	
and ESEC 114B	Emergency Medical Technician-Part II (4.0)	
and ESEC 114C	Emergency Medical Technician-Part III (2.0)	
ESMG 310G	Introduction to Homeland Security	3
ESMG 3150	Principles of Management for the Emergency Services	3
ESMG 3600	Psychology of Emergency Services	3
ESMG 4600	Public Administration for the Emergency Services	3
ESMG 4650	Emergency Services Capstone	3
Elective Requirements:		32 Credits
Any Emergency Services or related advisor approved courses.		15
Any courses 1000 or higher		17
Emphasis Requirements:		25 Credits
ESMG 3400	Critical Infrastructure Protection	3
ESMG 4150	Humanitarian Services and Disaster Relief	3
ESMG 4200	Disaster Response and the Public	3
ESMG 425G	Crisis and Disaster Management	3
ESMG 4550	Principles of Disaster and Emergency Management	3
Complete 10 credits from the following:		10
ESMG 3350	Analytical Research Approaches to Public Emergency Services (3.0)	
ESMG 3300	Master Planning for Public Emergency Services (3.0)	
ESMG 445G	Human Factors in Emergency Management GI (3.0)	
ESMG 481R	Emergency Services Internship (1.0)	
ESMG 489R	Special Topics in Emergency Management (1.0) ¹	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above, with completion of each Emergency Services class with a "C-" or higher.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Footnote:

Emergency Services

1-May be repeated for a maximum of 6 credits

Emergency Services Administration - Emergency Management and Disaster Assistance Emphasis, B.S. Careers

Careers:

Our Bachelor of Science degree will afford our graduates a wide range of employment opportunities in the fire service and medical field.

Related Careers

- Firefighters
- Fire Inspectors and Investigators
- Forest Fire Inspectors and Prevention Specialists
- Forest Fire Inspectors and Prevention Specialists

Engineering Design Technology

Name:	Engineering Design Technology
Location:	CS 704
Telephone:	801-863-8363
Email:	bigeloch@uvu.edu
Web Address:	uvu.edu/engineering_design/
Chair:	Robert Price

Mission Statement

The mission of the UVU Engineering Design Technology program (EGDT) is to prepare future professionals to engage in diverse design, modeling, and drafting, surveying, and mapping disciplines. The program cultivates an elevated commitment to work ethic, quality, productivity, and service. Successful graduates will be dynamic self-starters and lifelong learners who are serious about work and accept the stewardship of designing the future.

Engineering Design Technology

- **Administrative Support:** Christine Bigelow
- **Office:** CS 704
- **Telephone:** 801-863-8363
- **Advisor:** Monica Ferreyra
- **Office:** CS 635
- **Telephone:** 801-863-8350

Advisory Committees:

Architectural

Curtis Miner, CMA Architecture; Jeff Adams, Jeff Adams Designs; Alan Shurtliff, Pontis Architectural Group; Tyson Munford, Rooftop Anchors, Inc.

Civil

Glen Barton, Foster Wheeler USA Corporation; Matt Brown, MW Brown Engineering; Brant Tuttle, Northern Engineering.

Electrical

Kevin Armatage, L-3 Communications; Nathan Sweat, Royal Engineering

Mechanical

Doug Nordin, Professional Systems Technology

Structural

Paul Thorley, Acute Engineering; Rob Schoen, Axis Steel Detailing; Steve Holdaway, Tectonix Steel

Related Industries

Ken Zabriskie, IM Flash; Shawn Herring, ProSoft; Alan Beddingfield, Steel Encounters

Geomatics/Surveying

Von Hill, Entellus; Gary Christensen, GDA Engineers; Kevin Bishop, Oak Hills Surveying

Career Opportunities

The Engineering Design Technology program prepares students for design, 3D modeling, surveying, and drafting careers in mechanical, architectural, structural, civil, and electrical/electronic fields. Jobs are available with architects, cities, counties, states, the federal government, engineering and surveying companies, mines, research

and development companies, and the mechanical, structural steel, architectural development, electronics, construction, and fire protection industries. In addition, because of the broad nature of the program, graduates are prepared to succeed in most technical fields. For example, they can work as manufacturing, industrial engineering, and construction technicians as well as in functional areas of purchasing, estimating, bidding, plant management, quality control, expediting, and sales.

Job Description – Engineering Design Technology

Engineering Design Technicians (formerly Drafters/Designers) translate ideas from design layouts, specifications, rough sketches, and calculations of engineers & architects into working drawings, maps, plans, and illustrations which are used in the development and/or production of products, structures, land development, and civil infrastructure. They prepare 3D computer models and 2D drawings using Computer Aided Drafting, Design, and 3D modeling systems. They perform design and drafting work in mechanical, electrical/electronic, structural, architectural, civil, piping, and technical illustration fields. They make mathematical calculations using algebra, trigonometry, plane and solid geometry, applied mechanics, strength of materials and basic physics.

The Engineering Design Technician works closely with both professional and nonprofessional people and acts as a liaison between the shop or field and the engineering office. Professional appearance and work habits are essential.

Job Description – Surveying & Geographic Information Systems Technicians & Professionals

Surveying Technicians work out-of-doors performing surveys of property boundaries as well as roads, pipelines, subdivisions, and all types of construction projects. They may also work in specialized fields such as mining and hydrographic surveying. They use levels, total and robotic stations, global positioning systems and aerial photogrammetry instruments. They make mathematical calculations using algebra, trigonometry, and plane and solid geometry. Using GIS and other computer-aided drafting (CAD) software to produce various types of maps depicting their field surveying work.

Survey Technicians possess good human relations skills and professional work ethics and habits to be able to work closely with other professional surveyors, civil engineers, and architects as well as the public.

Programs

Students in the Engineering Design Technology program may earn Certificates of Proficiency (Architectural Design Technology, Civil Design Technology, Mechanical Design Technology and Structural Design Technology), an Associate in Applied Science Degree, an Associate in Science Degree with an Engineering Design Technology pre-major or a Bachelor of Science in Technology Management Degree in Engineering Design Technology.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

Due to the technical nature of the material in the following courses, additional reading and math instruction may be required. More information will be given during advisement.

Cooperative Education

Cooperative Education is highly recommended as an elective in these majors. Two credits may be applied towards graduation.

Geomatics

- **Program Coordinator:** Daniel L. Perry
- **Office:** CS 704c
- **Telephone:** 801-863-8525
- **Advisor:** Monica Ferreyra
- **Office:** CS 635
- **Telephone:** 801-863-8350

Career Opportunities

Engineering Design Technology

The Geomatics program prepares students to enter the workplace in a variety of disciplines. Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser/LIDAR scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), geography and some elements of civil engineering. Geomatics not only encompasses traditional land surveying but today also includes geography and other disciplines which integrate acquisition, modeling, analysis, and management of geo-spatial reference data. Some students will have opportunities to work for organizations such as the National Geodetic Survey (NGS), National Oceanic and Atmospheric Administration (NOAA), Bureau of Land Management (BLM), National Aeronautics and Space Administration (NASA), national, state, county, and city governmental agencies, universities and colleges, and private surveying and engineering firms.

Job Description

Some of the positions held by Geomatics graduates are: Professional Land Surveyors, Survey technicians, Cartographers, Photogrammetrists, Geographic Information Systems (GIS) specialists, GIS professionals, Drafters, Civil engineering technicians, Environmental specialists, and Urban/Regional planners. Survey Technicians do some of their work in offices but much of their work takes place out-of-doors where they perform surveys of public lands, private properties, roads and highways, pipelines, large buildings, and subdivisions, as well as all types of geospatial measurement and construction projects. The surveyor technician is required to know real property and boundary laws as well as possess an exceptional knowledge of sophisticated geospatial measurement instrumentation like GPS, Robotic Stations, 3D Laser Scanners, and UAV's. Licensed Surveyors are required to make various mathematical calculations using algebra, trigonometry, calculus, and solid/plane geometry. Using GIS and other computer-aided drafting (CAD) software to produce various types of technical maps and other deliverables of 3D data for use by professionals in related disciplines as well as the general public.

Eventually, many surveying technicians will become licensed as professional land surveyors and GIS professionals.

Programs

Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), and some parts of geography and civil engineering.

Geomatics is a discipline which integrates acquisition, modeling, analysis, and management of geo-spatial reference data. Based on the scientific framework of geodesy, it uses terrestrial, marine, airborne, satellite -based sensors, and measurement systems and technologies to acquire spatial and other data. The Land Surveying component of Geomatics includes investigation, analysis, and application of boundary/property laws and legal principles pertaining to specific public and private properties and is a regulated profession wherein a license to practice land surveying is issued by each state in an effort to protect the public and private interests in property boundaries, as well as surveying control for construction projects.

Students in the Geomatics program may earn an Associate in Science in Geomatics which will help them be immediately employable as entry level Surveyor or GIS technician. Students may also earn a Bachelor of Science in Geomatics which will prepare them to successfully pass the national Fundamentals of Surveying (FS) exam which is a significant step towards professional surveying licensure. The bachelor degree program has been developed around four core disciplines which build on an in-depth foundation of knowledge needed for the professional practice of surveying and GIS. Geomatics program goals are to continue to encourage student interest in obtaining graduate degrees in the field of Geomatics from other nationally ranked institutions. The program is operating under an annual cohort system starting in the fall semester of each year, so spring matriculation is required to ensure that each prospective student completes all required prerequisites prior to entrance into a cohort.

Reminder: An overall grade point average 2.5 or above with a minimum of 3.0 GPA in all Geomatics courses. No grade lower than a "B" in core discipline courses including: (Geomatics, Measurement, Legal Principles, and Surveying Services Core).

Due to the technical nature of the material in the following courses, additional reading, math, and computer instruction may be required. More information will be given during advisement.

Cooperative Education

Cooperative education is highly recommended as an elective(s) in this major. As much as six (6) credit hours of electives are allowed in the bachelor degree program as internship credits.

College of Technology & Computing

- **Dean:** Saeed Moaveni
- **Office:** CS 720
- **Telephone:** 801-863-8237

DEPARTMENT CHAIR

PRICE, Robert D. Associate Professor

FACULTY

ALLRED, Jonathan Assistant Professor

BARKER, David B. Assistant Professor

BEZZANT, Howard Associate Professor

KENDALL, Rodney G. Professor

MANNING, David Professor

PERRY, Danial L. Associate Professor

PRICE, Robert D. Associate Professor

SELVARAJAN, Sowmya Assistant Professor

SMITH, Sidney D. Associate Professor

TAYLOR, Darin Professor

Course Descriptions

Engineering Graphics and Design Technology.....	675
Geographic Information Systems.....	715
Land Surveying.....	811

Degrees & Programs

Engineering Design Technology, A.A.S.

Requirements

The Associate in Applied Science Degree is a "job ready" degree and applies the technical and functional elements of several Drafting and Design fields. Students will take courses in the fundamentals of drafting and design, industry standard two-dimensional and three-dimensional software, Architectural Design, Civil Design and Surveying, Electrical Design, Mechanical Design, and Structural Steel Detailing and Design. Students will take other supporting classes and advanced courses in a minimum of two specialty areas of their choosing.

Total Program Credits: 67

General Education Requirements:		19 Credits
ENGLISH		3
	ENGL 1010	Introduction to Writing (3.0)
or	MKTG 2200	Written Business Communication (3.0)
MATHEMATICS		
	EGDT 1600	Technical Math--Algebra
or	MATH 1050	College Algebra (4.0)
or	MATH 1055	College Algebra with Preliminaries (5.0)
	EGDT 1610	Technical Math--Geometry/Trig
or	MATH 1060	Trigonometry (3.0)
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		3

	PHIL 2050	Ethics and Values (3.0)	
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		
SOCIAL AND BEHAVIORAL SCIENCE			3
	MGMT 3000	Organizational Behavior (3.0)	
or	Any approved Behavioral Science, Social, or Political Science		
BIOLOGY OR PHYSICAL SCIENCE			
	PHYS 1010	Elementary Physics	3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			1
	Any approved Physical Education, Health, Safety or Environment Course		
Discipline Core Requirements:			39 Credits
	EGDT 1010	Electrical-Electronic Drafting	3
	EGDT 1020	3D Architectural Modeling	3
	EGDT 1040	Computer Aided Drafting--AutoCAD	3
	EGDT 1070	3 Dimensional Modeling--Inventor	3
or	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)	
	EGDT 1100	Architectural Drafting	3
	EGDT 1200	Mechanical Drafting	3
	EGDT 1300	Structural Drafting	3
	EGDT 1400	Surveying Applications and Field Techniques I	3
	EGDT 2020	Descriptive Geometry	3
	EGDT 2040	Piping Drafting	2
	EGDT 2050	Plate Layout	2
	EGDT 2600	Statics	3
	EGDT 2610	Strength of Materials	3
	EGDT 2850	Cooperative Correlated Instruction/Orientation	0.5
	EGDT 2860	Cooperative Correlated Instruction/SkillsUSA	0.5
	EGDT 2870	Portfolio and Career Preparation	1
Elective Requirements:			9 Credits
Choose a minimum of three courses from the following list for a minimum of 9 credits:			9
	EGDT 1050	Introduction to 3D Printing (2.0)	
	EGDT 1060	MicroStation (2.0)	
	EGDT 1080	AutoLisp (2.0)	
	EGDT 1090	Introduction to Architectural Drafting and Design (2.0)	
	EGDT 2010	Advanced Electrical--CAD (2.0)	
	EGDT 2100	Advanced Architectural (3.0)	
	EGDT 2200	Advanced Mechanical (3.0)	
	EGDT 2300	Advanced Structural--CAD (3.0)	
	EGDT 2310	Structural Steel Modeling (3.0)	
	EGDT 2400	Surveying Applications (3.0)	
	EGDT 2500	3 Dimensional Modeling--Civil 3D (3.0)	
	EGDT 2710	Special Problems--Mechanical (2.0)	
	EGDT 2720	Special Problems--Surveying (2.0)	
	EGDT 2730	Special Problems--Civil Drafting (2.0)	
	EGDT 2740	Special Problems--Architectural (2.0)	

	EGDT 2750	Special Problems--Architectural Rendering (2.0)	
	EGDT 2760	Special Problems--Structural (2.0)	
	EGDT 2780	Special Problems--Electrical (2.0)	
	EGDT 281R	Cooperative Work Experience (1.0)	
	EGDT 3500	Advanced Civil Drafting and Design (3.0)	

Graduation Requirements:

1. Completion of a minimum of 67 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements, including a portfolio and exit interview.

Engineering Design Technology, A.A.S. Careers

Careers:
The Engineering Design Technology program prepares students for design, 3D modeling, surveying, and drafting careers in mechanical, architectural, structural, civil, and electrical/electronic fields. Jobs are available with architects, cities, counties, states, the federal government, engineering and surveying companies, mines, research and development companies, and the mechanical, structural steel, architectural development, electronics, construction, and fire protection industries. In addition, because of the broad nature of the program, graduates are prepared to succeed in most technical fields. For example, they can work as manufacturing, industrial engineering, and construction technicians as well as in functional areas of purchasing, estimating, bidding, plant management, quality control, expediting, and sales.

Related Careers

- Architectural and Civil Drafters
- Electrical and Electronics Drafters
- Mechanical Drafters
- Drafters, All Other

Engineering Design Technology, A.S.

Requirements

The Associate in Science Degree is a transferable degree and applies the technical and functional elements of several Drafting and Design fields without taking the advanced course work required in the Associate in Applied Science Degree. Students will take fundamental courses in drafting and design, industry standard two-dimensional and three-dimensional software, Architectural Design, Civil Design and Surveying, Electrical Design, Mechanical Design, and Structural Steel Detailing and Design.

Total Program Credits: 61

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	

Engineering Design Technology

	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			21 Credits
	EGDT 1020	3D Architectural Modeling	3
	EGDT 1040	Computer Aided Drafting--AutoCAD	3
	EGDT 1070	3 Dimensional Modeling--Inventor	3
or	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)	
	EGDT 1100	Architectural Drafting	3
	EGDT 1200	Mechanical Drafting	3
	EGDT 1300	Structural Drafting	3
	EGDT 1400	Surveying Applications and Field Techniques I	3
Elective Requirements:			5 Credits
Choose two courses from the following for a minimum of 5 credits:			5
	EGDT 1010	Electrical-Electronic Drafting (3.0)	
	EGDT 1050	Introduction to 3D Printing (2.0)	
	EGDT 1060	MicroStation (2.0)	
	EGDT 1090	Introduction to Architectural Drafting and Design (2.0)	
	EGDT 2010	Advanced Electrical--CAD (2.0)	
	EGDT 2020	Descriptive Geometry (3.0)	
	EGDT 2040	Piping Drafting (2.0)	
	EGDT 2050	Plate Layout (2.0)	
	EGDT 2100	Advanced Architectural (3.0)	
	EGDT 2200	Advanced Mechanical (3.0)	
	EGDT 2300	Advanced Structural--CAD (3.0)	
	EGDT 2400	Surveying Applications (3.0)	
	EGDT 2500	3 Dimensional Modeling--Civil 3D (3.0)	

	EGDT 2600	Statics (3.0)	
	EGDT 2610	Strength of Materials (3.0)	
	EGDT 2710	Special Problems--Mechanical (2.0)	
	EGDT 2720	Special Problems--Surveying (2.0)	
	EGDT 2730	Special Problems--Civil Drafting (2.0)	
	EGDT 2740	Special Problems--Architectural (2.0)	
	EGDT 2750	Special Problems--Architectural Rendering (2.0)	
	EGDT 2760	Special Problems--Structural (2.0)	
	EGDT 2780	Special Problems--Electrical (2.0)	
	EGDT 281R	Cooperative Work Experience (1.0)	
	EGDT 3500	Advanced Civil Drafting and Design (3.0)	

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Engineering Design Technology, A.S.

Careers

Careers:

The Engineering Design Technology program prepares students for design, 3D modeling, surveying, and drafting careers in mechanical, architectural, structural, civil, and electrical/electronic fields. Jobs are available with architects, cities, counties, states, the federal government, engineering and surveying companies, mines, research and development companies, and the mechanical, structural steel, architectural development, electronics, construction, and fire protection industries. In addition, because of the broad nature of the program, graduates are prepared to succeed in most technical fields. For example, they can work as manufacturing, industrial engineering, and construction technicians as well as in functional areas of purchasing, estimating, bidding, plant management, quality control, expediting, and sales.

Related Careers

- Architectural and Civil Drafters
- Electrical and Electronics Drafters
- Mechanical Drafters
- Drafters, All Other

Geomatics, A.S.

Requirements

Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), and some parts of geography and civil engineering.

Geomatics is a discipline which integrates acquisition, modeling, analysis, and management of geo-spatial reference data. Based on the scientific framework of geodesy, it uses terrestrial, marine, airborne, satellite-based sensors, and measurement systems and technologies to acquire spatial and other data. The Land Surveying component of Geomatics includes investigation, analysis, and application of boundary/property laws and legal principles pertaining to specific public and private properties and is a regulated profession wherein a license to practice land surveying is issued by each state in an effort to protect the public and private interests in property boundaries.

Students in the Geomatics program may earn an Associate in Science in Geomatics which will help them be immediately employable as entry level surveyor GIS technician. Students may also earn a Bachelor of Science in Geomatics which will prepare them

to successfully pass the national Fundamentals of Surveying (FS) exam which is a significant step towards surveying licensure. The bachelor degree program has been developed around four core disciplines which build on an in-depth foundation of knowledge needed for the professional practice of surveying and GIS. Geomatics program goals are to secure ABET/ASAC accreditation by Fall Semester 2017 and to continue to encourage student interest in obtaining graduate degrees in the field of Geomatics from other nationally ranked institutions. The program is operating under an annual cohort system starting in the fall semester of each year, so matriculation is required to ensure that each perspective student completes all required course prerequisites prior to entrance into a cohort.

Total Program Credits: 61

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:		3
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities		3
Fine Arts		3
Social/Behavioral		3
Discipline Core Requirements:		20 Credits
My Educator Exam *		
SURV 1020	Introduction to Geomatics	1
MATH 1060	Trigonometry	3
or EGD 1600	Technical Math--Algebra (3.0)	
and EGD 1610	Technical Math--Geometry/Trig (3.0)	
EGD 1040	Computer Aided Drafting--AutoCAD	3
EGD 1400	Surveying Applications and Field Techniques I	3
EGD 2400	Surveying Applications and Field Techniques II	3
GIS 3600	Introduction to Geographic Information Systems	4

ENGL 2310	Technical Communication	3
Elective Requirements:		6 Credits
Choose 6 credits from the following or any other courses approved by department		6
SURV 2030	Geodesy (3.0)	
SURV 2210	Photogrammetry (3.0)	
SURV 2220	Remote Sensing (3.0)	
SURV 2310	Surveying US Public Lands (3.0)	
SURV 2320	Property Descriptions and Public Land Records (3.0)	
SURV 3030	Land Development Planning, Platting, and Mapping (3.0)	
SURV 3010	Measurement Analysis and Adjustments (4.0)	
SURV 3220	Control Surveys (3.0)	
SURV 3230	Construction and Route Surveys (3.0)	
GIS 3620	Advanced GIS for Geomatics (3.0)	
STAT 2040	Principles of Statistics (4.0)	
EGD 2500	3 Dimensional Modeling--Civil 3D (3.0)	
EGD 3500	Advanced Civil Drafting and Design (3.0)	

Graduation Requirements:

1. Completion of a minimum of 61 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote
* Students will be required to complete the My Educator exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

**Geomatics, A.S.
Careers**

Careers:
The Geomatics program prepares students to enter the workplace in a variety of disciplines. Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser/LIDAR scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), geography and some elements of civil engineering. Geomatics not only encompasses traditional land surveying but today also includes geography and other disciplines which integrate acquisition, modeling, analysis, and management of geo-spatial reference data. Some students will have opportunities to work for organizations such as the National Geodetic Survey (NGS), National Oceanic and Atmospheric Administration (NOAA), Bureau of Land Management (BLM), National Aeronautics and Space Administration (NASA), national, state, county, and city governmental agencies, universities and colleges, and private surveying and engineering firms.

Related Careers

- Cartographers and Photogrammetrists
- Surveyors
- Surveying and Mapping Technicians

Architectural Design Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Architectural Design Technology applies the technical and functional elements of residential and commercial architectural design. Students will take courses in the fundamentals of drafting and design, two-dimensional and three-dimensional software/Building Information Modeling (BIM) packages, architectural rendering, residential design and construction, and commercial design and construction.

Total Program Credits: 17

Discipline Core Requirements:			17 Credits
EGDT 1000	Introduction to Engineering Drawing and Technical Design (2.0)		2
EGDT 1020	3D Architectural Modeling (3.0)		3
EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)		3
EGDT 1100	Architectural Drafting (3.0)		3
EGDT 1720	Architectural Rendering (3.0)		3
EGDT 2100	Advanced Architectural (3.0)		3

Graduation Requirements:

1. Completion of a minimum of 17 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours-- minimum of 5 credit hours through course attendance at UVU.

Architectural Design Technology, Certificate of Proficiency

Careers

Careers:
A student with a Certificate of Proficiency in Architectural Design Technology will be prepared for an entry level job as an architectural drafter/designer.

Related Careers

- Architectural and Civil Drafters

Civil Design Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Civil Design Technology applies the technical and functional elements of civil design. Students will take courses in the fundamentals of drafting and design, basic surveying, civil drafting and design, two-dimensional and three-dimensional software packages, surveying applications, land development, and advanced civil design.

Total Program Credits: 16

Discipline Core Requirements:			16 Credits
EGDT 1000	Introduction to Engineering Drawing and Technical Design		2
EGDT 1040	Computer Aided Drafting--AutoCAD		3
EGDT 1400	Surveying Applications and Field Techniques I		3
EGDT 2400	Surveying Applications and Field Techniques II		3
EGDT 2500	3 Dimensional Modeling--Civil 3D		3
EGDT 2730	Special Problems--Civil Drafting		2

Graduation Requirements:

1. Completion of a minimum of 16 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours-- minimum of 4 credit hours through course attendance at UVU.

Civil Design Technology, Certificate of Proficiency

Careers:
A student with a Certificate of Proficiency in Civil Design Technology will be prepared for an entry level job as a civil drafter/designer or survey technician.

Related Careers

- Architectural and Civil Drafters

Mechanical Design Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Mechanical Design Technology applies the technical and functional elements of mechanical design. Students will take courses in the fundamentals of drafting and design, basic mechanical drafting and design, two-dimensional and three-dimensional software packages, electrical design, and advanced mechanical design.

Total Program Credits: 17

Discipline Core Requirements:			17 Credits
EGDT 1000	Introduction to Engineering Drawing and Technical Design (2.0)		2
EGDT 1010	Electrical-Electronic Drafting (3.0)		3
EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)		3
EGDT 1070	3 Dimensional Modeling--Inventor (3.0)		3
or	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)	
	EGDT 1200	Mechanical Drafting (3.0)	3
	EGDT 2200	Advanced Mechanical (3.0)	3

Graduation Requirements:

1. Completion of a minimum of 17 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours-- minimum of 5 credit hours through course attendance at UVU.

Mechanical Design Technology, Certificate of Proficiency

Careers

Careers:
A student with a Certificate of Proficiency in Mechanical Design Technology will be prepared for an entry level job as a mechanical drafter/designer.

Related Careers

- Mechanical Drafters

Structural Design Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Structural Design Technology applies the technical and functional elements of structural steel detailing. Students will take courses in the fundamentals of drafting and design, basic structural steel detailing, two-dimensional and three-dimensional software/Building Information Modeling (BIM) packages, and advanced structural design and detailing.

Total Program Credits: 17

Discipline Core Requirements:			17 Credits
EGDT 1000	Introduction to Engineering Drawing and Technical Design (2.0)		2
EGDT 1020	3D Architectural Modeling (3.0)		3
EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)		3
EGDT 1300	Structural Drafting (3.0)		3
EGDT 2300	Advanced Structural--CAD (3.0)		3
EGDT 2310	Structural Steel Modeling (3.0)		3

Graduation Requirements:

1. Completion of a minimum of 17 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours-- minimum of 5 credit hours through course attendance at UVU.

Structural Design Technology, Certificate of Proficiency

Careers

Careers:
A student with a Certificate of Proficiency in Structural Design Technology will be prepared for an entry level job as a structural steel detailer.

Related Careers

- Drafters, All Other

Geomatics, B.S.

Requirements

Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), and some parts of geography and civil engineering.

Geomatics is a discipline which integrates acquisition, modeling, analysis, and management of geo-spatial reference data. Based on the scientific framework of geodesy, it uses terrestrial, marine, airborne, satellite-based sensors, and measurement systems and technologies to acquire spatial and other data. The Land Surveying component of Geomatics includes investigation, analysis, and application of boundary/property laws and legal principles pertaining to specific public and private properties and is a regulated profession wherein a license to practice land surveying is issued by each state in an effort to protect the public and private interests in property boundaries.

Students in the Geomatics program may earn an Associate in Science in Geomatics which will help them be immediately employable as an entry level surveyor GIS technician. Students may also earn a Bachelor of Science in Geomatics which will prepare them to successfully pass the national Fundamentals of Surveying (FS) exam which is a significant step towards surveying licensure. The bachelor degree program has been developed around four core disciplines which build on an in-depth foundation of knowledge needed for the professional practice of surveying and GIS. Geomatics program goals are to secure ABET/ASAC accreditation by Fall Semester 2017 and

to continue to encourage student interest in obtaining graduate degrees in the field of Geomatics from other nationally ranked institutions. The program is operating under an annual cohort system starting in the fall semester of each year, so matriculation is required to ensure that each perspective student completes all required course prerequisites prior to entrance into a cohort.

Total Program Credits: 121

Matriculation Requirements:			
1. Before being formally admitted into the BS Geomatics, students must matriculate into the Geomatics Cohort (the final 2 years of the program) by either completing an AS in Geomatics with a minimum grade of C or better, (except for MATH 1060 and/or its equivalents which must be a B or better) OR by completing matriculation requirements 2 and 3:			
2. Complete the My Educator exam with 80% or higher OR complete IM 2010 (3.0 credit hours) with B- or higher			
3. Complete the following courses with a C grade or better:			
<ul style="list-style-type: none"> • SURV 1020 Introduction to Geomatics (1.0) • EGDT 1040 Computer Aided Drafting--AutoCAD (3.0) • EGDT 1400 Surveying Applications and Field Techniques I (3.0) • EGDT 2400 Surveying Applications and Field Techniques II (3.0) • GIS 3600 Introduction to Geographic Information Systems (4.0) • MATH 1060 Trigonometry (3.0) • or EGDT 1600 Technical Math--Algebra (3.0) • and EGDT 1610 Technical Math--Geometry/Trig (3.0) 			
4. All Geomatics students must complete a Matriculation Application by the appointed deadline during the Spring semester prior to the Fall cohort to which the student desires to gain entry. Subsequently official approval must be obtained from the Program Coordinator prior to taking any further Geomatics courses.			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:			3
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	HIST 2700	US History to 1877 (3.0)	

Engineering Design Technology

and	HIST 2710	US History since 1877 (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biological		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	Fine Arts		3
	Social/Behavioral Science		3
Discipline Core Requirements:			77 Credits
GEOMATICS DISCIPLINE CORE			
	My Educator		
	SURV 1020	Introduction to Geomatics	1
	EGDT 1040	Computer Aided Drafting--AutoCAD	3
	EGDT 1400	Surveying Applications and Field Techniques I	3
	SURV 2010	Land and Survey History	3
	ENGL 2310	Technical Communication	3
	SURV 2030	Geodesy	3
	SURV 3400	Surveying Applications and Field Techniques III (3.0)	3
	GIS 3600	Introduction to Geographic Information Systems	4
	GIS 3620	Advanced GIS for Geomatics	3
	MATH 1060	Trigonometry	3
or	EGDT 1600	Technical Math--Algebra (3.0)	
and	EGDT 1610	Technical Math--Geometry/Trig (3.0)	
MEASUREMENT CORE			
	EGDT 2400	Surveying Applications and Field Techniques II	3
	SURV 2220	Remote Sensing	3
	SURV 2210	Photogrammetry	3

	SURV 3010	Measurement Analysis and Adjustments	4
	SURV 3220	Control Surveys	3
	SURV 3230	Construction and Route Surveys	3
LEGAL PRINCIPLES CORE			
	SURV 2310	Surveying US Public Lands	3
	SURV 2320	Property Descriptions and Public Land Records	3
	SURV 3340	Boundary Law	3
	SURV 4340	Surveying Legal Principles	3
SURVEYING SERVICES CORE			
	LEGL 3000	Business Law	3
	SURV 4500	The Surveying Practice	3
	SURV 451R	Geomatics Lecture Series (.5) (Must be repeated for a total of 1 credit hour)	1
	SURV 455G	Global Professional Ethics and Liabilities	3
	SURV 4930	Senior Geomatics Capstone	4
Elective Requirements:			9 Credits
Complete 9 credits from the following list OR any other courses regardless of prefix with prior department approval.			6
	SURV 4400	Surveying Applications and Field Techniques IV (3.0)	
	SURV 481R	Geomatics Internship (1.0) (Up to 8 credits may be taken toward graduation)	
	SURV 490R	Professional Topics in Geomatics (3.0)	
	EGDT 1060	MicroStation (2.0)	
	EGDT 2500	3 Dimensional Modeling--Civil 3D (3.0)	
	EGDT 3500	Advanced Civil Drafting and Design (3.0)	
	PHYS 2010	College Physics I (4.0)	
	PHYS 2020	College Physics II (4.0)	
	BOT 2050	Field Botany (3.0)	
	BOT 2100	Flora of Utah (3.0)	

	LEGL 3140	Real Estate Law (3.0)	
	LEGL 3150	Survey of Dispute Resolution (3.0)	
	LEGL 3410	Mediation and Negotiation (3.0)	
	LEGL 4160	Contract Law (3.0)	
	MATH 1210	Calculus I (5.0)	

Graduation Requirements:

1. Completion of a minimum of 121 semester credits required for a BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.5 or above with a minimum of 3.0 GPA in all Geomatics courses. No grade lower than a "B" in core discipline courses including: Geomatics Discipline, Measurement, Legal Principles, and Surveying Services core courses.
3. Residency hours: Minimum of 30 credit hours of Geomatics courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Geomatics, B.S.**Careers**

Careers:
The Geomatics program prepares students to enter the workplace in a variety of disciplines. Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser/LIDAR scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), geography and some elements of civil engineering. Geomatics not only encompasses traditional land surveying but today also includes geography and other disciplines which integrate acquisition, modeling, analysis, and management of geo-spatial reference data. Some students will have opportunities to work for organizations such as the National Geodetic Survey (NGS), National Oceanic and Atmospheric Administration (NOAA), Bureau of Land Management (BLM), National Aeronautics and Space Administration (NASA), national, state, county, and city governmental agencies, universities and colleges, and private surveying and engineering firms.

Related Careers

- Cartographers and Photogrammetrists
- Surveyors
- Surveying and Mapping Technicians

Engineering Technology

Name:	Engineering Technology
Location:	CS 632
Telephone:	801-863-5571
Email:	engtech@uvu.edu
Web Address:	uvu.edu/et
Chair:	David Adams

Mission Statement

The Mission of the Engineering Technology Department is to prepare graduates to work in high demand, very technical, vastly diverse, automated industries that provide products and services to keep our state and national economy running. The Pre-Engineering graduates are prepared to go into upper level engineering fields. The Mechatronics graduates are focused on designing the newest machines and automated systems needed by industry. The Electrical Automation and Robotics Technology graduates keep industry running by fixing, adapting, programming, and maintaining the automated machines and systems used in industry. The hands on/class room/lab learning approach used in the Engineering Technology Department is the best skill learning approach in higher education.

Electrical Automation & Robotics Technology

- **Program Coordinator:** Dave Adams
- **Telephone:** 801-863-6052
- **Email:** adamsda@uvu.edu

- **Administrative Contact:** Christine Peterson
- **Telephone:** 801-836-5571
- **Email:** christinep@uvu.edu
- **Mailstop:** 151

- **Advisor:** Chelsey Chalk
- **Telephone:** 801-863-8648
- **Email:** CChalk@uvu.edu

Advisory Committee:

Jeff Duncan, Anadarko Petroleum Corp; Nasir Khan, BD Medical; Steve Heaps, Codale Electric Supply, Inc; Shawn Beck, Dannon; Samuel Duncan, IM Flash Technologies; Kent Angell, Nestle;; Ryan Park, Precision Automated Technology; Don Root, Precision Systems Engineering; Scott Seals, RioTinto; Bob Bruce, Syscon Automation Group, Inc; Shane Williams, US Synthetic.

Programs

Four options are available: Associate in Applied Science Degree (AAS), Associate in Science Degree (AS) in Electrical Automation and Robotics Technology, Bachelor of Science (BS) in Mechatronics Engineering Technology, or Bachelor of Science (BS) in Technology Management.

Mechatronics Engineering Technology

- **Program Coordinator:**
- David Dunlop
- **Telephone:** 801-863-8111
- **Email:** DDunlop@uvu.edu
-

- **Administrative Contact:**
- Christine Peterson
- **Telephone:** 801-863-5571
- **Email:** christinep@uvu.edu

- **Mailstop:** 151

- **Advisor:**
- Chelsey Chalk (Last name begins A-L)
- **Telephone:** 801-863-8648
- **Email:** CChalk@uvu.edu

- **Advisor:**
- Amy Ostler (Last name begins M-Z)
- **Telephone:** 801-863-8648
- **Email:** ostleram@uvu.edu

Advisory Committee:

Michael Quayle, Autoliv; Todd Russell, IM Flash; Don Root, Precision Systems Engineering

Programs

Two options are available: Associate in Applied Science Degree (AAS), and Bachelor of Science (BS) in Mechatronics Engineering Technology

Laptop Requirement

Laptop will be required for all MECH courses. Please see Mechatronics advisor for details.

Pre-Engineering

- **Program Coordinator:**
- Masood Amin
- Telephone: 801-863-8805
- **Email:** aminma@uvu.edu
-

- **Administrative Contact:**
- Christine Peterson
- **Telephone:** 801-863-5571
- **Email:** christinep@uvu.edu
- **Mailstop:** 151

- **Advisor:**
- Monica Ferreyra (for students with last name beginning A - M)
- **Telephone:** 801-863-8648
- **Email:** monicaf@uvu.edu

- **Advisor:**
- Chelsey Chalk (Last name beginning N - Z)
- Telephone: 801-863-8648
- **Email:** CChalk@uvu.edu
-

Programs

Students can choose from two degree plans. The Associate in Pre-Engineering (APE) degree and Associate of Science (AS) in Pre-Engineering degree. The APE degrees comprised of math, science, and engineering courses- normally taken by first and second year students in a four-year program, along with a small number of general education courses. In this program students can choose one of three emphases in engineering, Biological and Chemical, Civil and Mechanical, Computer and Electrical. For the AS degree students can take appropriate general education courses and carefully choose elective courses related to the engineering discipline they are going to pursue. This option normally takes longer, unless the student has advanced placement or concurrent enrollment from high school; however, it has the added benefit of possible waiving of general education requirements at the student's follow-on school.

Mechanical Engineering

- **Program Coordinator:**
- Sean Tolman
- Telephone: 801-863-5417

- **Email:** stolman@uvu.edu

- **Administrative Contact:**

- Christine Peterson
- **Telephone:** 801-863-5571
- **Email:** christinep@uvu.edu
- **Mailstop:** 151

- **Advisor:**

- Monica Ferreyra (for students with last name beginning A - M)
- **Telephone:** 801-863-8648
- **Email:** monicaf@uvu.edu

- **Advisor:**

- Chelsey Chalk (Last name beginning N - Z)
- Telephone: 801-863-8648
- **Email:** CChalk@uvu.edu

Programs

The Bachelor of Science (BS) in Mechanical Engineering Program is an engaging and challenging major that prepares students for exciting careers and graduate programs in Mechanical Engineering. Students begin their study by completing a series of foundation courses in math, science, writing and engineering. After successful completion of these foundation courses, students will apply and be accepted into the Mechanical Engineering Program before enrolling in upper division (3000 level or higher) major courses.

DEPARTMENT CHAIR

ADAMS, David M. *Associate Professor*

FACULTY

ADAMS, David M. *Associate Professor*

AL-NSOUR, Rawan *Assistant Professor*

AMIN, Masood *Associate Professor*

BIRD, M. Tyler *Assistant Professor*

FRAUGHTON, Travis *Lecturer*

HAKALA, Tim *Assistant Professor*

LUNDAHL, Diana *Assistant Professor*

SEARLE, Scott *Lecturer*

TOLMAN, Sean *Associate Professor*

WALKER, William Scott *Assistant Professor*

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Degrees & Programs

Associate in Pre-Engineering - Biological and Chemical Engineering Emphasis, A.P.E.

Requirements

The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student's choice.

Total Program Credits: 69

General Education Requirements:		28 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
Complete the following Natural and Physical Science courses:		
Biology		3
CHEM 1210	Principles of Chemistry I	4
CHEM 1215	Principles of Chemistry I Laboratory	1
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science:		6
Humanities (from list)		
Fine Arts (from list)		
Social/Behavioral Sciences (from list)		
Complete any American Institutions course:		3
POLS 1000	American Heritage (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1100	American National Government (3.0)	
Discipline Core Requirements:		18 Credits
MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
ENGR 1030	Engineering Programming	3
or CS 1400	Fundamentals of Programming (3.0)	
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
Emphasis Requirements:		5 Credits
CHEM 1220	Principles of Chemistry II	4
CHEM 1225	Principles of Chemistry II Laboratory	1
Emphasis Elective Requirements:		18 Credits
Students should carefully select electives from the following list, based on the engineering discipline (Biological or Chemical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.		18
BIOL 1610	College Biology I (4.0)	
BIOL 1615	College Biology I Laboratory (1.0)	
BIOL 1620	College Biology II (3.0)	
BIOL 1625	College Biology II Laboratory (1.0)	
BIOL 3400	Cell Biology (3.0)	
CHEM 2310	Organic Chemistry I (4.0)	
CHEM 2315	Organic Chemistry I Laboratory (1.0)	
CHEM 2320	Organic Chemistry II (4.0)	
CHEM 2325	Organic Chemistry II Laboratory (1.0)	
ECE 1020	Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0)	

Engineering Technology

	CS 1400	Fundamentals of Programming (3.0)	
	ENGR 1000	Introduction to Engineering (3.0)	
	ENGR 1020	Survey of Engineering (1.0)	
	ENGR 2160	Introduction to Materials Science and Engineering (3.0)	
	ENGR 2300	Engineering Thermodynamics (3.0)	
	ENGR 2450	Computational Methods for Engineering Analysis (3.0)	
	MATH 2210	Calculus III (3.0)	
	MATH 2250	Differential Equations and Linear Algebra (4.0)	
or	MATH 2270	Linear Algebra (3.0)	
and	MATH 2280	Ordinary Differential Equations (3.0)	

Graduation Requirements:

1. Completion of a minimum of 69 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Associate in Pre-Engineering - Biological and Chemical Engineering Emphasis, A.P.E. Careers

Careers:
Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

- NO MATCH

Associate in Pre-Engineering - Civil and Mechanical Engineering Emphasis, A.P.E.

Requirements

The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student's choice.

Total Program Credits: 69

General Education Requirements:		28 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
Complete the following Natural and Physical Science courses:			
	Biology		3
	CHEM 1210	Principles of Chemistry I	4
	CHEM 1215	Principles of Chemistry I Laboratory	1
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2215	Physics for Scientists and Engineers I Lab	1

Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science:		6	
	Humanities (from list)		
	Fine Arts (from list)		
	Social/Behavioral Sciences (from list)		
Complete any American Institutions course:		3	
	POLS 1000	American Heritage (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1100	American National Government (3.0)	
Discipline Core Requirements:		18 Credits	
	MATH 1210	Calculus I	5
	MATH 1220	Calculus II	5
	ENGR 1030	Engineering Programming (3.0)	3
or	CS 1400	Fundamentals of Programming (3.0)	
	PHYS 2220	Physics for Scientists and Engineers II	4
	PHYS 2225	Physics for Scientists and Engineers II Lab	1
Emphasis Requirements:		9 Credits	
	ENGR 2010	Engineering Statics	3
	ENGR 2030	Engineering Dynamics	3
	ENGR 2140	Mechanics of Materials	
or	ENGR 2160	Introduction to Materials Science and Engineering (3.0)	
or	ENGR 2450	Computational Methods for Engineering Analysis (3.0)	
Emphasis Elective Requirements:		14 Credits	
Students should carefully select electives from the following list, based on the engineering discipline (Civil or Mechanical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.		14	
	ECE 2210	Fundamentals of Electric Circuit Analysis (3.0)	
	ECE 2215	Fundamentals of Electric Circuit Analysis Lab (1.0)	
	ECE 1020	Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0)	
	ECE 2250	Circuit Theory (3.0)	
	ECE 2255	Circuit Theory Lab (1.0)	
	EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)	
	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)	
	EGDT 1400	Surveying (3.0)	
	ENGR 1000	Introduction to Engineering (3.0)	
	ENGR 1020	Survey of Engineering (1.0)	
	ENGR 2300	Engineering Thermodynamics (3.0)	
	ENGR 2450	Computational Methods for Engineering Analysis (3.0)	
	MATH 2210	Calculus III (3.0)	
	MATH 2250	Differential Equations and Linear Algebra (4.0)	
or	MATH 2270	Linear Algebra (3.0)	

and	MATH 2280	Ordinary Differential Equations (3.0)	
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Graduation Requirements:

1. Completion of a minimum of 69 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Associate in Pre-Engineering - Civil and Mechanical Engineering Emphasis, A.P.E.

Careers

Careers:
Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

- NO MATCH

Associate in Pre-Engineering - Computer and Electrical Engineering Emphasis, A.P.E.

Requirements

The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student's choice.

Total Program Credits: 69

General Education Requirements:		28 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
Complete the following Natural and Physical Science courses:		
Biology		3
CHEM 1210	Principles of Chemistry I	4
CHEM 1215	Principles of Chemistry I Laboratory	1
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
Complete any combination of the following with no more than 1 course each from Humanities, Fine Arts, and Social/Behavioral Science:		6
Humanities (from list)		
Fine Arts (from list)		
Social/Behavioral Sciences (from list)		
Complete any American Institutions course:		3
POLS 1000	American Heritage (3.0)	
HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	

POLS 1100	American National Government (3.0)	
Discipline Core Requirements:		18 Credits
MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
ENGR 1030	Engineering Programming	3
or	CS 1400	Fundamentals of Programming (3.0)
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
Emphasis Requirements:		8 Credits
ECE 2250	Circuit Theory	3
ECE 2255	Circuit Theory Lab	1
ECE 2700	Digital Design I	3
ECE 2705	Digital Design I Lab	1
Emphasis Elective Requirements:		15 Credits
Students should carefully select electives from the following list (or other advisor approved courses), based on the engineering discipline (Computer or Electrical) they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.		15
CS 1410	Object-Oriented Programming (3.0)	
CS 2300	Discrete Mathematical Structures I (3.0)	
CS 2420	Introduction to Algorithms and Data Structures (3.0)	
CS 2600	Computer Networks I (3.0)	
CS 2810	Computer Organization and Architecture (3.0)	
ECE 1020	Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0)	
ECE 3740	Digital Design II (3.0)	
ENGR 1000	Introduction to Engineering (3.0)	
ENGR 2450	Computational Methods for Engineering Analysis (3.0)	
ENGR 1020	Survey of Engineering (1.0)	
MATH 2210	Calculus III (3.0)	
MATH 2250	Differential Equations and Linear Algebra (4.0)	
or	MATH 2270	Linear Algebra (3.0)
and	MATH 2280	Ordinary Differential Equations (3.0)
ECE 3760	Electronic Systems (3.0)	
ECE 3765	Electronic Systems Lab (1.0)	
ECE 3730	Embedded Systems I (3.0)	

Graduation Requirements:

1. Completion of a minimum of 69 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Associate in Pre-Engineering - Computer and Electrical Engineering Emphasis, A.P.E.

Careers

Careers:

Engineering Technology

Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

- NO MATCH

Electrical Automation and Robotics Technology, A.A.S.

Requirements

The EART program prepares Electrical Automation Technicians to troubleshoot, wire, repair, adapt, maintain, program (PLC's & PAC's), and control large automated electrical systems found in Industrial and Manufacturing Industries worldwide. The EART Technician will work with DC & AC motor controlled machines; Programmable Logic Controlled (PLC's) and Programmable Automation Controlled (PAC's) machines, systems, and devices; Hydraulic and pneumatic controlled machines; conveyor, fluid, and bulk storage systems; flex, soft start, and variable frequency drives; Robots; servo, and stepper motors. Because of their highly skilled hands on training the EART student is in high demand from many industries.

Total Program Credits: 66

General Education Requirements:		18 Credits
ENGL 1010	Introduction to Writing	3
Any approved Humanities or Fine Art		3
Any approved Behavioral Science, Social, or Political Science Distribution Course		3
Any approved Physical Education, Health, Safety, or Environment Course		1
Any approved Biology or Physical Science		3
EART 1050	Applied Electrical Math For EART Technicians	5
Discipline Core Requirements:		48 Credits
EART 1130	Basic Electrical Theory for EART Technicians	4
EART 1180	Basic Electrical Lab for EART Technicians	5
EART 1280	DC and AC Machines for EART Technicians	5
EART 1285	DC and AC Machines Lab for EART Technicians	4
EART 2110	Industrial Electronics for EART Technicians I	6
EART 2150	Industrial Hydraulics and Pneumatics	3
EART 2160	Industrial Electronics for EART Technicians II	5
EART 2250	Industrial Programmable Logic Controllers-- PLC's	5
EART 2270	Programmable Logic Controllers 2	6
EGDT 1000	Introduction to Engineering Drawing and Technical Design	2
TECH 3000	Introduction to Technology Management	3

Graduation Requirements:

1. Completion of a minimum of 66 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements

Electrical Automation and Robotics Technology, A.A.S. Careers

Careers:	
The EART graduate can find employment locally, Statewide, Nationally, and Worldwide in the following highly automated industrial and manufacturing industries:	
Mines (coal, copper, potash, gold, and many others)	
Gas and Oil	
Pharmaceutical	
Medical Products	
Food and Beverage packaging and distribution	
Automotive	
Farming equipment	
Product Distribution companies	
Power Plants	
Commercial and Industrial Maintenance	
Automated Machine Manufactures	
Waste Management Industries	
Consulting Companies that provide "PLC & PAC Programming Services" and "Maintenance Services" to Industrial and Manufacturing Companies that need expert services.	

Related Careers

- Electro-Mechanical Technicians

Electrical Automation and Robotics Technology, A.S.

Requirements

The EART program prepares Electrical Automation Technicians to troubleshoot, wire, repair, adapt, maintain, program (PLC's & PAC's), and control large automated electrical systems found in Industrial and Manufacturing Industries worldwide. The EART Technician will work with DC & AC motor controlled machines; Programmable Logic Controlled (PLC's) and Programmable Automation Controlled (PAC's) machines, systems, and devices; Hydraulic and pneumatic controlled machines; conveyor, fluid, and bulk storage systems; flex, soft start, and variable frequency drives; Robots; servo, and stepper motors. Because of their highly skilled hands on training the EART student is in high demand from many industries.

Total Program Credits: 63

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MATH 1040	Introduction to Statistics (3.0)	
MATH 1050	College Algebra (4.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	

and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			16 Credits
	Choose from EART or related courses (1000 level or higher)		16
Elective Requirements:			12 Credits
	Electives (1000 level or higher)		12

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above (Department may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Electrical Automation and Robotics Technology, A.S. Careers

Careers:	
The EART graduate can find employment locally, Statewide, Nationally, and Worldwide in the following highly automated industrial and manufacturing industries:	
Mines (coal, copper, potash, gold, and many others)	
Gas and Oil	
Pharmaceutical	
Medical Products	
Food and Beverage packaging and distribution	
Automotive	
Farming equipment	
Product Distribution companies	
Power Plants	
Commercial and Industrial Maintenance	
Automated Machine Manufactures	
Waste Management Industries	
Consulting Companies that provide "PLC & PAC Programming Services" and "Maintenance Services" to Industrial and Manufacturing Companies that need expert services.	

Related Careers

- Electro-Mechanical Technicians

Mechatronics Engineering Technology, A.A.S.

Requirements

The Mechatronics Engineering Technology Degree from Utah Valley University prepares graduates to work in the Utah manufacturing sector as an automation technologist, design technician, PLC programmer, as well as many other aspects of implementing manufacturing systems. Students complete courses in PLC programming and architecture, materials, CAD, electrical and mechanical components, pneumatics, and motor control. Students will also take courses in technical writing, physics, chemistry, and business to round out their professional profile.

Total Program Credits: 63

General Education Requirements:			23 Credits
	ENGL 1010	Introduction to Writing (3.0)	3
	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	3
or	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
	ENGL 2310	Technical Communication	3
	ECON 1010	Economics as a Social Science	3
or	MGMT 1010	Introduction to Business	
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Discipline Core Requirements:			40 Credits
	EGDT 1071	3 Dimensional Modeling--Solidworks	3
	MECH 1010	Introduction to Mechatronics	3
	MECH 1200	Electronics in Automation Design	3
	MECH 1205	Electronics in Automation Design Laboratory	2
	MECH 1250	Logic Fundamentals for Mechatronic Design	2
	MECH 1255	Logic Fundamentals for Mechatronic Design Laboratory	1
	MECH 2200	Semiconductors Used in Mechatronic Systems	3
	MECH 2205	Semiconductors in Mechatronic Systems Lab	1
	MECH 2300	Microcontroller Architecture and Programming	3
	MECH 2305	Microcontroller Architecture and Programming Lab	1
	MECH 2400	Mechanical Components	4
	MECH 2500	Introduction to PLCs in Mechatronic Design	4
	MECH 2510	Automation Systems Sensors	3
	MECH 2550	Advanced PLC Programming and Applications	4
	MECH 2600	Introduction to Pneumatics	3

Graduation Requirements:

1. Completion of 63 or more credit hours.
2. Overall grade point average of 2.0 (C) or above, with no core course below a C-.

Engineering Technology

- Residency hours: minimum of 20 credit hours through course attendance at UVU.
- Completion of GE and specified departmental requirements.

Mechatronics Engineering Technology, A.A.S. Careers

Careers:	
Graduates from the Mechatronics Program will find gainful and rewarding employment in the Utah manufacturing sector. Manufacturing is an expanding sector of the Utah economy and graduates from the Mechatronics Program find employment in the automotive, medical, food, and sporting goods industries as Automation Technologists. With the blend of electronics and mechanics the graduates integrate into careers maintaining, upgrading, and designing new technically demanding automation systems that are the foundation of manufacturing production. Starting and long term salary potential is excellent for Mechatronics Technologists and the opportunity to work in a high demand occupation with a great salary potential makes the Mechatronics an excellent long term career choice. Graduates also have the option to continue their education in the Technology Management Program that will provide the opportunity to transition their careers into a supervision or management path after several years of technical employment.	

Related Careers

- Architectural and Engineering Managers
- Engineers, All Other
- Engineering Teachers, Postsecondary

Pre-Engineering, A.S.

Requirements

The pre-engineering program at UVU has been created for students who plan to complete the first two to three years of their engineering education at UVU and then transfer to a baccalaureate university to complete their engineering degree. With adequate planning, pre-engineering coursework completed at UVU will transfer to all of the Utah universities with baccalaureate engineering degrees. All students who declare pre-engineering as their major are automatically accepted into pre-engineering status. After completion of the pre-engineering program at UVU, the student applies for professional status at an institution of the student's choice.

Total Program Credits: 63

General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
CHEM 1210	Principles of Chemistry I	4
PHYS 2210	Physics for Scientists and Engineers I	4

Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Biology		3
Discipline Core Requirements:		24 Credits
ENGR 1030	Engineering Programming	3
or CS 1400	Fundamentals of Programming (3.0)	
MATH 1220	Calculus II	5
Complete ONE of the following sets of courses:		16
General Engineering Focus:		
PHYS 2215	Physics for Scientists and Engineers I Lab (1.0)	
CHEM 1215	Principles of Chemistry I Laboratory (1.0)	
ENGR 1000	Introduction to Engineering (3.0)	
ENGR 2160	Introduction to Materials Science and Engineering (3.0)	
CS 2810	Computer Organization and Architecture (3.0)	
or CS 1410	Object-Oriented Programming (3.0)	
Complete five credits of Pre-Engineering electives		
Mechanical/Civil Engineering Focus:		
PHYS 2220	Physics for Scientists and Engineers II (4.0)	
ENGR 2010	Engineering Statics (3.0)	
ENGR 2030	Engineering Dynamics (3.0)	
ENGR 2140	Mechanics of Materials (3.0)	
or ENGR 2300	Engineering Thermodynamics (3.0)	
or ENGR 2450	Computational Methods for Engineering Analysis (3.0)	
Complete three credits of Pre-Engineering electives		
Electrical/Computer Engineering Focus:		
PHYS 2220	Physics for Scientists and Engineers II (4.0)	
ECE 2250	Circuit Theory (3.0)	
ECE 2255	Circuit Theory Lab (1.0)	
ECE 2700	Digital Design I (3.0)	
ECE 2705	Digital Design I Lab (1.0)	
Complete four credits of Pre-Engineering electives		
Chemical/Biological Engineering Focus:		
PHYS 2220	Physics for Scientists and Engineers II (4.0)	
CHEM 1220	Principles of Chemistry II (4.0)	
CHEM 2310	Organic Chemistry I (4.0)	
Complete five credits of Pre-Engineering electives		
Elective Requirements:		
Students should carefully select electives based on the engineering discipline they are interested in and the college or university they want to attend to finish their BS degree. See your advisor.		
Math and Science Electives:		
MATH 1050	College Algebra (4.0)	
MATH 1060	Trigonometry (3.0)	
MATH 2210	Calculus III (3.0)	
MATH 2250	Differential Equations and Linear Algebra (4.0)	

or	MATH 2270	Linear Algebra (3.0)	
and	MATH 2280	Ordinary Differential Equations (3.0)	
	PHYS 2215	Physics for Scientists and Engineers I Lab (1.0)	
	PHYS 2225	Physics for Scientists and Engineers II Lab (1.0)	
	CHEM 1010	Introduction to Chemistry (3.0)	
	CHEM 1215	Principles of Chemistry I Laboratory (1.0)	
General Engineering Electives:			
	ENGR 1000	Introduction to Engineering (3.0)	
	ENGR 1020	Survey of Engineering (1.0)	
	ENGR 1030	Engineering Programming (If not already taken) (3.0)	
	ENGR 2140	Mechanics of Materials (3.0)	
	ENGR 2160	Introduction to Materials Science and Engineering (3.0)	
	ENGR 2300	Engineering Thermodynamics (3.0)	
	ENGR 2450	Computational Methods for Engineering Analysis (3.0)	
Biological and Chemical Electives:			
	BIOL 1610	College Biology I (4.0)	
	BIOL 1620	College Biology II (3.0)	
	BIOL 1615	College Biology I Laboratory (1.0)	
	BIOL 1625	College Biology II Laboratory (1.0)	
	BIOL 3400	Cell Biology (3.0)	
	MICR 2060	Microbiology for Health Professions (3.0)	
	MICR 2065	Microbiology for Health Professions Laboratory (1.0)	
	CHEM 1220	Principles of Chemistry II (4.0)	
	CHEM 1225	Principles of Chemistry II Laboratory (1.0)	
	CHEM 2315	Organic Chemistry I Laboratory (1.0)	
	CHEM 2320	Organic Chemistry II (4.0)	
	CHEM 2325	Organic Chemistry II Laboratory (1.0)	
CAD Electives:			
	EGDT 1020	3D Architectural Modeling (3.0)	
	EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)	
	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)	
	EGDT 1400	Surveying (3.0)	
	EGDT 1200	Mechanical Drafting (3.0)	
Computer and Electrical Electives:			
	CS 1400	Fundamentals of Programming (3.0)	
	CS 1410	Object-Oriented Programming (3.0)	
	CS 2300	Discrete Mathematical Structures I (3.0)	
	CS 2420	Introduction to Algorithms and Data Structures (3.0)	
	CS 2600	Computer Networks I (3.0)	
	CS 2810	Computer Organization and Architecture (3.0)	
	ECE 1020	Computer Engineering Problem Solving with MATLAB and LabVIEW (1.0)	
	ECE 2210	Fundamentals of Electric Circuit Analysis (3.0)	

ECE 2250	Circuit Theory (3.0)	
ECE 2255	Circuit Theory Lab (1.0)	
ECE 3740	Digital Design II (3.0)	

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. 2.5 or above in Math, Science, and Engineering courses.
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**Pre-Engineering, A.S.
Careers**

Careers:
Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

- NO MATCH

Mechanical Engineering, B.S.

Requirements

Mechanical engineering, which has evolved over the years as new technologies have emerged, is one of the broadest engineering disciplines. The Bachelor of Science in Mechanical Engineering prepares graduates to apply mathematical and scientific principles to the design, development, testing, and manufacturing of machines, robots, tools, biomedical devices, power generating equipment such as steam and gas turbines, wind turbines, solar systems, internal combustion engines, and heating, cooling, and refrigeration equipment.

Total Program Credits: 126

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. To be admitted to the BSME program, a student must complete the foundation courses in Mathematics (MATH 1210, 1220, 2210, 2250); Physics (PHYS 2210, 2215, 2220, 2225); Chemistry (CHEM 1210, 1215); English (ENGL 1010, 2010); and Engineering (ENGR 1000, 1030, 2010, 2030, 2140, 2160, 2450) with a minimum grade of C. 2. Students need a grade point average of 2.5 or above. 3. A student not meeting all of the admission requirements, may request in writing, a provisional admission status for a semester from the department. The provisional admission status must be approved by the mechanical engineering program coordinator. 		
General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing Humanities Social Sciences	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	

Engineering Technology

	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology Distribution ¹		3
	Fine Arts Distribution ¹		3
	COMM 1020	Public Speaking	3
	COMM 2110	Interpersonal Communication	3
	PHYS 2210	Physics for Scientists and Engineers I	4
	CHEM 1210	Principles of Chemistry I	4
Discipline Core Requirements:			78 Credits
	CHEM 1215	Principles of Chemistry I Laboratory	1
	ECE 2210	Fundamentals of Electric Circuit Analysis	3
	ENGR 1000	Introduction to Engineering	3
	ENGR 1030	Engineering Programming	3
	ENGR 2010	Engineering Statics	3
	ENGR 2030	Engineering Dynamics	3
	ENGR 2140	Mechanics of Materials	3
	ENGR 2160	Introduction to Materials Science and Engineering	3
	ENGR 2300	Engineering Thermodynamics	3
	ENGR 2450	Computational Methods for Engineering Analysis	3
	MATH 1220	Calculus II	5
	MATH 2210	Calculus III	3
	MATH 2250	Differential Equations and Linear Algebra	4
	ME 3010	Linear Systems	3
	ME 3140	Machine Design	3
	ME 3210	Manufacturing Processes for Engineers	3
	ME 3310	Fluid Mechanics	3
	ME 3320	Heat Transfer	3
	ME 3335	Thermal/Fluid Experimentation	2
	ME 4010	Automatic Controls	3
	ME 4015	Control and Vibration Experimentation	2
	ME 4410	Computer Aided Engineering	3
	ME 4510	Mechanical Engineering Seminar	1
	ME 4810	Mechanical Engineering Capstone I	3
	ME 4820	Mechanical Engineering Capstone II	3
	PHYS 2215	Physics for Scientists and Engineers I Lab	1
	PHYS 2220	Physics for Scientists and Engineers II	4
	PHYS 2225	Physics for Scientists and Engineers II Lab	1
Elective Requirements:			9 Credits

Choose 9 credits from the following. One course may be taken from Technical Elective list. At least six credit-hours must be at 4000 level.			9
ME Elective Courses			
	ME 3130	Kinematics (3)	
	ME 3160	Intermediate Materials (3)	
	ME 3170	Introduction to Plastics and Composites (3)	
	ME 3300	Applied Thermodynamics (3)	
	ME 4180	Compliant Mechanisms (3)	
	ME 4380	Design of Thermal/Fluid Systems (3)	
	ME 4390	Heating Ventilating and Air Conditioning Design (3)	
	ME 4420	Finite Element Methods (3)	
	ME 4550	Global Engineering (3)	
	ME 490R	Advanced Current Topics in Mechanical Engineering (1)	
Technical Elective Courses			
	ECE 3710	Applied Probability and Statistics for Engineers and Scientists (3)	
	TECH 3400	Project Management (3)	
	TECH 3850	Quality Management in Technology (3)	
Students may also take upper level computer, electrical, and mechanical engineering classes as technical electives in consultation with their faculty advisors and approval of the department offering the courses.			

Graduation Requirements:

1. Completion of a minimum of 126 semester credits, with a minimum of 40 mechanical engineering upper-division credits.
2. Overall grade point average of 2.5 or above, with a minimum grade of C in all discipline core and elective requirements.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU. Ten of these hours must be within the last 45 hours earned. At least 12 of the credit hours earned in residence must be in approved ME courses.
4. All transfer credits must be approved in writing by UVU and the mechanical engineering program coordinator.
5. No more than 80 semester hours and no more than 20 hours in ME courses of transfer credit.
6. No more than 6 semester hours may be earned through independent study.
7. Successful completion of at least one Global/Intercultural course.

Footnote

1. See published computer engineering list of GE

Mechanical Engineering, B.S.

Careers

Careers:

Engineering is an exciting major in terms of professional career opportunities, job satisfaction, and compensation. Career options exist in many engineering fields including: Aerospace, Biological, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Irrigation, Manufacturing, Materials, Mechanical, and Systems.

Related Careers

- Architectural and Engineering Managers
- Cost Estimators
- Aerospace Engineers
- Mechanical Engineers
- Engineering Teachers, Postsecondary

Mechatronics Engineering Technology, B.S.

Requirements

The Mechatronics Engineering Technology Degree from Utah Valley University prepares graduates to work in the Utah manufacturing sector as an automation technologist, design technician, PLC programmer, as well as many other aspects of implementing manufacturing systems. Students complete courses in PLC programming and architecture, materials, CAD, electrical and mechanical components, pneumatics, and motor control. Students will also take courses in technical writing, physics, chemistry, and business to round out their professional profile.

Total Program Credits: 121

General Education Requirements:		38 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
	PHIL 205G	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (recommended) (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Distribution Courses:			
	Biology	BIOL 1010 Recommended	3
	PHYS 2010	College Physics I (4.0) (fulfills Physical Science distribution)	4
	PHYS 2015	College Physics I Lab (1.0)	1
	CHEM 1010	Introduction to Chemistry (fulfills additional Biology or Physical Science)	3
	ENGL 2310	Technical Communication (fulfills Humanities Distribution)	3
	Fine Arts		3
	ECON 1010	Economics as a Social Science (fulfills Social/Behavioral Science) (3.0)	
or	MGMT 1010	Introduction to Business (fulfills Social/Behavioral Science) (3.0)	3
Discipline Core Requirements:		80 Credits	
	EGDT 1071	3 Dimensional Modeling--Solidworks	3
	MECH 1010	Introduction to Mechatronics	3
	MECH 1200	Electronics in Automation Design	3
	MECH 1205	Electronics in Automation Design Laboratory	2
	MECH 1250	Logic Fundamentals for Mechatronic Design	2
	MECH 1255	Logic Fundamentals for Mechatronic Design Laboratory	1
	MECH 2200	Semiconductors Used in Mechatronic Systems	3
	MECH 2205	Semiconductors in Mechatronic Systems Lab	1
	MECH 2300	Microcontroller Architecture and Programming	3

	MECH 2305	Microcontroller Architecture and Programming Lab	1
	MECH 2400	Mechanical Components	4
	MECH 2500	Introduction to PLCs in Mechatronic Design	4
	MECH 2510	Automation Systems Sensors	3
	MECH 2550	Advanced PLC Programming and Applications	4
	MECH 2600	Introduction to Pneumatics	3
	MECH 3000	Wiring Diagrams in Automation Systems	3
	MECH 3100	Advanced Technical Math Applied to Automation	2
	MECH 3220	Automation Motors and Controllers	2
	MECH 3225	Automation Motors and Controllers Laboratory	1
	MECH 3300	Industrial Networks	3
	MECH 3400	Statics and Strength of Materials	4
	MECH 3405	Statics and Material Properties for Mechatronics Laboratory	1
	MECH 3500	Industrial Robots	3
	MECH 3570	Design Analysis and Rapid Prototyping	3
	MECH 3700	CNC Machines	3
	MECH 4300	Advanced Pneumatic Design	3
	MECH 4400	Polymers/Composites and Processes	3
	MECH 4500	Advanced Automation Controls	3
	MECH 4800	Capstone Project	3
	TECH 3000	Introduction to Technology Management	3
Elective Requirements:		3 Credits	
	MECH 490R	Topics in Mechatronics	3
or	TECH 3400	Project Management (3.0)	
or	TECH 4000	Reliability Engineering and Safety (3.0)	

Graduation Requirements:

1. Completion of 121 or more credit hours.
2. Overall grade point average of 2.0 (C) or above, with no core course below a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU.
4. Successful completion of at least one Global/Intercultural course.

Mechatronics Engineering Technology, B.S.

Careers

Related Careers

- Architectural and Engineering Managers
- Engineers, All Other
- Engineering Teachers, Postsecondary

English Language Learning

Name:	English Language Learning
Location:	LA 209
Telephone:	801-863-5600
Email:	ElizabethN@uvu.edu
Web Address:	www.uvu.edu/ell
Chair:	Brian MacKay

English Language Learning

- **Department Chair:** Brian MacKay
- **Office:** LA 209d
- **Telephone:** 801-863-8272
- **Email:** brian.mackay@uvu.edu
- **Coordinator, Student & Faculty Services:** Gayla Amosa
- **Office:** LA 209f
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- **Operations Coordinator:** Elizabeth Nield
- **Office:** LA 209c
- **Telephone:** 801-863-6865
- **Email:** elizabethn@uvu.edu

The mission of the intensive English language program at UVU is to help non-native English-speaking students to understand and successfully use academic English at an American university. To accomplish this goal, our faculty and coursework provide a broad range of excellent academic and social opportunities. These opportunities help students develop and show proficiency in the skills of reading, writing, grammar, and listening/speaking.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of academic achievement and challenges them with higher expectations. The programs and departments of Literacies and Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, Writing Center, Academic Tutoring, Math Lab, and First Year Experience & Student Retention promote interdisciplinary partnerships as students transition into university academics.

- **Dean:** Forrest Williams
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- **Associate Dean:** Deborah Marrott
- **Office:** LA 210e
- **Telephone:** 801-863-8823
- **Email:** marrottd@uvu.edu
- **Assistant Dean:** Jessica Awtrey
- **Office:** LA 210d
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- **Email:** jessica.awtrey@uvu.edu

DEPARTMENT CHAIR

MACKAY, Brian R. *Lecturer*

FACULTY

BAILEY, Brooke *Lecturer*

BARLOW, Amy *Lecturer*

CONDIE, Heidi *Associate Professor*

EYRAUD, Kevin *Associate Professor*

MACKAY, Brian R. *Lecturer*

PETTERSSON, James *Professor*

Course Descriptions

English as a Second Lang..... 694

English and Literature

Name:	English & Literature
Location:	CB 407
Telephone:	801-863-8577
Email:	English@uvu.edu
Web Address:	uvu.edu/english
Chair:	Brian Whaley

Mission Statement

The Department of English and Literature at UVU provides an innovative and stimulating learning environment to help broaden cultural experiences, improve skills in written and verbal communication, deepen and refine abilities in critical thinking, and prepare students for graduate school and/or careers. By offering courses, programs, and activities in college-level writing, creative writing, literature, technical communication, and education, the department fosters an invigorating and diverse learning community that will enhance the way students envision themselves and their world.

English & Literature

- **Assistant Chair:** Robert Cousins
- **Telephone:** 801-863-8571
- **Email:** Robert.Cousins@uvu.edu

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- **Telephone:** 801-863-8574
- **Email:** DawnC@uvu.edu
- Robbin Anthony
- **Telephone:** 801-863-6796
- **Email:** AnthonRo@uvu.edu

Administrative Support:

- Jamie Holdaway
- **Office:** CB 402a
- **Telephone:** 801-863-8790
- Sara Muñoz de Silva
- **Office:** CB 407
- **Telephone:** 801-863-8577

DEPARTMENT CHAIR

MOSS, David Grant *Associate Professor*

DIRECTOR

MCPHERSON, Kathryn R. *Professor*

FACULTY

ALBRECHT-CRANE, Christa *Professor*
ANDERSON, Karin A. *Professor*
BENNION, Anna *Lecturer*
CARNEY, Rob *Professor*
CARTER, Angie *Lecturer*
CHADWICK, Tyler *Lecturer*
COUSINS, Robert J. *Professor*
CRANE, Mark E. *Associate Professor*
FEDECZKO, Wioleta *Associate Professor*
FULLMER, Stephen B. *Associate Professor*
GALE, Nathan A. *Assistant Professor*
GIBSON, Stephen D. *Associate Professor*
GODDARD, Todd *Assistant Professor*
GORELICK, Nathan *Assistant Professor*
GOSHERT, John *Professor*
JONES, Brock *Assistant Professor*
KAMAIOPILI, Kyle R. *Assistant Professor*
KERR, Lydia *Associate Professor*
LEE, Christopher *Lecturer*
MA, Ruen-chuan *Assistant Professor*
MATHESON, Breanne *Assistant Professor*
MCDONALD, Richard B. *Professor*
MCPHERSON, Kathryn R. *Professor*
MORTENSEN, Lee Ann *Professor*
MOSS, David Grant *Associate Professor*
MUGAVERO, Nicolas J. *Lecturer*
NADEAU, Ashley *Assistant Professor*
NICHOLS, Julie *Associate Professor*
PATTEN, Devin *Lecturer*
PEPPER, Mark *Associate Professor*
PETERSEN, Boyd *Lecturer*
PETERSEN, Jerry *Assistant Professor*
ROBERTSON, Jacob Levi *Lecturer*
SHELTON, Linda *Senior Lecturer*
SMITH, Thomas B. *Associate Professor*
SPROAT, Ethan *Assistant Professor*
THORNTON, Debra L. *Professor*
VAN DE GRAAF, Kara *Assistant Professor*
VOGEL, Charles A. *Associate Professor*
VOGEL, Sandra L. *Associate Professor*
WAGER, Jans *Professor*
WALLACE, Lorraine *Associate Professor*
WHALEY, Brian *Associate Professor*

Course Descriptions

English..... 679

Degrees & Programs

English with an Emphasis in Technical Communication, A.A.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Compete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
ENGL 2600	Critical Introduction to Literature	3
Fine Arts Distribution		3

Social/Behavioral Science		3
Discipline Core Requirements:		15 Credits
ENGL 2030	Writing for Social Change	3
ENGL 2050	Editing	3
ENGL 2250	Creative Process and Imaginative Writing	3
or ENGL 225H	Creative Process and Imaginative Writing (3.0)	
ENGL 2310	Technical Communication	3
Select ONE from the following list:		3
ART 1400	Graphic Computer Applications (3.0)	
DGM 1110	Digital Media Essentials I (4.0)	
Elective Requirements:		10 Credits
One Foreign Language		8
Any course 1000 or higher		2

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one foreign language.

English with an Emphasis in Technical Communication, A.A.

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English with an Emphasis in Technical Communication, A.S.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
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Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
ENGL 2600	Critical Introduction to Literature	3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		15 Credits
ENGL 2030	Writing for Social Change	3
ENGL 2050	Editing	3
ENGL 2250	Creative Process and Imaginative Writing	3
or ENGL 225H	Creative Process and Imaginative Writing (3.0)	
ENGL 2310	Technical Communication	3
Select ONE from the following list:		3
ART 1400	Graphic Computer Applications (3.0)	
DGM 1110	Digital Media Essentials I (4.0)	
Elective Requirements:		10 Credits
Any course 1000 or higher		10

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

English with an Emphasis in Technical Communication, A.S.**Careers**

Careers:

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

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- Postsecondary Teachers, All Other
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- Technical Writers
- Writers and Authors

English, A.A.**Requirements**

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Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	

English and Literature

	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Compete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	ENGL 2600	Critical Introduction to Literature	3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			15 Credits
Select 9 credits from the following:			9
	ENGL 2510	American Literature before 1865 (3.0)	
	ENGL 2520	American Literature after 1865 (3.0)	
	ENGL 2610	British Literature before 1800 (3.0)	
	ENGL 2620	British Literature after 1800 (3.0)	
Complete a minimum of any two lower-division ENGL courses or any lower-division course listed above that has not been previously completed.			6
Elective Requirements:			10 Credits
	One Foreign Language		8
	Any course 1000 or higher		2

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one foreign language.

English, A.A.

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals,

screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

English, A.S.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon.

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Total Program Credits: 60

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3

	Additional Biology or Physical Science	3
ENGL 2600	Critical Introduction to Literature	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		15 Credits
Select THREE from the following list:		9
ENGL 2510	American Literature before 1865 (3.0)	
ENGL 2520	American Literature after 1865 (3.0)	
ENGL 2610	British Literature before 1800 (3.0)	
ENGL 2620	British Literature after 1800 (3.0)	
Complete a minimum of any two lower-division ENGL courses or any lower-division course listed above that has not been previously completed.		6
Elective Requirements:		10 Credits
	Any course 1000 or higher	10

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

**English, A.S.
Careers**

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Editing and Document Design, Certificate of Proficiency**Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 15

Matriculation Requirements:		
1. AA/AS degree or higher from a regionally accredited institution of higher learning and one year full-time employment.		
Discipline Core Requirements:		12 Credits
Complete the following:		
ENGL 2050	Editing	3
ENGL 2310	Technical Communication	3
ENGL 3340	Digital Document Design	3
ENGL 3050	Advanced Editing and Design for Print Media	3
Elective Requirements:		3 Credits
Complete ONE of the following:		
ENGL 3300	Collaborative Communication for Technology Professions (3.0)	
ENGL 3320	Grant and Proposal Writing (3.0)	
ENGL 4340	Advanced Technical Communication (3.0)	
ENGL 436R	Topics in Technical Communication (3.0)	

Graduation Requirements:

1. Completion of a minimum of 15 credits.
2. Overall GPA of 2.0 or above.
3. Residency hours -- Minimum of 4 credits required through Course attendance at UVU.

**Editing and Document Design, Certificate of Proficiency
Careers**

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English Creative Writing, Minor**Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 21

English and Literature

Discipline Core Requirements:		18 Credits
Introductory Course (complete the following)		3
	ENGL 2250 Creative Process and Imaginative Writing (3.0)	
or	ENGL 225H Creative Process and Imaginative Writing (3.0)	
Creative Writing Courses (complete THREE from the following)		9
	ENGL 3420 Intermediate Fiction Writing (3.0)	
	ENGL 3430 Play Writing for Creative Writers (3.0)	
	ENGL 3440 Intermediate Poetry Writing (3.0)	
	ENGL 3450 Intermediate Creative Nonfiction Writing (3.0)	
	ENGL 4420 Advanced Fiction Writing I (3.0)	
	ENGL 4425 Advanced Fiction Writing II (3.0)	
	ENGL 4440 Advanced Poetry Writing I (3.0)	
	ENGL 4445 Advanced Poetry Writing II (3.0)	
	ENGL 4450 Advanced Creative Nonfiction Writing I (3.0)	
	ENGL 4455 Advanced Creative Nonfiction Writing II (3.0)	
Form and Theory Courses (complete the following)		6
	ENGL 2600 Critical Introduction to Literature (3.0)	
	ENGL 412R Studies in Literary Genres (3.0)	
Elective Requirements:		3 Credits
Choose from the following:		3
	ENGL 3050 Advanced Editing and Design for Print Media (3.0)	
	ENGL 3460 Wilderness and Environmental Writing (3.0)	
	ENGL 373R Literature of Cultures and Places (3.0)	
	ENGL 471R Eminent Authors (3.0)	
	ENGL 481R Internship (1.0) *	
	ENGL 490R Directed Readings (1.0) *	

Graduation Requirements:

1. Complete all courses with no grade lower than a C-.

Footnote

* Must be completed for a total of 3 credits

English Creative Writing, Minor

Careers

Careers:

Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Writers and Authors

English Education, Minor

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 18

Matriculation Requirements:		
1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.		
2. Must be accepted into a Secondary Education major		
Discipline Core Requirements:		18 Credits
	ENGL 2510 American Literature before 1865 (3.0)	
	ENGL 2520 American Literature after 1865 (3.0)	
	ENGL 2610 British Literature before 1800 (3.0)	
	ENGL 2620 British Literature after 1800 (3.0)	
	ENGL 2600 Critical Introduction to Literature (3.0)	
Complete the following:		
	ENGL 3890 Contemporary Critical Approaches to Literature	3
	ENGL 4210 Methods in Teaching Literacy I	3
	ENGL 4220 Methods in Teaching Literacy II	3
Choose one from the following:		3
	ENGL 3010 Rhetorical Theory (3.0)	
	ENGL 3020 Modern English Grammars (3.0)	
	ENGL 3040 History of the English Language (3.0)	
Complete one from the following:		3
	ENGL 3510 Early American Literature (3.0)	
	ENGL 3520 Literature of the American Renaissance (3.0)	
	ENGL 3525 American Literary Realism and Naturalism (3.0)	
	ENGL 3530 Modern American Literature (3.0)	
	ENGL 3540 Contemporary American Literature (3.0)	
Complete one from the following:		3
	ENGL 3610 Medieval Literature (3.0)	
	ENGL 3620 Tudor British Literature (3.0)	
	ENGL 3630 Stuart British Literature (3.0)	
	ENGL 3640 Restoration and 18th Century British Literature (3.0)	
	ENGL 3650 Romantic British Literature (3.0)	
	ENGL 3655 Victorian British Literature (3.0)	
	ENGL 3660 Modern British Literature (3.0)	
	ENGL 3670 Contemporary British Literature (3.0)	

Graduation Requirements:

1. Complete all courses with no grade lower than a C- and no grade lower than a B- in methods courses.

English Education, Minor

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- Education Teachers, Postsecondary
- English Language and Literature Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

English Literary Studies, Minor

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 18

Matriculation Requirements:		
1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.		
Discipline Core Requirements:		18 Credits
Complete the following:		
ENGL 3090	Academic Writing for English Majors	3
ENGL 3890	Contemporary Critical Approaches to Literature	3
Complete ONE from the following:		3
ENGL 3510	Early American Literature (3.0)	
ENGL 3520	Literature of the American Renaissance (3.0)	
ENGL 3525	American Literary Realism and Naturalism (3.0)	
ENGL 3530	Modern American Literature (3.0)	
ENGL 3540	Contemporary American Literature (3.0)	
Complete ONE of the following:		3
ENGL 3610	Medieval Literature (3.0)	
ENGL 3620	Tudor British Literature (3.0)	
ENGL 3630	Stuart British Literature (3.0)	
ENGL 3640	Restoration and 18th Century British Literature (3.0)	

ENGL 3650	Romantic British Literature (3.0)	
ENGL 3655	Victorian British Literature (3.0)	
ENGL 3660	Modern British Literature (3.0)	
ENGL 3670	Contemporary British Literature (3.0)	
Complete ONE from the following:		3
ENGL 3010	Rhetorical Theory (3.0)	
ENGL 3020	Modern English Grammars (3.0)	
ENGL 3040	History of the English Language (3.0)	
Complete ONE from the following:		3
ENGL 3420	Intermediate Fiction Writing (3.0)	
ENGL 3440	Intermediate Poetry Writing (3.0)	
ENGL 3710	Literature by Women (3.0)	
ENGL 373R	Literature of Cultures and Places (3.0)	
ENGL 374G	Literature of the Sacred (3.0)	
ENGL 376G	World Literature (3.0)	
ENGL 3780	Mormon Literature (3.0)	
ENGL 3820	History of Literary Criticism (3.0)	
ENGL 401R	Topics in Rhetoric (3.0)	
ENGL 412R	Studies in Literary Genres (3.0)	
ENGL 4420	Advanced Fiction Writing I (3.0)	
ENGL 4440	Advanced Poetry Writing I (3.0)	
ENGL 4450	Advanced Creative Nonfiction Writing I (3.0)	
ENGL 4570	Studies in the American Novel (3.0)	
ENGL 4620	Chaucer (3.0)	
ENGL 463R	Topics in Shakespeare (3.0)	
ENGL 4640	Milton (3.0)	
ENGL 471R	Eminent Authors (3.0)	
ENGL 474R	Topics in Folklore (3.0)	
ENGL 476G	Multi-ethnic Literature in America (3.0)	
ENGL 486R	Topics in Literature (3.0)	
ENGL 490R	Directed Readings (1.0)	

Graduation Requirements:

1. Complete all courses with no grade lower than a C-.

English Literary Studies, Minor

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Technical Communication, Minor

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 20

Matriculation Requirements:			
1. Completion of 35 semester credits with a cumulative GPA: 2.5 minimum. Or completion of an Associate in Science or an Associate in Arts degree. Minimum grade of "C" in all courses.			
2. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			20 Credits
Complete the following:			
	ENGL 2310	Technical Communication	3
	ENGL 3010	Rhetorical Theory	3
	ENGL 481R	Internship (1.0) (must be taken for a minimum of 2 credits)	2
Complete FOUR courses from the following:			12
	ENGL 3020	Modern English Grammars (3.0)	
	ENGL 3050	Advanced Editing and Design for Print Media (3.0)	
	ENGL 3300	Collaborative Communication for Technology Professions (3.0)	
	ENGL 3320	Grant and Proposal Writing (3.0)	
	ENGL 3340	Digital Document Design (3.0)	
	ENGL 3460	Wilderness and Environmental Writing (3.0)	
	ENGL 4340	Advanced Technical Communication (3.0)	
	ENGL 436R	Topics in Technical Communication (3.0)	

Technical Communication, Minor

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

Writing Studies, Minor

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 21

Discipline Core Requirements:			12 Credits
Complete the following:			
	ENGL 2310	Technical Communication (3.0)	3
	ENGL 3010	Rhetorical Theory (3.0)	3
	ENGL 3060	Visual Rhetoric (3.0)	3
	ENGL 3070	Public Rhetorics (3.0)	3
Elective Requirements:			9 Credits
Professional Writing Practices: Complete TWO of the following (or other advisor-approved Writing Studies course):			6
	ENGL 2050	Editing (3.0)	
	ENGL 3050	Advanced Editing and Design for Print Media (3.0)	
	ENGL 3320	Grant and Proposal Writing (3.0)	
	ENGL 4340	Advanced Technical Communication (3.0)	
	ENGL 436R	Topics in Technical Communication (3.0)	
	ENGL 481R	Internship (1.0)	
Language and Cultural Rhetorics: Complete ONE of the following (or other advisor-approved Writing Studies course):			3
	ENGL 2030	Writing for Social Change (3.0)	
	ENGL 3030	Writing in the Disciplines (3.0)	
	ENGL 3085	Rhetorical Approaches to Popular Culture (3.0)	
	ENGL 401R	Topics in Rhetoric (3.0)	

Writing Studies, Minor

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English - Creative Writing Emphasis, B.A.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:		
Complete the following courses:		
ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.		
General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3

Humanities Distribution (Fulfilled with Foreign Language 202G/2020* course)		4
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		22 Credits
ENGL 2510	American Literature before 1865	3
or ENGL 2520	American Literature after 1865 (3.0)	
ENGL 2610	British Literature before 1800	3
or ENGL 2620	British Literature after 1800 (3.0)	
ENGL 2600	Critical Introduction to Literature	3
ENGL 3000	Professional Considerations for the English Major **	1
ENGL 3090	Academic Writing for English Majors ***	3
ENGL 3890	Contemporary Critical Approaches to Literature	3
ENGL 4950	Senior Seminar	3
Language Core- Complete one of the following: ****		3
ENGL 3010	Rhetorical Theory (3.0)	
ENGL 3020	Modern English Grammars (3.0)	
ENGL 3040	History of the English Language (3.0)	
Elective Requirements:		35 Credits
One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution)		12
Complete any courses 1000 level or higher. Upper division courses may be necessary for graduation. Please see Adviser.		23
Emphasis Requirements:		27 Credits
Complete THREE from the following:		9
ENGL 3420	Intermediate Fiction Writing (3.0)	
ENGL 3430	Play Writing for Creative Writers (3.0)	
ENGL 3440	Intermediate Poetry Writing (3.0)	
ENGL 3450	Intermediate Creative Nonfiction Writing (3.0)	
Complete TWO from the following (both courses must be within the same genre):		6
ENGL 4420	Advanced Fiction Writing I (3.0)	
ENGL 4425	Advanced Fiction Writing II (3.0)	
ENGL 4440	Advanced Poetry Writing I (3.0)	
ENGL 4445	Advanced Poetry Writing II (3.0)	
ENGL 4450	Advanced Creative Nonfiction Writing I (3.0)	
ENGL 4455	Advanced Creative Nonfiction Writing II (3.0)	
Complete the following:		
ENGL 412R	Studies in Literary Genres +	6
Complete 6 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements.		6

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.

English and Literature

5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grade below C- in required courses.
7. Successful completion of at least one Global/Intercultural course.

Footnote
** Should be taken early on in the student's course of study, by the junior year at the latest.
*** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
**** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.
+ Course is taken twice as two different genres.

English - Creative Writing Emphasis, B.A.

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Writers and Authors

English - Creative Writing Emphasis, B.S.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:			
Complete the following courses:			
ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:			3

	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			22 Credits
	ENGL 2510	American Literature before 1865	3
or	ENGL 2520	American Literature after 1865 (3.0)	
	ENGL 2610	British Literature before 1800	3
or	ENGL 2620	British Literature after 1800 (3.0)	
	ENGL 2600	Critical Introduction to Literature	3
	ENGL 3000	Professional Considerations for the English Major *	1
	ENGL 3090	Academic Writing for English Majors **	3
	ENGL 3890	Contemporary Critical Approaches to Literature	3
	ENGL 4950	Senior Seminar	3
Language Core- Complete one of the following: ***			3
	ENGL 3010	Rhetorical Theory (3.0)	
	ENGL 3020	Modern English Grammars (3.0)	
	ENGL 3040	History of the English Language (3.0)	
Elective Requirements:			36 Credits
Complete any courses 1000 level or higher. Upper division may be necessary for graduation. Please see Adviser.			36

Emphasis Requirements:		27 Credits
Complete THREE from the following:		9
ENGL 3420	Intermediate Fiction Writing (3.0)	
ENGL 3430	Play Writing for Creative Writers (3.0)	
ENGL 3440	Intermediate Poetry Writing (3.0)	
ENGL 3450	Intermediate Creative Nonfiction Writing (3.0)	
Complete TWO from the following (both courses must be within the same genre):		6
ENGL 4420	Advanced Fiction Writing I (3.0)	
ENGL 4425	Advanced Fiction Writing II (3.0)	
ENGL 4440	Advanced Poetry Writing I (3.0)	
ENGL 4445	Advanced Poetry Writing II (3.0)	
ENGL 4450	Advanced Creative Nonfiction Writing I (3.0)	
ENGL 4455	Advanced Creative Nonfiction Writing II (3.0)	
Complete the following:		
ENGL 412R	Studies in Literary Genres +	6
Complete 6 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements.		6

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be 3000 level or higher.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grade below C- in required courses.
6. Successful completion of at least one Global/Intercultural course.

Footnote
* Should be taken early on in the student's course of study, by the junior year at the latest.
** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
*** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.
+ Course is taken twice as two different genres.

English - Creative Writing Emphasis, B.S.**Careers**

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Writers and Authors

English Education, B.A.**Requirements**

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 122

Matriculation Requirements:		
1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.		
Secondary Education Matriculation Requirements:		
1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.		
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.		
3. Completion of all General Education requirements and the majority of content area courses.		
4. Pass group interview directed by the Secondary Teacher Education Department.		
5. Pass LiveScan Criminal Background Check.		
General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2

English and Literature

Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (Fulfilled with Foreign Language 202G/2020* course)		4
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			74 Credits
Complete the following:			
	ENGL 2600	Critical Introduction to Literature	3
	ENGL 2510	American Literature before 1865 (3.0)	
or	ENGL 2520	American Literature after 1865	3
	ENGL 2610	British Literature before 1800 (3.0)	
or	ENGL 2620	British Literature after 1800	3
	ENGL 3090	Academic Writing for English Majors	3
	ENGL 3890	Contemporary Critical Approaches to Literature	3
	ENGL 4210	Methods in Teaching Literacy I	3
	ENGL 4230	Methods in Teaching Literacy III Teaching the Conventions of Writing	3
	ENGL 4220	Methods in Teaching Literacy II	3
Language Core (complete ONE from the following)			3
	ENGL 3010	Rhetorical Theory (3.0)	
	ENGL 3020	Modern English Grammars (3.0)	
	ENGL 3040	History of the English Language (3.0)	
American Literature (complete TWO from the following)			6
	ENGL 3510	Early American Literature (3.0)	
	ENGL 3520	Literature of the American Renaissance (3.0)	
	ENGL 3525	American Literary Realism and Naturalism (3.0)	
	ENGL 3530	Modern American Literature (3.0)	
	ENGL 3540	Contemporary American Literature (3.0)	
British Literature, pre-1800 (complete ONE from the following)			3
	ENGL 3610	Medieval Literature (3.0)	
	ENGL 3620	Tudor British Literature (3.0)	
	ENGL 3630	Stuart British Literature (3.0)	
	ENGL 3640	Restoration and 18th Century British Literature (3.0)	
British Literature, post-1800 (complete ONE from the following)			3
	ENGL 3650	Romantic British Literature (3.0)	
	ENGL 3655	Victorian British Literature (3.0)	
	ENGL 3660	Modern British Literature (3.0)	
	ENGL 3670	Contemporary British Literature (3.0)	
Complete TWO from the following:			6
	ENGL 3420	Intermediate Fiction Writing (3.0)	
	ENGL 3440	Intermediate Poetry Writing (3.0)	
	ENGL 3710	Literature by Women (3.0)	
	ENGL 373R	Literature of Cultures and Places (3.0)	

ENGL 374G	Literature of the Sacred (3.0)	
ENGL 376G	World Literature (3.0)	
ENGL 3780	Mormon Literature (3.0)	
ENGL 3820	History of Literary Criticism (3.0)	
ENGL 401R	Topics in Rhetoric (3.0)	
ENGL 412R	Studies in Literary Genres (3.0)	
ENGL 4250	Adolescent Literature (3.0)	
ENGL 4420	Advanced Fiction Writing I (3.0)	
ENGL 4440	Advanced Poetry Writing I (3.0)	
ENGL 4450	Advanced Creative Nonfiction Writing I (3.0)	
ENGL 4570	Studies in the American Novel (3.0)	
ENGL 4620	Chaucer (3.0)	
ENGL 463R	Topics in Shakespeare (3.0)	
ENGL 4640	Milton (3.0)	
ENGL 471R	Eminent Authors (3.0)	
ENGL 474R	Topics in Folklore (3.0)	
ENGL 476G	Multi-ethnic Literature in America (3.0)	
ENGL 486R	Topics in Literature (3.0)	
Secondary Education Licensure (ENGL 4210 is substituted for EDSC 4440):		
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSP 3400	Exceptional Students	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
Elective Requirements:		12 Credits
One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution)		12

Graduation Requirements:

1. Completion of a minimum of 122 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 16 credit hours of course work from one foreign language to include the 1010, 1020, 2010, and 202G/2020* levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

English Education, B.A.

Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts,

critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- Education Teachers, Postsecondary
- English Language and Literature Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

English Education, B.S.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon.

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Total Program Credits: 122

Matriculation Requirements:		
1. Completion of the following prerequisite courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865 or ENGL 2520, American Literature after 1865; ENGL 2610, British Literature before 1800 or ENGL 2620, British Literature after 1800.		
Secondary Education Matriculation Requirements:		
1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.		
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.		
3. Completion of all General Education requirements and the majority of content area courses.		
4. Pass group interview directed by the Secondary Teacher Education Department.		
5. Pass LiveScan Criminal Background Check.		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	

and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			74 Credits
Complete the following:			
	ENGL 2600	Critical Introduction to Literature	3
	ENGL 2510	American Literature before 1865 (3.0)	
or	ENGL 2520	American Literature after 1865	3
	ENGL 2610	British Literature before 1800 (3.0)	
or	ENGL 2620	British Literature after 1800	3
	ENGL 3090	Academic Writing for English Majors	3
	ENGL 3890	Contemporary Critical Approaches to Literature	3
	ENGL 4210	Methods in Teaching Literacy I	3
	ENGL 4220	Methods in Teaching Literacy II	3
	ENGL 4230	Methods in Teaching Literacy III Teaching the Conventions of Writing	3
Language Core (complete ONE from the following)			3
	ENGL 3010	Rhetorical Theory (3.0)	
	ENGL 3020	Modern English Grammars (3.0)	
	ENGL 3040	History of the English Language (3.0)	
American Literature (complete TWO from the following)			6
	ENGL 3510	Early American Literature (3.0)	
	ENGL 3520	Literature of the American Renaissance (3.0)	
	ENGL 3525	American Literary Realism and Naturalism (3.0)	
	ENGL 3530	Modern American Literature (3.0)	
	ENGL 3540	Contemporary American Literature (3.0)	
British Literature, pre-1800 (complete ONE from the following)			3
	ENGL 3610	Medieval Literature (3.0)	
	ENGL 3620	Tudor British Literature (3.0)	
	ENGL 3630	Stuart British Literature (3.0)	
	ENGL 3640	Restoration and 18th Century British Literature (3.0)	
British Literature, post-1800 (complete ONE from the following)			3
	ENGL 3650	Romantic British Literature (3.0)	

English and Literature

ENGL 3655	Victorian British Literature (3.0)	
ENGL 3660	Modern British Literature (3.0)	
ENGL 3670	Contemporary British Literature (3.0)	
Complete TWO from the following:		6
ENGL 3420	Intermediate Fiction Writing (3.0)	
ENGL 3440	Intermediate Poetry Writing (3.0)	
ENGL 3710	Literature by Women (3.0)	
ENGL 373R	Literature of Cultures and Places (3.0)	
ENGL 374G	Literature of the Sacred (3.0)	
ENGL 376G	World Literature (3.0)	
ENGL 3780	Mormon Literature (3.0)	
ENGL 3820	History of Literary Criticism (3.0)	
ENGL 401R	Topics in Rhetoric (3.0)	
ENGL 412R	Studies in Literary Genres (3.0)	
ENGL 4250	Adolescent Literature (3.0)	
ENGL 4420	Advanced Fiction Writing I (3.0)	
ENGL 4440	Advanced Poetry Writing I (3.0)	
ENGL 4450	Advanced Creative Nonfiction Writing I (3.0)	
ENGL 4570	Studies in the American Novel (3.0)	
ENGL 4620	Chaucer (3.0)	
ENGL 463R	Topics in Shakespeare (3.0)	
ENGL 4640	Milton (3.0)	
ENGL 471R	Eminent Authors (3.0)	
ENGL 474R	Topics in Folklore (3.0)	
ENGL 476G	Multi-ethnic Literature in America (3.0)	
ENGL 486R	Topics in Literature (3.0)	
Secondary Education Licensure (ENGL 4210 is substituted for EDSC 4440):		
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSP 3400	Exceptional Students	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
Elective Requirements:		13 Credits
Any course 1000 or higher (from AA/AS degree).		13

Graduation Requirements:

1. Completion of a minimum of 122 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

English Education, B.S.

Careers

Careers:
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Related Careers

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- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

English- Literary Studies Emphasis, B.A.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:		
1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.		
General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	

and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (Fulfilled with Foreign Language 202G/2020 course)*		4
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			22 Credits
	ENGL 2510	American Literature before 1865	3
	ENGL 2520	American Literature after 1865 (3.0)	
	ENGL 2610	British Literature before 1800	3
	ENGL 2620	British Literature after 1800 (3.0)	
	ENGL 2600	Critical Introduction to Literature	3
	ENGL 3000	Professional Considerations for the English Major **	1
	ENGL 3090	Academic Writing for English Majors ***	3
	ENGL 3890	Contemporary Critical Approaches to Literature	3
	ENGL 4950	Senior Seminar	3
Language Core- Complete one of the following: ****			3
	ENGL 3010	Rhetorical Theory (3.0)	
	ENGL 3020	Modern English Grammars (3.0)	
	ENGL 3040	History of the English Language (3.0)	
Elective Requirements:			35 Credits
	One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution)		12
	Complete any courses 1000 level or higher. Upper division courses may be necessary for graduation. Please see Adviser.		23
Emphasis Requirements:			27 Credits
American Literature (complete TWO from the following)			6
	ENGL 3510	Early American Literature (3.0)	
	ENGL 3520	Literature of the American Renaissance (3.0)	
	ENGL 3525	American Literary Realism and Naturalism (3.0)	
	ENGL 3530	Modern American Literature (3.0)	
	ENGL 3540	Contemporary American Literature (3.0)	
British Literature, pre-1800 (complete ONE from the following)			3
	ENGL 3610	Medieval Literature (3.0)	
	ENGL 3620	Tudor British Literature (3.0)	
	ENGL 3630	Stuart British Literature (3.0)	

	ENGL 3640	Restoration and 18th Century British Literature (3.0)	
British Literature, post-1800 (complete ONE from the following)			3
	ENGL 3650	Romantic British Literature (3.0)	
	ENGL 3655	Victorian British Literature (3.0)	
	ENGL 3660	Modern British Literature (3.0)	
	ENGL 3670	Contemporary British Literature (3.0)	
Shakespeare (Complete the following)			
	ENGL 463R	Topics in Shakespeare	3
Literature Elective (Complete ONE of the following)			3
	ENGL 357G	Native American Literature (3.0)	
	ENGL 3710	Literature by Women (3.0)	
	ENGL 373R	Literature of Cultures and Places (3.0)	
	ENGL 374G	Literature of the Sacred (3.0)	
	ENGL 376G	World Literature (3.0)	
	ENGL 3780	Mormon Literature (3.0)	
	ENGL 3820	History of Literary Criticism (3.0)	
	ENGL 4570	Studies in the American Novel (3.0)	
	ENGL 4620	Chaucer (3.0)	
	ENGL 4640	Milton (3.0)	
	ENGL 471R	Eminent Authors (3.0)	
	ENGL 476G	Multi-ethnic Literature in America (3.0)	
	ENGL 486R	Topics in Literature (3.0)	
Complete 9 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements.			9

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grade below C- in required courses.
7. Successful completion of at least one Global/Intercultural course.

Footnote
** Should be taken early on in the student's course of study, by the junior year at the latest.
*** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
**** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

English- Literary Studies Emphasis, B.A. Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts,

English and Literature

critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

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Requirements

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Total Program Credits: 120

Matriculation Requirements:		
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MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		

Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		22 Credits
ENGL 2510	American Literature before 1865	3
or ENGL 2520	American Literature after 1865 (3.0)	
ENGL 2610	British Literature before 1800	3
or ENGL 2620	British Literature after 1800 (3.0)	
ENGL 2600	Critical Introduction to Literature	3
ENGL 3000	Professional Considerations for the English Major *	1
ENGL 3090	Academic Writing for English Majors **	3
ENGL 3890	Contemporary Critical Approaches to Literature	3
ENGL 4950	Senior Seminar	3
Language Core- Complete one of the following: ***		3
ENGL 3010	Rhetorical Theory (3.0)	
ENGL 3020	Modern English Grammars (3.0)	
ENGL 3040	History of the English Language (3.0)	
Elective Requirements:		36 Credits
Complete any courses 1000 level or higher. Upper division may be necessary for graduation. Please see Adviser.		36
Emphasis Requirements:		27 Credits
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ENGL 3520	Literature of the American Renaissance (3.0)	
ENGL 3525	American Literary Realism and Naturalism (3.0)	
ENGL 3530	Modern American Literature (3.0)	
ENGL 3540	Contemporary American Literature (3.0)	
British Literature, pre-1800 (complete ONE from the following)		3
ENGL 3610	Medieval Literature (3.0)	
ENGL 3620	Tudor British Literature (3.0)	
ENGL 3630	Stuart British Literature (3.0)	
ENGL 3640	Restoration and 18th Century British Literature (3.0)	
British Literature, post-1800 (complete ONE from the following)		3
ENGL 3650	Romantic British Literature (3.0)	
ENGL 3655	Victorian British Literature (3.0)	
ENGL 3660	Modern British Literature (3.0)	
ENGL 3670	Contemporary British Literature (3.0)	
Shakespeare (Complete the following)		
ENGL 463R	Topics in Shakespeare	3
Literature Elective (Complete ONE of the following)		3
ENGL 357G	Native American Literature (3.0)	
ENGL 3710	Literature by Women (3.0)	

ENGL 373R	Literature of Cultures and Places (3.0)	
ENGL 374G	Literature of the Sacred (3.0)	
ENGL 376G	World Literature (3.0)	
ENGL 3780	Mormon Literature (3.0)	
ENGL 3820	History of Literary Criticism (3.0)	
ENGL 4570	Studies in the American Novel (3.0)	
ENGL 4620	Chaucer (3.0)	
ENGL 4640	Milton (3.0)	
ENGL 471R	Eminent Authors (3.0)	
ENGL 476G	Multi-ethnic Literature in America (3.0)	
ENGL 486R	Topics in Literature (3.0)	
Complete 9 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements.		9

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be 3000 level or higher.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grade below C- in required courses.
6. Successful completion of at least one Global/Intercultural course.

Footnote
* Should be taken early on in the student's course of study, by the junior year at the latest.
** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
*** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

English- Literary Studies Emphasis, B.S. Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

English- Writing Studies Emphasis, B.A.

Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon.

The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:		
1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.		
General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution (Fulfilled with Foreign Language 202G/2020* course)		4
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		22 Credits
ENGL 2510	American Literature before 1865	3
or ENGL 2520	American Literature after 1865 (3.0)	

English and Literature

	ENGL 2610	British Literature before 1800	3
or	ENGL 2620	British Literature after 1800 (3.0)	
	ENGL 2600	Critical Introduction to Literature	3
	ENGL 3000	Professional Considerations for the English Major **	1
	ENGL 3090	Academic Writing for English Majors ***	3
	ENGL 3890	Contemporary Critical Approaches to Literature	3
	ENGL 4950	Senior Seminar	3
Language Core- Complete one of the following: ****			3
	ENGL 3010	Rhetorical Theory (3.0)	
	ENGL 3020	Modern English Grammars (3.0)	
	ENGL 3040	History of the English Language (3.0)	
Elective Requirements:			35 Credits
One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution)			12
Complete any courses 1000 level or higher. Upper division courses may be necessary for graduation. Please see Adviser.			23
Emphasis Requirements:			27 Credits
Complete ALL of the following:			12
	ENGL 2310	Technical Communication (3.0)	
	ENGL 3060	Visual Rhetoric (3.0)	
	ENGL 3070	Public Rhetorics (3.0)	
	ENGL 481R	Internship (take for at least 3 credits) (1.0)	
Professional Writing Practices--Complete TWO of the following (or other advisor-approved Writing Studies courses):			6
	ENGL 2050	Editing (3.0)	
	ENGL 3050	Advanced Editing and Design for Print Media (3.0)	
	ENGL 3320	Grant and Proposal Writing (3.0)	
	ENGL 3340	Digital Document Design (3.0)	
	ENGL 4340	Advanced Technical Communication (3.0)	
	ENGL 436R	Topics in Technical Communication (3.0)	
Language and Cultural Rhetorics--Complete TWO of the following (or other advisor-approved Writing Studies courses):			6
	ENGL 2030	Writing for Social Change (3.0)	
	ENGL 3030	Writing in the Disciplines (3.0)	
	ENGL 3085	Rhetorical Approaches to Popular Culture (3.0)	
	ENGL 401R	Topics in Rhetoric (3.0)	
Complete 3 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements.			3

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.

6. No grade below C- in required courses.
7. Successful completion of at least one Global/Intercultural course.

Footnote
** Should be taken early on in the student's course of study, by the junior year at the latest.
*** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
**** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

English- Writing Studies Emphasis, B.A. Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

English- Writing Studies Emphasis, B.S. Requirements

UVU's English program is designed to give students skill, confidence, and versatility in writing, speaking, and interpreting texts. The program provides opportunities for students to consider and practice the applications of effective language use in diverse situations: professional, pragmatic, social, political, and aesthetic. The English program emphasizes knowledge and use of standard English in all written work, yet incorporates an understanding that English is a desirably diverse and variable phenomenon. The courses of study in English are designed to familiarize students with much of the traditional canon of literature. They are also designed to provide students with the critical and ethical skills necessary to interrogate this canon, to incorporate and legitimize their own and others' "different" voices, not just in the academy, but in any of the many situations in which language influences human activity.

Total Program Credits: 120

Matriculation Requirements:		
1. Complete the following courses: ENGL 2600, Critical Introduction to Literature; ENGL 2510, American Literature before 1865, or ENGL 2520, American Literature after 1865; and ENGL 2610, British Literature before 1800, or ENGL 2620, British Literature after 1800.		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	

	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution	3
		Fine Arts Distribution	3
		Social/Behavioral Science	3
Discipline Core Requirements:			22 Credits
	ENGL 2510	American Literature before 1865	3
or	ENGL 2520	American Literature after 1865 (3.0)	
	ENGL 2610	British Literature before 1800	3
or	ENGL 2620	British Literature after 1800 (3.0)	
	ENGL 2600	Critical Introduction to Literature	3
	ENGL 3000	Professional Considerations for the English Major *	1
	ENGL 3090	Academic Writing for English Majors **	3
	ENGL 3890	Contemporary Critical Approaches to Literature	3
	ENGL 4950	Senior Seminar	3
Language Core- Complete one of the following: ***			3
	ENGL 3010	Rhetorical Theory (3.0)	
	ENGL 3020	Modern English Grammars (3.0)	
	ENGL 3040	History of the English Language (3.0)	
Elective Requirements:			36 Credits
		Complete any courses 1000 level or higher. Upper division may be necessary for graduation. Please see Adviser.	36
Emphasis Requirements:			27 Credits
Complete ALL of the following:			12
	ENGL 2310	Technical Communication (3.0)	
	ENGL 3060	Visual Rhetoric (3.0)	

	ENGL 3070	Public Rhetorics (3.0)	
	ENGL 481R	Internship (take for at least 3 credits) (1.0)	
Professional Writing Practices--Complete TWO of the following (or other advisor-approved Writing Studies courses):			6
	ENGL 2050	Editing (3.0)	
	ENGL 3050	Advanced Editing and Design for Print Media (3.0)	
	ENGL 3320	Grant and Proposal Writing (3.0)	
	ENGL 3340	Digital Document Design (3.0)	
	ENGL 4340	Advanced Technical Communication (3.0)	
	ENGL 436R	Topics in Technical Communication (3.0)	
Language and Cultural Rhetorics--Complete TWO of the following (or other advisor-approved Writing Studies courses):			6
	ENGL 2030	Writing for Social Change (3.0)	
	ENGL 3030	Writing in the Disciplines (3.0)	
	ENGL 3085	Rhetorical Approaches to Popular Culture (3.0)	
	ENGL 401R	Topics in Rhetoric (3.0)	
Complete 3 upper-division credits of ENGL coursework beyond those courses taken to fulfill discipline core or emphasis requirements.			3

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be 3000 level or higher.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grade below C- in required courses.
6. Successful completion of at least one Global/Intercultural course.

Footnote
* Should be taken early on in the student's course of study, by the junior year at the latest.
** Should be taken early in the student's junior year, as it serves as crucial preparation for nearly all upper-division English courses.
*** Students pursuing the Writing Studies emphasis should take ENGL 3010 Rhetorical Theory.

English- Writing Studies Emphasis, B.S. Careers

Careers:
Employers expect clear verbal and written communication, critical thinking and reading, audience analysis, and persuasive presentations and research from their employees. English and Literature students often work as teachers, analysts, critics, librarians, creative writers, public relations specialists, lobbyists, copywriters, journalists, editors, technical writers, and professors. Language used well is an important part of websites, legislation, novels, document design, instruction manuals, screenplays, advertising, news reporting, etc. Students in English at UVU are also well prepared for graduate work in law, business, and education.

Related Careers

- English Language and Literature Teachers, Postsecondary
- Postsecondary Teachers, All Other
- Editors
- Technical Writers
- Writers and Authors

Exercise Science and Outdoor Recreation

Name:	Exercise Science & Outdoor Recreation
Location:	BL 147
Telephone:	801-863-8439
Email:	Michael.Bohne@uvu.edu
Web Address:	www.uvu.edu/exercisescience/
Chair:	Michael Bohne

Mission Statement

The Mission of the Department of Exercise Science and Outdoor Recreation is consistent with the College's Mission in its commitment to providing students with excellent professional, ethical, and exciting educational experiences through modern, effective pedagogical and scholarly approaches. Baccalaureate programs offered in Physical Education Teacher Education (PETE) and Exercise Science and Outdoor Recreation (with concentrations in Exercise Science and Outdoor Recreation Management) provide a broad discipline approach for optimal promotion of physical activity, recreation, fitness, health, wellness, and quality of life for all. The curricula are balanced in theory and application and are specifically designed to provide students with experiential education that promotes leadership, teamwork, service learning, values, diversity, and lifelong learning. To best serve our students, curricula have been designed to reflect current market demands. Depending on the specific area of study, graduates from this program will possess exceptional knowledge and skills and be well prepared for careers and/or graduate school in the following areas:

- Medicine
- Physical and Occupational Therapy
- Dentistry
- Physician Assistant (PA)
- Fitness Trainer/Technician
- Corporate Wellness
- Cardiac Rehab
- Teaching/Coaching
- Travel/Tourism
- Recreational Sports Administration
- Federal and State Land Management Agencies
- Programs for At Risk Youth
- Resource Management

In addition to preparing students for professional opportunities or graduate study in related fields, the program is intended to prepare all students for a variety of professional certifications offered in their respective fields of study. The faculty in the department work collaboratively and strive to support the Mission through our commitment to outstanding teaching, mentorship, service, and professional and scholarly development.

Exercise Science & Outdoor Recreation

Program Coordinators:

- **Exercise Science:** Michael Bohne
- **Office:** BL 147k
- **Telephone:** 801-863-8439
- **Email:** Michael.Bohne@uvu.edu
- **Mail Stop:** 238
- **Outdoor Recreation:** Betsy Lindley
- **Office:** PE 147g
- **Telephone:** 801-863-6094
- **Email:** lindlebe@uvu.edu
- **Physical Education Teacher Education:** Shaunna McGhie
- **Office:** PE 147m

- **Telephone:** 801-863-8663
- **Email:** shaunna.mcghie@uvu.edu
- **Advisor:** Kristine Farnsworth
- **Office:** PE 147A
- **Telephone:** 801-863-7508
- **Email:** famswkr@uvu.edu

Programs

The Department of Exercise Science and Outdoor Recreation offers two 4-year degrees. One offers a BA or BS in Exercise Science and Outdoor Recreation with a choice of emphasis in Exercise Science or Outdoor Recreation. Students completing the Exercise Science emphasis will be qualified for several different graduate schools and a variety of jobs including fitness and health promotion, exercise testing, corporate wellness, clinical exercise physiology, cardiac rehab, etc. This major could also lead to acceptance into medical, dental, physical therapy and other professional or graduate schools.

The Exercise Science curriculum has been designed to address student needs and market demands. Students have the opportunity to practice and understand what they learn in the classroom. Our Biomechanics and Human Performance Laboratories contain state-of-the-art equipment used for lab classes and student research projects. Our equipment includes Biodex Balance System SD and a Biodex System 4, Vicon motion analysis with 12 cameras and 3 force plates, Bod Pod, 16 channel wireless EMG system, treadmills, cycle ergometers, metabolic carts, and other equipment to facilitate labs and research projects.

Students completing the Outdoor Recreation emphasis are qualified to become park interpreters, resort recreation directors, corporate recreation managers, or community recreation directors. Supported by a strong background in recreation theory, with courses like Outdoor Leadership and Recreation Risk Management, students also choose from a variety of land and water-based skills courses, including park management, program planning, backpacking, mountain biking, avalanche awareness, canoeing, and whitewater kayaking. More than a career, a major in Outdoor Recreation teaches leadership for life because graduates exit the program with enhanced personal responsibility and ability to overcome barriers.

The second Bachelor degree is the Physical Education Teacher Education (PETE) degree.

Graduates from the UVU Physical Education K-12 Teacher Education (PETE) program will be specifically qualified to teach developmentally appropriate physical education to the increasingly diverse population of students in the K-12 schools in the State of Utah. Their preparation will help meet the anticipated demands for quality elementary, as well as secondary, physical educators in the twenty-first century. Successful completion of this program leads to Licensure in the State of Utah.

The department also offers a minor in Exercise Science and Outdoor Recreation which can be combined with other college-wide bachelor degrees. The minor provides students with a broad academic knowledge of the foundational and scientific principles in the field of Exercise Science and can lead to careers in the fitness industry.

DEPARTMENT CHAIR

BOHNE, Michael Professor

FACULTY

BOHNE, Michael Professor

BOYER, Bret Associate Professor

CICCONE, Anthony B. Assistant Professor

CREER, Andrew Associate Professor

DRAPER, Shane N. Assistant Professor

JENSEN, Ellis B. Associate Professor

LINDLEY, Betsy Associate Professor

MCGHIE, Shaunna Professor

MINER, M. Vinson Professor

NAMANNY, Steven Instructor

SAWYER, Robert Associate Professor

STANDIFIRD, Tyler Assistant Professor

WHEATLEY, Laura Lecturer

WILLIAMS, Scott Associate Professor

Course Descriptions

Exercise Science.....	700
Physical Education Sports.....	772
Physical Education Teacher Ed.....	775
Recreation.....	795

Degrees & Programs

Exercise Science and Outdoor Recreation, A.A.

Requirements

Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry.

Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	

and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology ¹		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			16 Credits
	EXSC 270G	Foundations of Exercise Science	3
Complete 13 credits from the following:			13
	CHEM 1110	Elementary Chemistry for the Health Sciences (4.0)	
	ZOOL 2320	Human Anatomy (3.0)	
and	ZOOL 2325	Human Anatomy Laboratory (1.0)	
	ZOOL 2420	Human Physiology (3.0)	
and	ZOOL 2425	Human Physiology Laboratory (1.0)	
	STAT 2040	Principles of Statistics (4.0)	
	EXSC 2500	Sports Medicine (3.0)	
Any EXSC or PETE courses approved by department (maximum of 2 hours)			
Elective Requirements:			9 Credits
	Same Foreign Language		8
	Any 1000-level course or higher		1

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

1-ZOOL 1090 strongly recommended

Exercise Science and Outdoor Recreation, A.A. Careers

Careers:
Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry.

Exercise Science and Outdoor Recreation

Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation, A.S.

Requirements

Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry.

Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology ¹		3
Physical Science		3
Additional Biology or Physical Science (ZOO 2320 and ZOO 2325 strongly recommended)		3
Humanities Distribution		3

Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits
EXSC 270G	Foundations of Exercise Science	3
Complete 13 credits from the following:		13
CHEM 1110	Elementary Chemistry for the Health Sciences (4.0)	
ZOOL 2320	Human Anatomy (3.0)	
and ZOOL 2325	Human Anatomy Laboratory (1.0)	
ZOOL 2420	Human Physiology (3.0)	
and ZOOL 2425	Human Physiology Laboratory (1.0)	
STAT 2040	Principles of Statistics (4.0)	
EXSC 2500	Sports Medicine (3.0)	
Any EXSC or PETE courses approved by department (maximum of 2 hours may be applied to graduation)		
Elective Requirements:		9 Credits
Complete any 1000-level or higher		9

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote

1-ZOOL 1090 strongly recommended

Exercise Science and Outdoor Recreation, A.S. Careers

Careers:

Students who complete an Associate's Degree in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry. Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation, Minor

Requirements

In the Exercise Science and Outdoor Recreation Minor students complete courses in Anatomy, Physiology, Sport Medicine, Exercise Testing and Prescription, and Exercise Physiology. The program is designed to prepare students for employment at the entry level in health and fitness related occupations as well as for higher education.

Total Program Credits: 19

Exercise Science and Outdoor Recreation

Discipline Core Requirements:		19 Credits
EXSC 270G	Foundations of Exercise Science	3
EXSC 2500	Sports Medicine	3
EXSC 2510	Sports Medicine Lab	1
EXSC 3270	Exercise Testing and Prescription	3
EXSC 3700	Exercise Physiology	3
EXSC 3705	Exercise Physiology Laboratory	1
Choose two of the following:		5
EXSC 3500	Kinesiology (3.0)	
EXSC 3750	Psychosocial Aspects of Human Performance (2.0)	
EXSC 3550	Motor Learning and Control (3.0)	
EXSC 4000	Clinical Exercise Physiology (3.0)	
EXSC 4100	Fitness Across the Lifespan (3.0)	
EXSC 4550	Principles of Strength and Conditioning (3.0)	

Exercise Science and Outdoor Recreation, Minor Careers

Careers:	
Students who complete a Minor in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry. Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.	

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Outdoor Recreation, Minor

Requirements

In the Exercise Science and Outdoor Recreation Minor students complete courses in Anatomy, Physiology, Sport Medicine, Exercise Testing and Prescription, and Exercise Physiology. The program is designed to prepare students for employment at the entry level in health and fitness related occupations as well as for higher education.

Total Program Credits: 20

Matriculation Requirements:		20 Credits
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		20 Credits
REC 1535	Backpacking	1
REC 2200	Foundations of Recreation	3
REC 2400	Principles of Experiential Education in Recreation	3
REC 3100	Recreation Program Planning	3
REC 3400	Risk Management	3
Complete 1 credit from the the following:		1
REC 1500	Canoeing I (1.0)	
REC 1527	Rock Climbing I (1.0)	
REC 1550	Mountain Biking (1.0)	

Complete 6 credits from the following:		6
REC 1580	Kayak Touring(1.0)	
REC 3200	Inclusive Recreation (3.0)	
REC 3500	Recreation Administration (3.0)	
REC 3700	Natural Resource Interpretation (3.0)	
REC 385G	Ethical Concerns in Recreation (3.0)	
REC 4000	Outdoor Leadership (4.0)	
REC 4400	Natural Resource and Protected Area Management (3.0)	
REC 4500	Wildland Recreation Behavior (3.0)	

Outdoor Recreation, Minor Careers

Careers:	
Students who complete a Minor in Exercise Science and Outdoor Recreation have received the basic knowledge necessary to continue their education in a Bachelor's Program or pursue employment in the Fitness industry. Possible positions might include personal trainers, group fitness instructors, fitness coordinators, sport coaches or other entry level positions in a recreational or clinical setting.	

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.A.

Requirements

The Exercise Science curriculum has been designed to address student needs and current market demands. Through practical experiences in laboratory settings using state of the art equipment such as the Biodex S4, students are exposed to real life rehabilitation experiences as well as researching functional abilities and performance aspects of collegiate athletes. Additional classroom and lab experiences allow students to conduct 3-D motion analysis, measure muscle activity using wireless EMG technology, and analyze gait patterns using the GaitRite System, as well as conducting assessments to determine maximum oxygen uptake (VO₂ Max), body composition, and anaerobic power.

Total Program Credits: 120

General Education Requirements:		37 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
MATH 1050	College Algebra	4
or MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	

Exercise Science and Outdoor Recreation

Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1010	General Biology	3
Physical Science		3
ZOOL 1090	Introduction to Human Anatomy and Physiology	3
Humanities Distribution (any foreign language 202G/2020 course)		4
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits
EXSC 3500	Kinesiology	3
EXSC 3550	Motor Learning and Control	3
EXSC 3750	Psychosocial Aspects of Human Performance	2
EXSC 3270	Exercise Testing and Prescription (3.0)	
or REC 385G	Ethical Concerns in Recreation	3
EXSC 4300	Research Methods in Exercise Science and Outdoor Recreation	3
EXSC 4950	Senior Seminar (2.0)	
or REC 4950	Senior Seminar	2
Elective Requirements:		15 Credits
Complete 12 credit hours of course work from one language to include the 1010, 1020, and 2010 levels (202G/2020 level completed in GE requirements).		12
Any 1000-level course of higher		3
Emphasis Requirements:		46 Credits
CHEM 1110	Elementary Chemistry for the Health Sciences	4
or CHEM 1210	Principles of Chemistry I (4.0)	
ZOOL 2320	Human Anatomy	3
and ZOOL 2325	Human Anatomy Laboratory	1
ZOOL 2420	Human Physiology	3
and ZOOL 2425	Human Physiology Laboratory	1
EXSC 2500	Sports Medicine	3
EXSC 270G	Foundations of Exercise Science	3
EXSC 3700	Exercise Physiology	3
and EXSC 3705	Exercise Physiology Laboratory	1
EXSC 3730	Biomechanics	3
EXSC 3850	Ethical Concerns in Exercise Science	3
STAT 2040	Principles of Statistics	4
or BESC 3010	Statistics for the Behavioral Sciences (4.0)	
or EXSC 3400	Statistical Analysis in Exercise Science (3.0)	
Choose 14 credits from the following (make sure selections will satisfy the requirements for upper-division course work):		14
EXSC 4000	Clinical Exercise Physiology (3.0)	
EXSC 4050	Obesity Physiology and Physical Activity (3.0)	
EXSC 4100	Fitness Across the Lifespan (3.0)	

EXSC 4200	Exercise Metabolism (3.0)	
EXSC 4400	Physical Activity Promotion in the Community (3.0)	
and EXSC 4410	Promoting Physical Activity in the Community Field Experience (1.0)	
EXSC 4500	Advanced Sports Nutrition (3.0)	
EXSC 4550	Principles of Strength and Conditioning (3.0)	
EXSC 4600	Advanced Biomechanics (3.0)	
EXSC 4700	Advanced Gross Motor Assessment (3.0)	
CHEM 1220	Principles of Chemistry II (4.0)	
PHYS 2020	College Physics II (4.0)	
ZOOL 4400	Pathophysiology (4.0)	
ZOOL 4700	Advanced Anatomy (4.0)	
PSY 3400	Abnormal Psychology (3.0)	
Emphasis Elective Requirements:		6 Credits
Any course 1000-level or higher		6

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grades below C- in Discipline Core or Emphasis Courses.
7. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.A.

Careers

Careers:

Students completing the Exercise Science Concentration will be qualified for several different graduate school programs and a variety of careers including fitness and health promotion, exercise testing, strength and conditioning, corporate wellness, clinical exercise physiology, cardiac rehab, etc. This major can also lead to acceptance into medical, dental, physical or occupational therapy and other graduate or professional schools.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.S.

Requirements

The Exercise Science curriculum has been designed to address student needs and current market demands. Through practical experiences in laboratory settings using state of the art equipment such as the Biodex S4, students are exposed to real life rehabilitation experiences as well as researching functional abilities and performance aspects of collegiate athletes. Additional classroom and lab experiences allow students to conduct 3-D motion analysis, measure muscle activity using wireless EMG

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technology, and analyze gait patterns using the GaitRite System, as well as conducting assessments to determine maximum oxygen uptake (VO₂ Max), body composition, and anaerobic power.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
MATH 1050	College Algebra	4
or MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
or HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1010	General Biology	3
Physical Science		3
ZOOL 1090	Introduction to Human Anatomy and Physiology	3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits
EXSC 3500	Kinesiology	3
EXSC 3550	Motor Learning and Control	3
EXSC 3750	Psychosocial Aspects of Human Performance	2
EXSC 3270	Exercise Testing and Prescription (3.0)	
or REC 385G	Ethical Concerns in Recreation	3
EXSC 4300	Research Methods in Exercise Science and Outdoor Recreation	3
EXSC 4950	Senior Seminar (2.0)	
or REC 4950	Senior Seminar	2
Elective Requirements:		15 Credits
Any 1000 level or higher		15
Emphasis Requirements:		46 Credits
CHEM 1110	Elementary Chemistry for the Health Sciences	4
CHEM 1210	Principles of Chemistry I (4.0)	
ZOOL 2320	Human Anatomy	3
ZOOL 2325	Human Anatomy Laboratory	1
ZOOL 2420	Human Physiology	3

ZOOL 2425	Human Physiology Laboratory	1
EXSC 2500	Sports Medicine	3
EXSC 270G	Foundations of Exercise Science	3
EXSC 3700	Exercise Physiology	3
EXSC 3705	Exercise Physiology Laboratory	1
EXSC 3730	Biomechanics	3
EXSC 3850	Ethical Concerns in Exercise Science	3
STAT 2040	Principles of Statistics	4
BESC 3010	Statistics for the Behavioral Sciences (4.0)	
EXSC 3400	Statistical Analysis in Exercise Science (3.0)	
Choose 14 credits from the following (make sure selections will satisfy the requirements for upper-division course work):		14
EXSC 4000	Clinical Exercise Physiology (3.0)	
EXSC 4050	Obesity Physiology and Physical Activity (3.0)	
EXSC 4100	Fitness Across the Lifespan (3.0)	
EXSC 4200	Exercise Metabolism (3.0)	
EXSC 4400	Physical Activity Promotion in the Community (3.0)	
and EXSC 4410	Promoting Physical Activity in the Community Field Experience (1.0)	
EXSC 4550	Principles of Strength and Conditioning (3.0)	
EXSC 4500	Advanced Sports Nutrition (3.0)	
EXSC 4600	Advanced Biomechanics (3.0)	
EXSC 4700	Advanced Gross Motor Assessment (3.0)	
CHEM 1220	Principles of Chemistry II (4.0)	
PHYS 2020	College Physics II (4.0)	
ZOOL 4400	Pathophysiology (4.0)	
ZOOL 4700	Advanced Anatomy (4.0)	
PSY 3400	Abnormal Psychology (3.0)	
Emphasis Elective Requirements:		7 Credits
Any courses 1000-level or higher		7

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grades below C- in Discipline Core or Emphasis Courses.
6. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Exercise Science Emphasis, B.S.

Careers

Careers:

Students completing the Exercise Science Concentration will be qualified for several different graduate school programs and a variety of careers including fitness and health promotion, exercise testing, strength and conditioning, corporate wellness, clinical exercise physiology, cardiac rehab, etc. This major can also lead to

Exercise Science and Outdoor Recreation

acceptance into medical, dental, physical or occupational therapy and other graduate or professional schools.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation - Outdoor Recreation Management Emphasis, B.A.

Requirements

In addition to a strong background in recreation theory, experiential education, outdoor leadership, risk management and program planning, graduates of this program leave with a proficiency in a variety of both land and water-based skill acquisition courses, such as avalanche awareness, whitewater kayaking and backpacking. More than preparation for a career in the outdoor field, the major in Outdoor Recreation Management grooms students for a lifetime of outdoor participation and leadership.

Total Program Credits: 121

General Education Requirements:		37 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
MATH 1050	College Algebra	4
or MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1010	General Biology	3
Physical Science		3
ZOOL 1090	Introduction to Human Anatomy and Physiology	3
Humanities Distribution (any foreign language 202G/2020 course)		4
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits
EXSC 3500	Kinesiology	3
EXSC 3550	Motor Learning and Control	3

EXSC 3750	Psychosocial Aspects of Human Performance	2
EXSC 3270	Exercise Testing and Prescription (3.0)	
or REC 385G	Ethical Concerns in Recreation	3
EXSC 4300	Research Methods in Exercise Science and Outdoor Recreation	3
EXSC 4950	Senior Seminar (2.0)	
or REC 4950	Senior Seminar	2
Elective Requirements:		15 Credits
Complete 12 credit hours of course work from one language to include the 1010, 1020, and 2010 levels (202G/2020 level completed in GE requirements).		12
Any 1000-level course of higher		3
Emphasis Requirements:		53 Credits
ENTR 3170	Entrepreneurship	3
or ENTR 3180	Small Business Development (3.0)	
or MGMT 3210	Convention and Events Management (3.0)	
or ENGL 3320	Grant and Proposal Writing (3.0)	
or BIOL 3800	Conservation Biology (3.0)	
REC 1535	Backpacking	1
REC 1542	Wilderness First Responder	2
REC 1500	Canoeing I	1
or REC 1580	Kayak Touring (1.0)	
REC 1600	Winter Exploration	1
REC 2200	Foundations of Recreation	3
REC 2400	Principles of Experiential Education in Recreation	3
REC 2600	Principles of Outdoor and Adventure Education	3
REC 2700	Leave No Trace Trainer	1
REC 3100	Recreation Program Planning	3
REC 3200	Inclusive Recreation	3
REC 3300	Wilderness Skills	1
REC 3400	Risk Management	3
REC 3500	Recreation Administration	3
REC 4400	Natural Resource and Protected Area Management	3
REC 420R	Outdoor Leadership and Management Practicum	2
REC 4800	Professional Preparation in Recreation	1
REC 481R	Senior Internship	8
Complete 2 credits from the following:		2
REC 1516	Ropes Course and Teambuilding (1.0)	
REC 1525	Mountaineering (1.0)	
REC 1527	Rock Climbing I (1.0)	
REC 1550	Mountain Biking (1.0)	
REC 1505	Whitewater Kayaking I (1.0)	
Complete 6 credits from the following:		6
REC 2450	Rock Climbing Site Management and Facilitation (3.0)	
or REC 2650	Principles of Challenge Education (3.0)	
or REC 2750	Principles of Water-Based Adventure Education (3.0)	

REC 3700	Natural Resource Interpretation (3.0)
REC 4000	Outdoor Leadership (4.0)
REC 4500	Wildland Recreation Behavior (3.0)

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. No grades below C- in Discipline Core or Emphasis Courses.
7. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Outdoor Recreation Management Emphasis, B.A. Careers

Careers:
Students completing the Outdoor Recreation Management emphasis are prepared for positions in all areas of the outdoor industry, including public and commercial recreation, wilderness therapy programs, guide services, state parks, federal land management agencies, and the Forestry Service.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Exercise Science and Outdoor Recreation - Outdoor Recreation Management Emphasis, B.S.

Requirements

In addition to a strong background in recreation theory, experiential education, outdoor leadership, risk management and program planning, graduates of this program leave with a proficiency in a variety of both land and water-based skill acquisition courses, such as avalanche awareness, whitewater kayaking and backpacking. More than preparation for a career in the outdoor field, the major in Outdoor Recreation Management grooms students for a lifetime of outdoor participation and leadership.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
MATH 1050	College Algebra	4
or MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
or HIST 2710	US History since 1877 (3.0)	

HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
BIOL 1010	General Biology	3
Physical Science		3
ZOOL 1090	Introduction to Human Anatomy and Physiology	3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits
EXSC 3500	Kinesiology	3
EXSC 3550	Motor Learning and Control	3
EXSC 3750	Psychosocial Aspects of Human Performance	2
EXSC 3270	Exercise Testing and Prescription (3.0)	
or REC 385G	Ethical Concerns in Recreation	3
EXSC 4300	Research Methods in Exercise Science and Outdoor Recreation	3
EXSC 4950	Senior Seminar (2.0)	
or REC 4950	Senior Seminar	2
Elective Requirements:		15 Credits
Any 1000 level or higher		15
Emphasis Requirements:		53 Credits
ENTR 3170	Entrepreneurship	3
or ENTR 3180	Small Business Development (3.0)	
or MGMT 3210	Convention and Events Management (3.0)	
or ENGL 3320	Grant and Proposal Writing (3.0)	
or BIOL 3800	Conservation Biology (3.0)	
REC 1500	Canoeing I	1
or REC 1580	Kayak Touring (1.0)	
REC 1542	Wilderness First Responder	2
REC 1600	Winter Exploration	1
REC 1535	Backpacking	1
REC 2200	Foundations of Recreation	3
REC 2400	Principles of Experiential Education in Recreation	3
REC 2600	Principles of Outdoor and Adventure Education	3
REC 2700	Leave No Trace Trainer	1
REC 3100	Recreation Program Planning	3
REC 3200	Inclusive Recreation	3
REC 3300	Wilderness Skills	1

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	REC 3400	Risk Management	3
	REC 3500	Recreation Administration	3
	REC 420R	Outdoor Leadership and Management Practicum	2
	REC 4400	Natural Resource and Protected Area Management	3
	REC 4800	Professional Preparation in Recreation	1
	REC 481R	Senior Internship	8
Complete 2 credits from the following:			2
	REC 1516	Ropes Course and Teambuilding (1.0)	
	REC 1525	Mountaineering (1.0)	
	REC 1527	Rock Climbing I (1.0)	
	REC 1550	Mountain Biking (1.0)	
	REC 1505	Whitewater Kayaking I (1.0)	
Complete 6 credits from the following:			6
	REC 2450	Rock Climbing Site Management and Facilitation (3.0)	
or	REC 2650	Principles of Challenge Education (3.0)	
or	REC 2750	Principles of Water-Based Adventure Education (3.0)	
	REC 3700	Natural Resource Interpretation (3.0)	
	REC 4000	Outdoor Leadership (4.0)	
	REC 4500	Wildland Recreation Behavior (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. No grades below C- in Discipline Core or Emphasis Courses.
6. Successful completion of at least one Global/Intercultural course.

Note: Students must obtain the departmental advisor's signature on an approved program plan prior to enrollment in their second semester of study.

Exercise Science and Outdoor Recreation - Outdoor Recreation Management Emphasis, B.S. Careers

Careers:
Students completing the Outdoor Recreation Management emphasis are prepared for positions in all areas of the outdoor industry, including public and commercial recreation, wilderness therapy programs, guide services, state parks, federal land management agencies, and the Forestry Service.

Related Careers

- Recreation and Fitness Studies Teachers, Postsecondary
- Athletes and Sports Competitors
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Physical Education Teacher Education, B.S.

Requirements

Graduates from the Physical Education K-12 Teacher Education (PETE) program will be prepared to meet all standards for Utah licensure for K-12 Physical Education. They should also be prepared to meet most standards for certification in the rest of the 49 states, since the National Initial Physical Education Teacher Education Standards have been used to develop, assess, and update the program on an annual basis. The focus of this program is on enhancing student outcomes – both for university students and for their future students. Outcomes that should be met by the end of the program include scientific and theoretical knowledge, skill and fitness based competency, planning and implementation, instructional delivery and management, impact on student learning, and professionalism. PETE majors learn to individualize instruction to enhance learning for all students, regardless of their abilities.

Total Program Credits: 120

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Acceptance to the Secondary Education Program, which include the following requirements: (1) ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement. (2) GPA of 3.0 or higher with no grade lower than a C in content area courses. (3) Completion of all General Education requirements and the majority of content area courses. (4) Pass group interview directed by the Secondary Teacher Education Department. (5) Pass LiveScan Criminal Background Check. 2. Complete PETE 3100 with a grade of C or better. 3. Swimming requirement: Current Red Cross WSI or Lifesaving Certification OR pass the swim test to demonstrate minimum water safety techniques. The swim test has two parts: (1) 50 yard swim and (2) drown proofing session. The 50 yard swim must be completed in under 2 minutes and the swimmer must use the Freestyle stroke (front crawl with the head above or below the water) for the first 25 yards and then can use their choice of stroke for the remaining 25 yards. All must be completed without touching the bottom or the side of the pool or lane rope and without assistance. The drown proofing test is a 5 minute session in deep water (>12 feet) where the student must float, tread water, or bob without touching the side of the pool or receiving assistance. Modifications may be made for students with documented disabilities or other contributing factors. 4. Fitness requirement: Students must achieve and maintain a health-enhancing level of fitness. Standards will be set according to expert guidelines that take into effect age, gender, disability, and other contributing factors. 			
General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1010	General Biology	3

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or	BIOL 1610	College Biology I (4.0)	
	Physical Science (CHEM 1010 or CHEM 1110 recommended)		3
	ZOOL 1090	Introduction to Human Anatomy and Physiology	3
or	ZOOL 2320	Human Anatomy (3.0)	
and	ZOOL 2325	Human Anatomy Laboratory (1.0)	
and	ZOOL 2420	Human Physiology (3.0)	
and	ZOOL 2425	Human Physiology Laboratory (1.0)	
	Humanities Distribution (COMM 1020 recommended)		3
	Fine Arts Distribution		3
	Social/Behavioral Science (PSY 1100 recommended)		3
Discipline Core Requirements:			84 Credits
	HLTH 1200	First Aid	2
	NUTR 1020	Foundations of Human Nutrition	3
	DANC 3400	Dance in the Elementary School (or a dance course approved by PETE coordinator)	2
	EXSC 3500	Kinesiology	3
	EXSC 3550	Motor Learning and Control	3
	EXSC 3700	Exercise Physiology	3
	EXSC 3705	Exercise Physiology Laboratory	1
	EXSC 3750	Psychosocial Aspects of Human Performance	2
	PETE 2110	Elementary Motor Skill Analysis and Performance	1
	PETE 2120	Fitness for Secondary Physical Educators	1
	PETE 2210	Racket Sport Analysis and Teaching Progressions	1
	PETE 2220	Target Sport Analysis and Teaching Progressions	1
	PETE 2230	Individual Sports: Track and Field and Tumbling	1
	PETE 2310	Invasion Sports: Soccer and Team Handball	1
	PETE 2320	Teaching and Analyzing Basketball and Volleyball	1
	PETE 2330	Team Sports for the Physical Educator	1
	PETE 2700	Foundations of Physical Education K-12 Teacher Education	3
	PETE 3100	Physical Education Pedagogy	3
	PETE 3450	Special Populations in Physical Education	3
	PETE 4200	Methods of Teaching Elementary Physical Education	3
	PETE 4210	Elementary Physical Education Field Experience	1
	PETE 4250	Methods of Teaching Secondary Physical Education	3
	PETE 4260	Secondary Physical Education Field Experience	1
	PETE 4400	Assessment in Physical Education	3
	PETE 4900	Student Teaching Seminar for Physical Education	1
	Additional 4 credits of any courses		4
Secondary Education Courses:			

EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
EDSP 3400	Exceptional Students	2

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with 40 semester credits from 3000 and 4000 level courses.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Physical Education Teacher Education, B.S. Careers

Careers:

Successful completion of the Physical Education Teacher Education degree leads to Licensure in the State of Utah. Graduates from the PETE program will be specifically qualified to teach physical education to the increasingly diverse population of students in K-12 schools in the State of Utah. Their preparation will help meet the anticipated demands for elementary, as well as secondary physical educators in the twenty-first century. Many graduates from the PETE Program also coach at their respective schools.

Related Careers

- Education Teachers, Postsecondary
- Recreation and Fitness Studies Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education
- Coaches and Scouts
- Fitness Trainers and Aerobics Instructors

Extended Studies

Name:	Extended Studies
Location:	EE 125
Telephone:	801-863-8449
Email:	extend@uvu.edu
Web Address:	uvu.edu/extend
Interim Director:	Ruth Gowans

Interim Director: Ruth Gowans

- **Office:** EE 125d
- **Telephone:** 801-863-6216
- **Email:** gowansru@uvu.edu

Academic Advisor: Sam Cardenas

- **Office:** LC 402Q
- **Telephone:** 801-863-6945
- **Email:** cardensa@uvu.edu

The Office of Extended Studies coordinates and supports academic educational opportunities for students at non-traditional times and at various locations on and off the main campus. Current locations are:

- Weekend College
- UVU North (Lehi and Saratoga Springs)
- UVU South (Spanish Fork, Springville, Santaquin)
- UVU West @ National Guard Building
- Wasatch Campus

Extended Studies strives to continually improve educational opportunities and services to meet student needs by initiating new programs, providing student and faculty services and initiating opportunities for flexible learning experiences. Many programs are available to students interested in earning a degree, increasing job skills necessary for career advancement, or for personal enrichment.

Weekend College

Coordinator: Joy Brown

- **Office:** LA 101b
- **Telephone:** 801-863-8432
- **Email:** brownjy@uvu.edu

Over 2000 students are pursuing their degree at UVU by taking classes through the Weekend College Program. The Weekend College program serves a diverse population that includes adult, part-time and traditional students. More than 115 courses are taught on Friday evenings and Saturdays on the UVU Orem Campus during fall and spring semesters. Classes are scheduled at three times on Saturday allowing students to take classes back to back. During the 10-week summer block, over 50 classes are available.

Courses needed for General Education are offered as well as many upper division courses. The Office of Extended Studies has partnered with several academic departments on campus in facilitating classes necessary for Associate and Bachelor degree programs. These courses are offered in the late afternoon, evenings, online, and at Weekend College in a structured two or three year sequence.

The Weekend College program is characterized by smaller classes, quiet surroundings, excellent faculty and personal interaction among instructors and students. Weekend College staff is available to assist instructors and students while classes are in session.

Academic Programs and Degrees

- Accounting
- Art and Visual Communication
- Behavioral Science
- Business Management

- Communication
- Computer Science
- Criminal Justice
- English
- History
- Information Technology
- Legal Studies
- Political Science
- Public and Community Health
- Technology Management
- University Studies

Student Services Available on Saturdays

- Academic Advising and Counseling
- Bookstore
 - Campus Connection
 - Computer Labs
 - Dining Services
- Fulton Library
- Math Lab
- Testing Services
- Writing Lab

UVU North

Coordinator: Sarah Jensen

- **Office:** EE 125a
- **Telephone:** 801-863-5447
- **Email:** SarahJ@uvu.edu

UVU courses are located in the Mountainland Applied Technology College (MATC) Building at Thanksgiving Point (2301 W. Ashton Blvd. Lehi, Utah) and at Westlake High School (99 North Thunder Blvd in Saratoga Springs, Utah).

Day and evening courses are offered to students who need to complete their 1000 and 2000 level General Education requirements and fulfill the coursework necessary for an Associate Degree.

Over 500 students taking classes at UVU North are closer to home, spend less time traveling and can avoid traffic congestion trying to get to classes on campus in Orem. Classes are smaller allowing for personal contact with instructors. A facilitator is available to assist faculty and students while classes are in session.

Academic Programs and Degrees

- Behavioral Science
- Business Management
- University Studies (General Studies)

Student Services Available

- Academic Advising and Counseling (Sam Cardenas)
- UVU Math and Science Tutors

UVU South

Coordinator: Vicki Utley

- **Office:** EE 125b
- **Telephone:** 801-863-6225
- **Email:** utleyvi@uvu.edu

Over 500 students are meeting their academic needs by taking classes in the south end of Utah County at Spanish Fork High (99 N. 300 W., Spanish Fork, Utah), Nebo Advanced Learning Center (570 S Main, Springville, Utah), and Santaquin City Hall (275 W Main, Santaquin, Utah).

Day and evening courses are offered to students who need to complete their 1000 and 2000 level General Education requirements and fulfill the coursework necessary for an Associate Degree.

Students taking classes at UVU South are closer to home, spend less time traveling, and can avoid traffic congestion trying to get to classes on campus in Orem. Smaller classes allow for personal contact with instructors. A facilitator is available to assist faculty and students while classes are in session.

Academic Programs and Degrees

- Behavioral Science
- Business Management
- University Studies (General Studies)

Student Services Available

- Academic Advising and Counseling (Sam Cardenas)
- UVU Math and Science Tutors

UVU West at the National Guard Building

Coordinator: Vicki Utley

- **Office:** EE 125b
- **Telephone:** 801-863-6225
- **Email:** utleyvi@uvu.edu

UVU West is located west of the UVU Orem Campus across the I-15 Freeway. Both day and evening courses are offered to students at the National Guard Building located at 951 S. Geneva Road.

UVU West is a multi-functional facility with nine enhanced classrooms, a computer lab, and an auditorium where UVU credit and non-credit courses are offered. Interior Design, Nursing, and Public and Community Health courses are also offered at UVU West. UVU West staff is available to assist instructors and students while classes are in session.

More than 40 courses are offered for fall and spring semesters to students who need to complete their General Education requirements. Day and evening classes are also offered both blocks of summer semester.

The Front Runner stops with walking distance of UVU West. In addition the UTA Bus (route 830) travels to and from the main UVU campus and UVU West every 15 minutes throughout the day and evening hours. Vehicle parking is located 100 feet south of the building.

Academic Programs and Degrees

- Interior Design
- Nursing
- Public and Community Health
- University Studies (General Studies)

Wasatch Campus

- **Mailing Address:**

3111 N. College Way

Highway 40

Heber City, Utah 84032

- **Telephone:** 435-654-6482 or 801-863-6601
- **Web Address:** uvu.edu/wasatch

Campus Administrator: Thomas Melville

- **Telephone:** 801-863-6648
- **Email:** Thomas.Melville@uvu.edu

Assistant Campus Administrator: Michael Walker

- **Telephone:** 801-863-6608
- **Email:** mwalker@uvu.edu

UVU Wasatch Campus is located in Wasatch County between Park City and Heber City, Utah, approximately 30 miles from the Orem Campus. Wasatch Campus is for those who appreciate smaller classes and excellent faculty and staff who are committed to individual academic support and attention.

More than 65 classes are offered to over 400 students who attend Wasatch Campus during fall and spring semesters. First and second block courses are also offered at Wasatch Campus during summer semester. Wasatch Campus staff is available to assist instructors and students every day of the week.

Academic Programs and Degrees

- Behavioral Science
- Business Management
- Elementary Education
- University Studies (General Studies)

Student Services

- Academic Advising and Counseling
- Admissions, Registration and Cashiering Services
- Bookstore
- Career Assessment and Counseling
- Fulton Library
- Scoops (Grill)
- Student Life Activities
- Testing and Assessment Services

Finance and Economics

Name:	Finances & Economics
Location:	WB 203
Telephone:	801-863-8807
Email:	walkerli@uvu.edu
Web Address:	uvu.edu/woodbury/finance-economics
Chair:	Lowell M. Glenn

Mission Statement

The department offers three bachelor degree programs in Economics, Finance, and Personal Financial Planning (PFP). Graduates in economics find employment in a variety of public and private institutions while many go on to graduate education in economics, law, public policy, an MBA and other disciplines. Finance major's move on to careers in corporate financial management, as investment managers and analysts, in banking and other careers in the finance industry. Faculty in the department have been remarkably successful in supporting students taking the financial industry's most sophisticated accreditation exam, the Chartered Financial Analyst (CFA), first level that is available to seniors at the university level. The business world is more competitive today than in past generations. Decision makers understand the increasing importance of getting things right the first time using business models and measurement methods to make business and policy decisions.

The PFP program is designed to prepare students for professional careers as fee-for-service certified financial planners. Unlike the other two degrees that offer Bachelor of Arts and Sciences as well as minors and emphases in integrated studies, the PFP program is restricted to a single bachelor of science degree. Students who complete the PFP degree will in many respects emulate the careers of accountants who work with individuals and organizations in the management of wealth, personal resources, and provide other professional functions. The PFP Program is registered with the Certified Financial Planner (CFP®) Board of Standards, Inc. The classes taught in the Department of Finance and Economics are designed to give students the background they need to make professional business decisions. The department also offers an online group of courses in cooperation with Dalton Education that meet the CFP® educational requirements for practicing professionals in the financial industry to sit for the accreditation examination. Finally, the department offers a post-bachelor Certificate in PFP which again has been registered with the CFP® Board to meet education requirements to qualify to take the professional accreditation exam.

Experienced faculty work with students in understanding the theory of their discipline and then demonstrate how to apply that theory in the pragmatic application of those principles in financial management, economics, statistics, and other business courses critical to their professional development.

Finance & Economics

Job Outlook

The need for economic and financial decision makers is increasing at all levels of business and government. Job demand is high, particularly in larger metropolitan areas, and the employment outlook is excellent. Those trained in finance and economics who also have competence in information analysis can enter fields such as fund management, energy, securities, securities market regulation, or government financial management. Those with foreign language capabilities may also have access to employment in international business, international finance, import/export, and securities operations. The PFP program gives graduates an opportunity to both work for themselves in the capacity of an individual planner as well as to obtain employment in other organizations as they provide needed services to clients.

Programs

As noted earlier, students interested in finance and economics may receive a Bachelor of Science Degree (BS) or Bachelor of Arts (BA) in Economics or Finance. There are also Minors in both Economics and Finance as well as an emphasis in Integrated Studies in both the Economics and Finance disciplines. However, the PFP program only

offers a Bachelor of Science (BS) degree with a variety of courses designed to prepare students to take certification exams offered by national financial planning associations.

Woodbury School of Business

Advisement Center:

- **Office:** WB 257
- **Telephone:** 801-863-8032

Dean: Norman S. Wright

- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu

DEPARTMENT CHAIR

GLENN, Lowell M. *Associate Professor*

FACULTY

ALLEN, Kyle *Assistant Professor*

ARMSTRONG, Vaughn S. *Associate Professor*

BI, Rachel *Assistant Professor*

CHAN, Leo *Associate Professor*

COX, Vaughn *Professional in Residence*

DEAN, Lukas Ray *Associate Professor*

GLENN, Lowell M. *Associate Professor*

KIA, Amir *Professor*

LAW, Ryan *Professional In Residence*

MARTIN, Terrance K. *Assistant Professor*

RICALDI, Laura *Assistant Professor*

ROSSI DE OLIVEIRA, Andre *Associate Professor*

SAMAD, Abdus *Professor*

SMITH, Hyrum *Assistant Professor*

SOTOMAYOR, Maritza *Associate Professor*

STRATTON, Scott *Lecturer*

SUN, Xu (Kiera) *Assistant Professor*

WASDEN, Cary D. *Professional in Residence*

Course Descriptions

Economics.....	660
Finance.....	704
Business Management.....	753

Degrees & Programs

Financial Planning, Certificate of Proficiency

Requirements

This certificate adds to the Woodbury School of Business flexibility to meet the needs of individuals seeking to complete the educational requirement to sit for the Certified Financial Planning Board's professional accreditation. It provides the required seven courses in a residential setting for individuals who already have a bachelor degree but lack these required courses. It will supplement the existing bachelor program in Personal Financial Planning and the online seven course program the Woodbury School of Business currently offers in collaboration with Dalton Education.

Total Program Credits: 21

Matriculation Requirements:
Completion of a bachelor degree.

Discipline Core Requirements:		21 Credits
Prerequisites may be required.		
FIN 3060	Introduction to the PFP Profession	3
FIN 3210	Retirement Planning	3
FIN 3220	Risk Management and Insurance	3
FIN 3300	Tax Planning for Personal Financial Planners	3
FIN 3400	Investment Management	3
FIN 4210	Estate Planning Fundamentals	3
FIN 4800	Personal Financial Planning Capstone	3

Graduation Requirements:

1. Completion of a minimum of 21 semester credits.
2. Overall grade point average of 2.5 GPA in all courses. No grade lower than a "C-".

Financial Planning, Certificate of Proficiency Careers

Careers:
Fee-for-service planners, investment sales and service, financial counselors, wealth and asset managers, human resources benefits managers, and a variety of other financial services specialists.

Related Careers

- Personal Financial Advisors
- Credit Counselors
- Business Teachers, Postsecondary
- Securities, Commodities, and Financial Services Sales Agents

Operations Management, Certificate of Proficiency

Requirements

The Certificate in Operations Management gives graduates specialized skills in the analysis of how businesses manage processes to improve organizational functions. Graduates learn principles of scheduling, production, inventory management, quality management, lean processing, and other activities required for efficient organizational functions.

Total Program Credits: 21

Discipline Core Requirements:		21 Credits
All prerequisites must be met.		
MATH 1050	College Algebra (4.0)	
or	MATH 1055	College Algebra with Preliminaries (5.0)
or	MATH 1090	College Algebra for Business 3
or	Higher math course	
MGMT 2240	Business Calculus (3.0)	3
or	MATH 1100	Introduction to Calculus (or higher level calculus course) (4.0)
MGMT 2340	Business Statistics I (3.0)	3
or	STAT 2040	Principles of Statistics (4.0)
ECON 3340	Managerial Statistics (3.0)	3
MGMT 3450	Operations Management (3.0)	3
MGMT 3070	Total Quality Management (3.0)	3
MGMT 3470	Lean Management Systems (3.0)	3

Graduation Requirements:

1. Completion of a minimum of 21 semester credits.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: minimum of 6 credit hours through course attendance at UVU.

Operations Management, Certificate of Proficiency Careers

Careers:
Production managers, schedulers, quality managers, purchasing managers, process analysts, efficiency managers, expeditors, and varied other business operations specialists.

Related Careers

- Computer and Information Systems Managers
- Industrial Production Managers
- Construction Managers
- Logisticians
- Business Teachers, Postsecondary
- First-Line Supervisors of Mechanics, Installers, and Repairers
- First-Line Supervisors of Production and Operating Workers

Economics, Minor

Requirements

The Minor in Economics is intended for graduates from other disciplines to obtain the basics of economic theory and application to facilitate their ability to use economics analytical processes in the development of professional careers. Graduates learn the concepts of marginal analysis, demand and supply theory, characteristics of production and cost processes, and other related issues.

Total Program Credits: 18

Discipline Core Requirements:		12 Credits
ECON 2010	Microeconomics	3
ECON 2020	Macroeconomics	3
ECON 3020	Managerial Economics	3
ECON 3830	History of Economic Thought	3
Elective Requirements:		6 Credits
Choose six hours from the following courses:		6
ECON 3030	Intermediate Macroeconomics (3.0)	
ECON 3040	Environmental Economics (3.0)	
ECON 3810	Labor Economics (3.0)	
ECON 3820	Economic Development (3.0)	
ECON 4150	Public Finance (3.0)	
ECON 4320	Mathematical Economics (3.0)	
FIN 4100	Management of Financial Institutions (3.0)	
FIN 4180	International Finance Management (3.0)	

Economics, Minor

Careers

Careers:
Support positions in business, government, and financial industry managers.

Related Careers

- Managers, All Other

Finance and Economics

- Economists
- Survey Researchers
- Economics Teachers, Postsecondary

Finance, Minor

Requirements

The Minor in Finance is intended for graduates from other disciplines to learn the basic analytical skills of financial management, investment, and related financial services industry functions.

Total Program Credits: 18

Discipline Core Requirements:		9 Credits
	ECON 2010	Microeconomics
	MGMT 2340	Business Statistics I
or	STAT 2040	Principles of Statistics (4.0)
	FIN 3100	Principles of Finance
Elective Requirements:		9 Credits
Choose nine hours from the following courses:		9
	FIN 3150	Financial Management (3.0)
	FIN 3400	Investment Management (3.0)
	FIN 4100	Management of Financial Institutions (3.0)
	FIN 4160	Portfolio Management (3.0)
	FIN 4170	Derivative Securities (3.0)
	FIN 4180	International Finance Management (3.0)

Finance, Minor

Careers

Careers:		
Graduates will work in banking or investment sales.		

Related Careers

- Chief Executives
- General and Operations Managers
- Financial Managers
- Budget Analysts
- Credit Analysts
- Financial Analysts
- Personal Financial Advisors
- Loan Officers
- Financial Specialists, All Other
- Business Teachers, Postsecondary

Economics, B.A.

Requirements

The Bachelor degree in economics at WSB is designed to give graduates the analytic and quantitative skills to be effective business decision makers as well as to understand basic economic theory and application that can be useful should they choose to continue graduate studies in economics or related disciplines. Historically, graduates with economics degrees who go on to legal studies, an MBA, or other related professional degrees do significantly better than students from other disciplines. Students with language skills may take an appropriate range of academic courses and obtain a Bachelor of Arts degree.

Total Program Credits: 120

General Education Requirements:		36 Credits
	ENGL 1010	Introduction to Writing
		3

	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	
or	MATH 1055	College Algebra with Preliminaries (5.0)	
or	MATH 1090	College Algebra for Business	3
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics (fulfills Social/Behavioral Science credit)	3
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution (any foreign language 202G/2020 class)	4
		Fine Arts Distribution	3
Discipline Core Requirements:			72 Credits
Business Foundation Courses:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
		My Educator*	
or	IM 2010	Business Computer Proficiency (3.0)*	
or	IM 2600	Spreadsheet Applications (3.0)*	
	ECON 2010	Microeconomics	3
	MATH 1100	Introduction to Calculus (4.0)	3
or	MGMT 2240	Business Calculus	3
	MKTG 2200	Written Business Communication (Complete with B- grade or higher)	3
	MGMT 2340	Business Statistics I	3
Business Core Courses:			
	FIN 3100	Principles of Finance	3
	LEGL 3000	Business Law	3
	MKTG 3600	Principles of Marketing	3
	MGMT 3000	Organizational Behavior	3
	MGMT 3450	Operations Management	3
	ENTR 493R	Entrepreneurship Lecture Series (1.0)	
or	MGMT 495R	Executive Lecture Series	1
Economics Core Requirements:			

ECON 3010	Intermediate Microeconomics	3
ECON 3030	Intermediate Macroeconomics	3
ECON 305G	International Economics	3
ECON 3340	Managerial Statistics	3
ECON 3370	Economic Modeling and Quantitative Analysis	3
ECON 3830	History of Economic Thought	3
ECON 4340	Econometrics Applications	3
ECON 4960	Senior Seminar Current Economic Issues	3
Economics Elective Requirements:		
Choose 14 credits from any 3000 or 4000 level ACC, ECON, or FIN course not already taken in consultation with appropriate faculty or an advisor.		14
Elective Requirements:		12 Credits
Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence		12

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BA degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

Footnote
* Students will be required to complete the My Educator with a score of 80 percent or higher or complete the IM 2010 or IM 2600 course with a score of 80 percent or higher.

Economics, B.A. Careers

Careers:	
Preparation for graduate work, banking, financial analysis, market analysis, government analysts, business consulting, and management.	

Related Careers

- Managers, All Other
- Economists
- Survey Researchers
- Economics Teachers, Postsecondary

Economics, B.S.

Requirements

The Bachelor degree in economics at WSB is designed to give graduates the analytic and quantitative skills to be effective business decision makers as well as to understand basic economic theory and application that can be useful should they choose to continue graduate studies in economics or related disciplines. Historically, graduates with economics degrees who go on to legal studies, an MBA, or other related professional degrees do significantly better than students from other disciplines. Students with language skills may take an appropriate range of academic courses and obtain a Bachelor of Arts degree.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
MATH 1050	College Algebra (4.0)	
or MATH 1055	College Algebra with Preliminaries (5.0)	
or MATH 1090	College Algebra for Business	3
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
ECON 2020	Macroeconomics (fulfills Social/Behavioral Science credit)	3
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Discipline Core Requirements:		74 Credits
Business Foundation Courses:		
ACC 2010	Financial Accounting	3
ACC 2020	Managerial Accounting	3
My Educator*		
or IM 2010	Business Computer Proficiency (3.0) *	
or IM 2600	Spreadsheet Applications (3.0)*	
ECON 2010	Microeconomics	3
MATH 1100	Introduction to Calculus	
or MGMT 2240	Business Calculus (3.0)	3
MKTG 2200	Written Business Communication (Complete with B- grade or higher)	3
MGMT 2340	Business Statistics I	3
Business Core Courses:		
FIN 3100	Principles of Finance	3
LEGL 3000	Business Law	3
MKTG 3600	Principles of Marketing	3
MGMT 3000	Organizational Behavior	3
MGMT 3450	Operations Management	3
ENTR 493R	Entrepreneurship Lecture Series (1.0)	

Finance and Economics

or	MGMT 495R	Executive Lecture Series	1
Economics Core Requirements:			
	ECON 3010	Intermediate Microeconomics	3
	ECON 3030	Intermediate Macroeconomics	3
	ECON 305G	International Economics	3
	ECON 3340	Managerial Statistics	3
	ECON 3370	Economic Modeling and Quantitative Analysis	3
	ECON 3830	History of Economic Thought	3
	ECON 4340	Econometrics Applications	3
	ECON 4960	Senior Seminar Current Economic Issues	3
Economics Elective Requirements:			
Choose 16 credits from any 3000 or 4000 level ACC, ECON, or FIN course not already taken in consultation with an appropriate faculty or an advisor.			16
Elective Requirements:			11 Credits
Complete 11 credits of any courses 1000 or higher			11

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

Footnote
* Students will be required to complete the My Educator with a score of 80 percent or higher or complete the IM 2010 or IM 2600 course with a score of 80 percent or higher.

Economics, B.S. Careers

Careers:	
Preparation for graduate work, banking, financial analysis, market analysis, government analysts, business consulting, and management.	

Related Careers

- Managers, All Other
- Economists
- Survey Researchers
- Economics Teachers, Postsecondary

Finance, B.A.

Requirements

The Bachelor Degree in Finance at WSB prepares graduates for careers in the financial services industry. Students learn basic financial theory as well as specialized courses in financial management of corporate and business organizations, analysis of investment alternatives, and other more sophisticated finance related activities. Graduates go into banking, brokerages, become financial managers, and perform a variety of other financial services functions. Students with language skills may take an appropriate number of courses to obtain a Bachelor of Arts degree.

Total Program Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	
or	MATH 1055	College Algebra with Preliminaries (5.0)	
or	MATH 1090	College Algebra for Business	3
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics (fulfills Social/Behavioral Science credit)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (any foreign language 202G/2020 class)		4
	Fine Arts Distribution		3
Discipline Core Requirements:		72 Credits	
Business Foundation Courses:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	My Educator*		
or	IM 2010	Business Computer Proficiency (3.0)*	
or	IM 2600	Spreadsheet Applications (3.0)*	
	ECON 2010	Microeconomics	3
	MATH 1100	Introduction to Calculus	3
or	MGMT 2240	Business Calculus (3.0)	
	MKTG 2200	Written Business Communication (Complete with a B- Grade or higher)	3
	MGMT 2340	Business Statistics I	3
Business Core Courses:			
	FIN 3100	Principles of Finance	3
	LEGL 3000	Business Law	3
	MKTG 3600	Principles of Marketing	3
	MGMT 3000	Organizational Behavior	3
	MGMT 3450	Operations Management	3

	ECON 305G	International Economics	3
or	MGMT 330G	Survey of International Business (3.0)	
or	MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
	ENTR 493R	Entrepreneurship Lecture Series (1.0)	
or	MGMT 495R	Executive Lecture Series	1
Finance Core Requirements:			
	ECON 3010	Intermediate Microeconomics (3.0)	
or	ECON 3020	Managerial Economics	3
	ECON 3340	Managerial Statistics	3
	FIN 3150	Financial Management	3
	FIN 3400	Investment Management	3
	FIN 4100	Management of Financial Institutions	3
	MGMT 4860	Business Strategy Formulation and Implementation	4
Finance Elective Requirements:			
	Choose 16 credits from any 3010 or 4000 level ACC, ECON, or FIN course not already taken in consultation with appropriate faculty or an advisor. Note: FIN courses in the PFP Major will not be authorized for finance major electives except for FIN 3060. (FIN courses excluded 3200, 3210, 3220, 3300, 4200, 4210, 4270, 4290, 4800, and 483R)		16
Elective Requirements:			12 Credits
Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence			12

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BA degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

Footnote
*Students will be required to complete My Educator with a score of 80 percent or higher or complete the IM 2010 or 2600 course with a score of 80 percent or higher.

**Finance, B.A.
Careers**

Careers:	
Financial managers, investment sales and analysis, securities brokers, banking, corporate financial management, wealth and asset managers.	

Related Careers

- Chief Executives
- General and Operations Managers
- Financial Managers
- Budget Analysts
- Credit Analysts
- Financial Analysts
- Personal Financial Advisors

- Loan Officers
- Financial Specialists, All Other
- Business Teachers, Postsecondary

Finance, B.S.

Requirements

The Bachelor degree in finance at WSB prepares graduates for careers in the financial services industry. Students learn basic financial theory as well as specialized courses in financial management of corporate and business organizations, analysis of investment alternatives, and other more sophisticated finance related activities. Graduates go into banking, brokerages, become financial managers, and perform a variety of other financial services functions. Students with languages skills may take an appropriate number of courses to obtain a Bachelor of Arts degree.

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	
or	MATH 1055	College Algebra with Preliminaries (5.0)	
or	MATH 1090	College Algebra for Business	3
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics (fulfills Social/Behavioral Science credit)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:			74 Credits
Business Foundation Courses:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	My Educator*		
or	IM 2010	Business Computer Proficiency (3.0)*	
or	IM 2600	Spreadsheet Applications (3.0)*	
	ECON 2010	Microeconomics	3

Finance and Economics

	MATH 1100	Introduction to Calculus	3
or	MGMT 2240	Business Calculus (3.0)	
	MKTG 2200	Written Business Communication	3
	MGMT 2340	Business Statistics I	3
Business Core Courses:			
	FIN 3100	Principles of Finance	3
	LEGL 3000	Business Law	3
	MKTG 3600	Principles of Marketing	3
	MGMT 3000	Organizational Behavior	3
	MGMT 3450	Operations Management	3
	ECON 305G	International Economics	3
or	MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
or	MGMT 330G	Survey of International Business (3.0)	
	MGMT 495R	Executive Lecture Series	1
or	ENTR 493R	Entrepreneurship Lecture Series (1.0)	
Finance Core Requirements:			
	ECON 3010	Intermediate Microeconomics (3.0)	
or	ECON 3020	Managerial Economics	3
	ECON 3340	Managerial Statistics	3
	FIN 3150	Financial Management	3
	FIN 3400	Investment Management	3
	FIN 4100	Management of Financial Institutions	3
	MGMT 4860	Business Strategy Formulation and Implementation	4
Finance Elective Requirements:			
		Choose 18 credits from any 3010 or 4000 level ACC, ECON, or FIN course not already taken in consultation with an appropriate faculty or an advisor. Note: FIN courses in the PFP Major will not be authorized for finance major electives except for FIN 3060. (FIN courses excluded 3200, 3210, 3220, 3300, 4200, 4210, 4270, 4290, 4800, and 483R)	18
		Elective Requirements:	11 Credits
		Complete 11 credits of any courses 1000 or higher	11

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

Footnote
* Students will be required to complete the My Educator with a score of 80 percent or higher or complete the IM 2010 or IM 2600 course with a score of 80 percent or higher.

Finance, B.S. Careers

Careers:	
Financial managers, investment sales and analysis, securities brokers, banking, corporate financial management, wealth and asset managers.	

Related Careers

- Chief Executives
- General and Operations Managers
- Financial Managers
- Budget Analysts
- Credit Analysts
- Financial Analysts
- Personal Financial Advisors
- Loan Officers
- Financial Specialists, All Other
- Business Teachers, Postsecondary

Personal Financial Planning, B.S.

Requirements

The WSB Bachelor of Science in Personal Financial Planning (PFP) prepares graduates with the courses necessary to meet educational requirements to sit for the Certified Financial Planning Board of Standards, Inc. accreditation process. It is intended to prepare students to become fee-for-service professional planners with strong ethical standards who work with families and individuals developing specific budget, asset management, and related planning processes.

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	
or	MATH 1055	College Algebra with Preliminaries (5.0)	
or	MATH 1090	College Algebra for Business	3
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics (Fulfills Social/Behavioral Science credit)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3

	Humanities Distribution	3	
	Fine Arts Distribution	3	
Discipline Core Requirements:		80 Credits	
Business Foundation Courses:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
My Educator*			
or	IM 2010	Business Computer Proficiency (3.0) *	
or	IM 2600	Spreadsheet Applications (3.0)*	
	ECON 2010	Microeconomics	3
	MATH 1100	Introduction to Calculus (4.0)	
or	MGMT 2240	Business Calculus	3
	MKTG 2200	Written Business Communication (Complete with B- grade or higher)	3
	MGMT 2340	Business Statistics I	3
Business Core Courses:			
	LEGL 3000	Business Law	3
	MGMT 2390	Professional Business Presentations	3
	MGMT 3000	Organizational Behavior	3
	FIN 3100	Principles of Finance	3
	FIN 4290	Technological Applications in Personal Financial Planning	3
	ECON 305G	International Economics (3.0)	
or	MGMT 330G	Survey of International Business (3.0)	
or	MGMT 332G	Cross-Cultural Communications for International Business	3
	MGMT 3450	Operations Management	3
	MKTG 3600	Principles of Marketing	3
	MGMT 4860	Business Strategy Formulation and Implementation	4
Personal Financial Planning Core Requirements:			
	FIN 3060	Introduction to the PFP Profession	3
	FIN 3200	Financial Counseling	3
	FIN 3210	Retirement Planning	3
	FIN 3220	Risk Management and Insurance	3
	FIN 3300	Tax Planning for Personal Financial Planners	3
	FIN 3400	Investment Management	3
	FIN 4210	Estate Planning Fundamentals	3
	FIN 4270	Wealth Management Seminar	3
	FIN 4800	Personal Financial Planning Capstone	3
	FIN 481R	Personal Financial Planning Internship (2.0) (for a maximum of 3 credits)	3
	FIN 483R	Colloquium in PFP Professionalism	1
	MKTG 3650	Professional Selling	3
Elective Requirements:		5 Credits	
	PFP Program students need to add five (5) hours of elective credits in FIN courses in consultation with Faculty or Advisors to complete appropriate graduation requirements.		5

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until advanced standing status is completed.

Footnote

* Students will be required to complete My Educator with a score of 80 percent or higher or complete the IM 2010 or 2600 course with a score of 80 percent or higher.

Personal Financial Planning, B.S. Careers

Careers:

Fee-for-service planners, investment sales and service, financial counselors, wealth and asset managers, human resources benefits managers, and a variety of other financial services specialists.

Related Careers

- Personal Financial Advisors
- Credit Counselors
- Business Teachers, Postsecondary
- Securities, Commodities, and Financial Services Sales Agents

Graduation Requirements:

History and Political Science

Name:	History & Political Science
Location:	CB 203A 303A
Telephone:	801-863-8487
Email:	HISTPOLS@uvu.edu
Web Address:	uvu.edu/hps
Chair:	Jay DeSart

Mission Statement

In keeping with the University's mission, the History and Political Science department is dedicated to providing students with a broad range of opportunities in general-education and discipline-specific courses. Our faculty members are committed to quality teaching, mentoring, and research. In an environment of discussion-based classroom experience and independent research opportunities, students develop analytical abilities, communication skills, and history and political science research methods. The History and Political Science department continually strives to provide a reflective, multicultural, and international perspective for students to actively engage in.

History & Political Science

Administrative Contact:

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FACULTY

ABDRISAEV, Baktybek *Lecturer*
BENNETT, Lyn E. *Professor*
BIBBY, Andrew *Assistant Professor*
CHO, Richard *Lecturer*
COCKERHAM, Geoffrey *Associate Professor*
DESART, Jay A. *Associate Professor*
ENGLAND, Lynn *Lecturer*
FARNSWORTH, F. Dennis Jr. *Professor*
GOODE, Michael J. *Assistant Professor*
GRIFFIN, Rick A. *Associate Professor*
HUNT, John M. *Assistant Professor*
ISTOOK, Ernest *Lecturer*
JANSEN, Dustin O. *Assistant Professor*
LENTZ, Mark *Assistant Professor*
NIGRO, Jenna *Assistant Professor*
PANG, Hong *Assistant Professor*
PETERSON, Luke P. *Lecturer*
SNEDEGAR, Keith *Professor*
SYLVESTER, Steven M. *Assistant Professor*
WILSON, David R. *Associate Professor*
WINANS, Adrienne A. *Assistant Professor*

Course Descriptions

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Degrees & Programs

History and Political Science, A.A.

Requirements

UVU's History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students' ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 62

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits	
	Complete 16 Credits from any ECON, GEOG, HIST, or POLS courses.		16
Elective Requirements:		11 Credits	
	One Foreign Language		8
	Complete any course numbered 1000 or higher		3

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

5. For the AA degree, completion of 8 credit hours of course work from one language.

History and Political Science, A.A. Careers

Careers:
Archeologist
Archivist
Research Assistant
Genealogist
Government Official
Historian
Historic Preservationist
Historic Site Tour Guide
Historical Society Staff
Teacher, History & Social Studies
Librarian
Museum Curator
Museum Specialist
Peace Corps
Writer/Author
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Historians
- History Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

History and Political Science, A.S. Requirements

UVU's History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students' ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students

History and Political Science

develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 62

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits	
	Complete 16 Credits from any ECON, GEOG, HIST, or POLS courses.		16
Elective Requirements:		11 Credits	
	Complete any course numbered 1000 or higher		11

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

History and Political Science, A.S. Careers

Careers:
Archeologist
Archivist
Research Assistant
Genealogist
Government Official
Historian
Historic Preservationist
Historic Site Tour Guide
Historical Society Staff
Teacher, History & Social Studies
Librarian
Museum Curator
Museum Specialist
Peace Corps
Writer/Author
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Historians
- History Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Constitutional Studies, Minor

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 21

Matriculation Requirements:
To be admitted into the program, students must:
1. Possess a 3.0 grade point average
2. Complete 30 credit hours
3. Complete POLS 1000 American Heritage or POLS 1100 American National Government

Discipline Core Requirements:		12 Credits	
	POLS 3250	Introduction to Law and Politics	3
or	LEGL 3250	Introduction to Law and Politics (3.0)	
	CNST 4720	Foundations of American Constitutionalism	3
	CNST 4790	US Constitution	3
	CNST 4795	Civil Rights and Civil Liberties	3
Elective Requirements:		9 Credits	
Complete three of the following courses for 9 credits:		9	
	POLS 1020	Political Ideologies (3.0)	
	POLS 3300	Introduction to Public Administration (3.0)	
	POLS 4610	International Law and Relations (3.0)	
	ECON 4500	US Economic Development and History (3.0)	
	CNST 3870	Constitutional History to Plessy 1896 (3.0)	
	CNST3880	Constitutional History since Plessy 1896 (3.0)	
	HIST 3320	Modern Britain (3.0)	
	LEGL 4190	Constitutional Law (3.0)	
	CJ 4160	Constitutional Criminal Rights (3.0)	
	CNST 4730	Framing of the US Constitution (3.0)	
	CNST 2600	Comparative Constitutionalism (3.0)	
	or any other Coordinator or Chair approved courses.		

Constitutional Studies, Minor Careers

Careers:
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

History, Minor

Requirements

UVU's History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students' ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Total Program Credits: 21

Matriculation Requirements:			
1. Successful completion of one history course at UVU.			
2. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:		12 Credits	
	HIST 1500	World History to 1500	3
	HIST 151G	World History from 1500 to the Present	3
	HIST 2700	US History to 1877	3
	HIST 2710	US History since 1877	3
Elective Requirements:		9 Credits	
Any three upper division history courses except HIST 4860 and HIST 4990.		9	

Graduation Requirements:

1. Complete all history courses with a grade of "C-" or better.

History, Minor Careers

Careers:
Archeologist
Archivist
Research Assistant
Genealogist
Government Official
Historian
Historic Preservationist
Historic Site Tour Guide
Historical Society Staff
Teacher, History & Social Studies
Librarian
Museum Curator
Museum Specialist
Peace Corps
Writer / Author

Related Careers

- Managers, All Other
- Historians
- History Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Political Science, Minor

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 21

History and Political Science

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Completion of POLS 1010, Introduction to Political Science; or POLS 1100, American National Government. 2. Admitted to a bachelor degree program at UVU. 		
Discipline Core Requirements:		21 Credits
Complete THREE of the following:		9
POLS 1020	Political Ideologies (3.0)	
POLS 2100	Introduction to International Relations (3.0)	
POLS 2200	Introduction to Comparative Politics (3.0)	
POLS 230G	Introduction to Political Theory (3.0)	
POLS 3120	Political Parties (3.0)	
POLS 3300	Introduction to Public Administration (3.0)	
Complete TWO of the following:		6
POLS 3030	State and Local Government (3.0)	
POLS 3150	US Presidency (3.0)	
POLS 3200	US Congress (3.0)	
POLS 3250	Introduction to Law and Politics (3.0)	
CNST 4720	Foundations of American Constitutionalism (3.0)	
CNST 4790	US Constitution (3.0)	
Complete TWO of the following:		6
AIST 3600	American Indian Policy and Tribal Government (3.0)	
POLS 3000	Political Analysis (3.0)	
POLS 3100	Survey of International Terrorism (3.0)	
POLS 3180	Public Opinion and Political Behavior (3.0)	
POLS 3400	American Foreign Policy (3.0)	
POLS 3500	International Relations of the Middle East (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
POLS 3610	International Organization (3.0)	
POLS 3680	International Political Economy (3.0)	
POLS 4500	International Conflict and Security (3.0)	
POLS 4610	International Law and Relations (3.0)	
POLS 480R	Internship (2.0)	

Graduation Requirements:

1. Complete all political science courses with a grade of "C-" or better.

Political Science, Minor Careers

Careers:

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists

- Political Science Teachers, Postsecondary

History and Social Studies Education, B.S.

Requirements

UVU's History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students' ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Total Program Credits: 121

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement. 2. GPA of 3.0 or higher with no grade lower than a C in content area courses. 3. Completion of all General Education requirements and the majority of content area courses. 4. Pass LiveScan Criminal Background Check. 			
General Education Requirements:		35 Credits	
ENGL 1010	Introduction to Writing	3	
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3	
Complete one of the following:		3	
MAT 1030	Quantitative Reasoning (3.0)		
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)		
STAT 1040	Introduction to Statistics (3.0)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (4.0)		
MATH 1055	College Algebra with Preliminaries (5.0)		
MATH 1090	College Algebra for Business (3.0)		
Complete the following:		3	
POLS 1100	American National Government (3.0)		
Complete the following:			
PHIL 2050	Ethics and Values	3	
HLTH 1100	Personal Health and Wellness (2.0)		
or	PES 1097	Fitness for Life	2
Distribution Courses:			
Biology		3	
GEOG 1000	Introduction to Physical Geography (Fulfills Physical Science)	3	
Additional Biology or Physical Science		3	
Humanities Distribution		3	
Fine Arts Distribution		3	
Social/Behavioral Science		3	

	POLS 1010	Introduction to Political Science (3.0)	
or	POLS 2200	Introduction to Comparative Politics (3.0)	
or	POLS 2100	Introduction to International Relations (3.0)	
Discipline Core Requirements:			86 Credits
Complete the following:			
	HIST 1500	World History to 1500	3
	HIST 151G	World History from 1500 to the Present	3
	HIST 2700	US History to 1877	3
	HIST 2710	US History since 1877	3
	HIST 3010	The Historian's Craft	3
	HIST 3260	History of Utah	3
	HIST 4250	Teaching History in the Secondary Curriculum (Student must earn a minimum B- grade or higher)	3
Professional Education Courses			
	EDSC 3000	Educational Psychology	3
	EDSC 3050	Foundations of American Education	2
	EDSC 3250	Instructional Media	2
	EDSC 4200	Classroom Management I	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10
	EDSP 3400	Exceptional Students	2
Choose two courses from each of the following two areas of study.			12
United States			
	AIST 3810	Precolumbian America (3.0)	
	HIST 320G	Women in American History to 1870 (3.0)	
	HIST 321G	Women in American History since 1870 (3.0)	
	HIST 322G	History of the American West to 1850 (3.0)	
	HIST 323G	History of the American West since 1850 (3.0)	
	HIST 3730	American Origins to 1790 (3.0)	
	HIST 3731	United States History 1790-1890 (3.0)	
	HIST 3732	United States History 1890-1945 (3.0)	
	HIST 3740	American Revolution (3.0)	
	HIST 3745	Civil War and Reconstruction (3.0)	
	HIST 3800	Environmental History of the United States (3.0)	
	HIST 3870	Constitutional History to Plessy 1896 (3.0)	
	HIST 3880	Constitutional History since Plessy 1896 (3.0)	
	HIST 466G	Legacies and Reckonings in the American West (3.0)	
	HIST 471R	Special Issues and Topics in American History (3.0)	
World History			
	HIST 204G	Colonial Latin America (3.0)	
	HIST 205G	Modern Latin America (3.0)	

	HIST 430G	Violence and Social Conflict in Latin America (3.0)	
	HIST 3110	Greek History (3.0)	
	HIST 3130	Roman Republic (3.0)	
	HIST 3140	Roman Empire (3.0)	
	HIST 3150	Medieval Europe (3.0)	
	HIST 3160	Renaissance and Reformation--Europe 1350 to 1600 (3.0)	
	HIST 3170	Absolutism Enlightenment and Revolution--Europe from 1600 to 1815 (3.0)	
	HIST 3180	Nineteenth Century Europe (3.0)	
	HIST 3190	Twentieth Century Europe (3.0)	
	HIST 3320	Modern Britain (3.0)	
	HIST 366G	The History of Modern Russia--1864 to Present (3.0)	
	HIST 4170	The USSR Under Stalin (3.0)	
	HIST 3440	The History of World War I (3.0)	
	HIST 345G	The History of World War II (3.0)	
	HIST 4100	Jewish History (3.0)	
	HIST 420R	Issues and Topics in Global History (3.0)	
	HIST 4130	Anti-Semitism and the Holocaust (3.0)	
	HIST 4320	History of Scientific Thought (3.0)	
	HIST 4330	Machines in the Making of History (3.0)	
	HIST 435R	Issues and Topics in the History of Science (3.0)	
	HIST 461G	Peoples of the Atlantic World 1450-1800 (3.0)	
	HIST 3030	Introduction to African History (3.0)	
	HIST 3540	History of South Africa (3.0)	
Social Studies Composite - Please see your Advisor. Students must receive a C grade or higher in all content area classes.			21
	ANTH 101G	Social/Cultural Anthropology (3.0)	
	SOC 1010	Introduction to Sociology (3.0)	
	HIST 1740	US Economic History (3.0)	
	ECON 1010	Economics as a Social Science (3.0)	
	PSY 1010	General Psychology (3.0)	
	GEOG 130G	Survey of World Geography (3.0)	
	GEOG 1600	Geography of Utah (3.0)	
Any other Advisor approved courses.			

Graduation Requirements:

1. Completion of a minimum of 121 semester credits.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

History and Social Studies Education, B.S. Careers

Careers:

History and Political Science

Teach History/Social Studies in Middle School and High School.
Archivist
Research Assistant
Genealogist
Historian
Historic Preservationist
Historic Site Tour Guide
Historical Society Staff
Librarian
Museum Curator
Museum Specialist
Writer / Author

Related Careers

- Education Teachers, Postsecondary
- History Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

History, B.A.

Requirements

UVU's History Program is dedicated to developing the twenty-first century student. We provide the general student body a broad range of courses that increase global awareness, engagement and informed citizenship, as well as develop critical thinking, writing, and oral expression. In addition, History majors can choose from a large number of in-depth upper division courses that further their content knowledge and expand their abilities to critically analyze past and current events in a variety of regions and nations. In all courses, students and faculty observe the human experience by investigating the diverse historical perspectives of the past and present. History faculty endeavor to teach in ways that foster independent thinking, engage the students with historical conversations and debates, and improve students' ability to communicate in a variety of media. Students who successfully complete our programs will have a valuable set of skills for further study in graduate and professional programs, and careers in public service or private enterprise.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	

Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution (Fulfilled by completing Foreign Language Course 202G/2020)		4
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		45 Credits
GEOG 130G	Survey of World Geography	3
HIST 1500	World History to 1500	3
HIST 151G	World History from 1500 to the Present	3
HIST 2700	US History to 1877	3
HIST 2710	US History since 1877	3
HIST 3010	The Historian's Craft	3
HIST 4980	Senior Research Thesis Research Component	3
HIST 4990	Senior Research Thesis Writing Component	3
Complete any three upper-division History courses		9
Select at least one course from each Area of Study		12
A. European History (3.0)		
HIST 3110	Greek History (3.0)	
HIST 3130	Roman Republic (3.0)	
HIST 3140	Roman Empire (3.0)	
HIST 3150	Medieval Europe (3.0)	
HIST 3160	Renaissance and Reformation--Europe 1350 to 1600 (3.0)	
HIST 3170	Absolutism Enlightenment and Revolution--Europe from 1600 to 1815 (3.0)	
HIST 3180	Nineteenth Century Europe (3.0)	
HIST 3190	Twentieth Century Europe (3.0)	
HIST 3320	Modern Britain (3.0)	
HIST 366G	The History of Modern Russia--1864 to Present (3.0)	
HIST 4170	The USSR Under Stalin (3.0)	
B. United States History (3.0)		
AIST 3810	Precolumbian America (3.0)	
HIST 320G	Women in American History to 1870 (3.0)	
HIST 321G	Women in American History since 1870 (3.0)	
HIST 322G	History of the American West to 1850 (3.0)	
HIST 323G	History of the American West since 1850 (3.0)	
HIST 3260	History of Utah (3.0)	
HIST 3730	American Origins to 1790 (3.0)	
HIST 3731	United States History 1790-1890 (3.0)	
HIST 3732	United States History 1890-1945 (3.0)	

HIST 3740	American Revolution (3.0)	
HIST 3745	Civil War and Reconstruction (3.0)	
HIST 3800	Environmental History of the United States (3.0)	
HIST 382G	Indians of Eastern North America (3.0)	
HIST 466G	Legacies and Reckonings in the American West (3.0)	
C. World History (3)		
HIST 204G	Colonial Latin America (3.0)	
HIST 205G	Modern Latin America (3.0)	
HIST 3030	Introduction to African History (3.0)	
HIST 3540	History of South Africa (3.0)	
HIST 430G	Violence and Social Conflict in Latin America (3.0)	
HIST 461G	Peoples of the Atlantic World 1450-1800 (3.0)	
HIST 463G	Missions and Conversion in the Early Americas (3.0)	
D. Special Topics (3.0)		
HIST 3020	Introduction to Public History (3.0)	
HIST 3440	The History of World War I (3.0)	
HIST 345G	The History of World War II (3.0)	
HIST 400R	History Practicum (3.0)	
HIST 4100	Jewish History (3.0)	
HIST 4130	Anti-Semitism and the Holocaust (3.0)	
HIST 4140	Genocide in the Twentieth Century (3.0)	
HIST 420R	Issues and Topics in Global History (3.0)	
HIST 4320	History of Scientific Thought (3.0)	
HIST 4330	Machines in the Making of History (3.0)	
HIST 435R	Issues and Topics in the History of Science (3.0)	
HIST 471R	Special Issues and Topics in American History (3.0)	
HIST 482R	Public History Internship (2.0)	
HIST 490R	Independent Study (1.0)	
HIST 491R	Directed Readings (2.0)	
Elective Requirements:		39 Credits
Any courses numbered 1000 or higher (15 credits must be upper division).		27
Complete additional 12 hours of one Foreign Language.		12

Graduation Requirements:

1. Completion of a minimum of 120 credits, 40 of which must be 3000 level or higher.
2. Minimum UVU GPA of 2.0 upon graduation, with no HIST course grade below a C-.
3. Completion of four semesters of one foreign language.
4. Complete one of the two tracks in the Areas of Study requirements.
5. Comply with the catalog's rule on maximum number of years in the program.
6. Minimum of 30 credits must be taken at UVU (at least 10 of which must be part of the final 45 credits earned).
7. Successful completion of at least one Global/Intercultural course.

NOTES: Students should frequently consult with his/her advisor on program requirements.

History, B.A.

Careers

Careers:
Archeologist
Archivist
Research Assistant
Genealogist
Government Official
Historian
Historic Preservationist
Historic Site Tour Guide
Historical Society Staff
Teacher, History & Social Studies
Librarian
Museum Curator
Museum Specialist
Peace Corps
Writer / Author

Related Careers

- Managers, All Other
- Historians
- History Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Political Science - American Government Emphasis, B.A.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	

History and Political Science

Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities (fulfilled by completing any foreign language 202G/2020 course)		4
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		27 Credits
POLS 1100	American National Government	3
POLS 2100	Introduction to International Relations	3
POLS 2200	Introduction to Comparative Politics	3
POLS 230G	Introduction to Political Theory	3
POLS 3000	Political Analysis	3
POLS 3250	Introduction to Law and Politics	3
POLS 3300	Introduction to Public Administration	3
POLS 3310	Introduction to Public Policy	3
POLS 4990	Senior Seminar (3.0)	
or POLS 480R	Internship	3
Elective Requirements:		36 Credits
Foreign Language Requirement: Complete 1010,1020, 2010, and 202G (one language)		12
Any courses numbered 1000 or higher. (9 credit hours must be upper division (3000-4000 level courses))		24
Emphasis Requirements:		21 Credits
Complete 21 credits from the followings courses:		21
AIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
CNST 3870	Constitutional History to Plessy 1896 (3.0)	
CNST 3880	Constitutional History Since Plessy 1896 (3.0)	
CNST 4720	Foundations of American Constitutionalism (3.0)	
CNST 4790	US Constitution (3.0)	
PJST 4300	Race Gender and Class in Peace and Justice (3.0)	
POLS 3030	State and Local Government (3.0)	
POLS 3040	Survey Research and Design Methods (3.0)	
POLS 3120	Political Parties (3.0)	
POLS 3150	US Presidency (3.0)	

POLS 3180	Public Opinion and Political Behavior (3.0)	
POLS 3200	US Congress (3.0)	
POLS 3220	Interest Groups (3.0)	
POLS 3480	Race in Politics (3.0)	
POLS 420R	Issues and Topics in Political Science (3.0)	
POLS 4250	Public Health Organization and Policy (3.0)	
POLS 490R	Independent Study (1.0)	
PHIL 3700	Social and Political Philosophy (3.0)	
SOC 3460	Political Sociology (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of coursework from one language to include 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Political Science - American Government Emphasis, B.A.

Careers

Careers:

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - American Government Emphasis, B.S.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3

Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		39 Credits
POLS 1100	American National Government	3
POLS 2100	Introduction to International Relations	3
POLS 2200	Introduction to Comparative Politics	3
POLS 230G	Introduction to Political Theory	3
POLS 3000	Political Analysis	3
POLS 3250	Introduction to Law and Politics	3
POLS 3300	Introduction to Public Administration	3
POLS 3310	Introduction to Public Policy	3
POLS 4990	Senior Seminar (3.0)	
or POLS 480R	Internship	3
Quantitative Requirement		
POLS 3010	Political Analysis II	3
Complete 9 credits from the following courses:		9
POLS 3020	Public Program Analysis (3.0)	
POLS 3040	Survey Research and Design Methods (3.0)	
POLS 3050	Experimental Methods in Political Science (3.0)	
POLS 3060	Qualitative Analysis (3.0)	
POLS 3070	Policy Analysis (3.0)	

Elective Requirements:		25 Credits
Any courses numbered 1000 or higher. (3 credit hours must be upper division (3000-4000 level courses))		25
Emphasis Requirements:		21 Credits
Complete 21 credits from the followings courses:		21
AIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
CNST 3870	Constitutional History to Plessy 1896 (3.0)	
CNST 3880	Constitutional History Since Plessy 1896 (3.0)	
CNST 4720	Foundations of American Constitutionalism (3.0)	
CNST 4790	US Constitution (3.0)	
PJST 4300	Race Gender and Class in Peace and Justice (3.0)	
POLS 3030	State and Local Government (3.0)	
POLS 3040	Survey Research and Design Methods (3.0)	
POLS 3120	Political Parties (3.0)	
POLS 3150	US Presidency (3.0)	
POLS 3180	Public Opinion and Political Behavior (3.0)	
POLS 3200	US Congress (3.0)	
POLS 3220	Interest Groups (3.0)	
POLS 3480	Race in Politics (3.0)	
POLS 420R	Issues and Topics in Political Science (3.0)	
POLS 4250	Public Health Organization and Policy (3.0)	
POLS 490R	Independent Study (1.0)	
PHIL 3700	Social and Political Philosophy (3.0)	
SOC 3460	Political Sociology (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade below C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Political Science - American Government Emphasis, B.S.

Careers

Careers:

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels; policy analysis and lobbying for both nonprofit organizations and corporations; foreign service; campaign consulting; public opinion and marketing research; journalism; and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Global Politics Emphasis, B.A.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities (fulfilled by completing any foreign language 202G/2020 course)		4
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		27 Credits
POLS 1100	American National Government	3
POLS 2100	Introduction to International Relations	3
POLS 2200	Introduction to Comparative Politics	3
POLS 230G	Introduction to Political Theory	3

POLS 3000	Political Analysis	3
POLS 3250	Introduction to Law and Politics	3
POLS 3300	Introduction to Public Administration	3
POLS 3310	Introduction to Public Policy	3
POLS 4990	Senior Seminar (3.0)	
or POLS 480R	Internship	3
Elective Requirements:		36 Credits
Foreign Language Requirement: Complete 1010,1020, 2010, and 202G (one language)		12
Any courses numbered 1000 or higher. (9 credit hours must be upper division (3000-4000 level courses))		24
Emphasis Requirements:		21 Credits
Complete 21 credits from the followings courses:		21
CNST 4720	Foundations of American Constitutionalism (3.0)	
CNST 4790	US Constitution (3.0)	
CNST 4795	Civil Rights and Civil Liberties (3.0)	
HIST 205G	Modern Latin America (3.0)	
POLS 2210	Introduction to Chinese Politics (3.0)	
POLS 2250	Globalization and Sustainable Mountain Development (3.0)	
POLS 3100	Survey of International Terrorism (3.0)	
POLS 3210	World Diplomacy (3.0)	
POLS 3400	American Foreign Policy (3.0)	
POLS 3420	Islam in World Affairs (3.0)	
POLS 3500	International Relations of the Middle East (3.0)	
POLS 3510	Post Soviet Politics (3.0)	
POLS 356G	Comparative Politics of Central Asia (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
POLS 3610	International Organization (3.0)	
POLS 362G	Modern Chinese Political Economy (3.0)	
POLS 3620	Latin American Politics (3.0)	
POLS 3650	Model United Nations (3.0)	
POLS 3680	International Political Economy (3.0)	
POLS 420R	Issues and Topics in Political Science (3.0)	
POLS 4500	International Conflict and Security (3.0)	
POLS 4610	International Law and Relations (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of coursework from one language to include 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Political Science - Global Politics Emphasis, B.A. Careers

<p>Careers:</p> <p>Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.</p>
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Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Global Politics Emphasis, B.S.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the “queen of the sciences.” It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow’s public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2

Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		39 Credits
POLS 1100	American National Government	3
POLS 2100	Introduction to International Relations	3
POLS 2200	Introduction to Comparative Politics	3
POLS 230G	Introduction to Political Theory	3
POLS 3000	Political Analysis	3
POLS 3250	Introduction to Law and Politics	3
POLS 3300	Introduction to Public Administration	3
POLS 3310	Introduction to Public Policy	3
POLS 4990	Senior Seminar (3.0)	
or POLS 480R	Internship	3
Quantitative Requirement		
POLS 3010	Political Analysis II	3
Complete 9 credits from the following courses:		9
POLS 3020	Public Program Analysis (3.0)	
POLS 3040	Survey Research and Design Methods (3.0)	
POLS 3050	Experimental Methods in Political Science (3.0)	
POLS 3060	Qualitative Analysis (3.0)	
POLS 3070	Policy Analysis (3.0)	
Elective Requirements:		25 Credits
Any courses numbered 1000 or higher. (3 credit hours must be upper division (3000-4000 level courses))		25
Emphasis Requirements:		21 Credits
Complete 21 credits from the followings courses:		21
CNST 4720	Foundations of American Constitutionalism (3.0)	
CNST 4790	US Constitution (3.0)	
CNST 4795	Civil Rights and Civil Liberties (3.0)	
HIST 205G	Modern Latin America (3.0)	
POLS 2210	Introduction to Chinese Politics (3.0)	
POLS 2250	Globalization and Sustainable Mountain Development (3.0)	
POLS 3100	Survey of International Terrorism (3.0)	
POLS 3210	World Diplomacy (3.0)	
POLS 3400	American Foreign Policy (3.0)	
POLS 3420	Islam in World Affairs (3.0)	
POLS 3500	International Relations of the Middle East (3.0)	
POLS 3510	Post Soviet Politics (3.0)	
POLS 356G	Comparative Politics of Central Asia (3.0)	
POLS 3600	International Relations of East Asia (3.0)	

History and Political Science

	POLS 3610	International Organization (3.0)	
	POLS 362G	Modern Chinese Political Economy (3.0)	
	POLS 3620	Latin American Politics (3.0)	
	POLS 3650	Model United Nations (3.0)	
	POLS 3680	International Political Economy (3.0)	
	POLS 420R	Issues and Topics in Political Science (3.0)	
	POLS 4500	International Conflict and Security (3.0)	
	POLS 4610	International Law and Relations (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade below C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Political Science - Global Politics Emphasis, B.S. Careers

Careers:
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Indian Affairs Administration Emphasis, B.A.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	

	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities (fulfilled by completing any foreign language 202G/2020 course)		4
	Fine Arts		3
	Social/Behavioral Science		3
Discipline Core Requirements:		27 Credits	
	POLS 1100	American National Government	3
	POLS 2100	Introduction to International Relations	3
	POLS 2200	Introduction to Comparative Politics	3
	POLS 230G	Introduction to Political Theory	3
	POLS 3000	Political Analysis	3
	POLS 3250	Introduction to Law and Politics	3
	POLS 3300	Introduction to Public Administration	3
	POLS 3310	Introduction to Public Policy	3
	POLS 4990	Senior Seminar (3.0)	
or	POLS 480R	Internship	3
Elective Requirements:		36 Credits	
	Foreign Language Requirement: Complete 1010, 1020, 2010, and 202G (one language)		12
	Any courses numbered 1000 or higher. (9 credit hours must be upper division (3000-4000 level courses))		24
Emphasis Requirements:		21 Credits	
Complete 21 credits from the followings courses:		21	
	AIST 180G	Introduction to American Indian Studies (3.0)	
	AIST 3360	American Indian Education Policy (3.0)	
	AIST 3590	American Indian Law (3.0)	
	AIST 3600	American Indian Policy and Tribal Government (3.0)	
	AIST 3850	The Struggle for Self-determination American Indians 1891 to present (3.0)	

AIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
AIST 490R	Special Topics in American Indian Studies (3.0)	
CNST 4795	Civil Rights and Civil Liberties (3.0)	
POLS 3030	State and Local Government (3.0)	
POLS 3320	Nonprofits and The Public Sector (3.0)	
POLS 3480	Race in Politics (3.0)	
POLS 4250	Public Health Organization and Policy (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of coursework from one language to include 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Political Science - Indian Affairs Administration Emphasis, B.A.

Careers

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Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Indian Affairs Administration Emphasis, B.S.

Requirements

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Total Program Credits: 120

General Education Requirements:	35 Credits
ENGL 1010 Introduction to Writing	3
ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:	3
MAT 1030 Quantitative Reasoning (3.0) (recommended)	

MAT 1035 Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040 Introduction to Statistics (3.0)	
STAT 1045 Introduction to Statistics with Algebra (5.0)	
MATH 1050 College Algebra (4.0) (recommended for business, Education, Science, and Health Professions majors)	
MATH 1055 College Algebra with Preliminaries (5.0)	
MATH 1090 College Algebra for Business (3.0)	
Complete one of the following:	3
HIST 1700 American Civilization (3.0)	
HIST 2700 US History to 1877 (3.0)	
and HIST 2710 US History since 1877 (3.0)	
HIST 1740 US Economic History (3.0)	
POLS 1000 American Heritage (3.0)	
Complete the following:	
PHIL 2050 Ethics and Values	3
HLTH 1100 Personal Health and Wellness (2.0)	
or PES 1097 Fitness for Life	2
Distribution Courses:	
Biology	3
Physical Science	3
Additional Biology or Physical Science	3
Humanities	3
Fine Arts	3
Social/Behavioral Science	3
Discipline Core Requirements:	39 Credits
POLS 1100 American National Government	3
POLS 2100 Introduction to International Relations	3
POLS 2200 Introduction to Comparative Politics	3
POLS 230G Introduction to Political Theory	3
POLS 3000 Political Analysis	3
POLS 3250 Introduction to Law and Politics	3
POLS 3300 Introduction to Public Administration	3
POLS 3310 Introduction to Public Policy	3
POLS 4990 Senior Seminar (3.0)	
or POLS 480R Internship	3
Quantitative Requirement	
POLS 3010 Political Analysis II	3
Complete 9 credits from the following courses:	9
POLS 3020 Public Program Analysis (3.0)	
POLS 3040 Survey Research and Design Methods (3.0)	
POLS 3050 Experimental Methods in Political Science (3.0)	
POLS 3060 Qualitative Analysis (3.0)	
POLS 3070 Policy Analysis (3.0)	
Elective Requirements:	25 Credits
Any courses numbered 1000 or higher. (3 credit hours must be upper division (3000-4000 level courses))	25

History and Political Science

Emphasis Requirements:		21 Credits
Complete 21 credits from the followings courses:		21
AIST 180G	Introduction to American Indian Studies (3.0)	
AIST 3360	American Indian Education Policy (3.0)	
AIST 3590	American Indian Law (3.0)	
AIST 3600	American Indian Policy and Tribal Government (3.0)	
AIST 3850	The Struggle for Self-determination American Indians 1891 to present (3.0)	
AIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
AIST 490R	Special Topics in American Indian Studies (3.0)	
CNST 4795	Civil Rights and Civil Liberties (3.0)	
POLS 3030	State and Local Government (3.0)	
POLS 3320	Nonprofits and The Public Sector (3.0)	
POLS 3480	Race in Politics (3.0)	
POLS 4250	Public Health Organization and Policy (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Political Science - Indian Affairs Administration Emphasis, B.S.

Careers

Careers:
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels; policy analysis and lobbying for both nonprofit organizations and corporations; foreign service; campaign consulting; public opinion and marketing research; journalism; and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Peace and Justice Studies Emphasis, B.A.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities (fulfilled by completing any foreign language 202G/2020 course)		4
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		27 Credits
POLS 1100	American National Government	3
POLS 2100	Introduction to International Relations	3
POLS 2200	Introduction to Comparative Politics	3
POLS 230G	Introduction to Political Theory	3
POLS 3000	Political Analysis	3
POLS 3250	Introduction to Law and Politics	3
POLS 3300	Introduction to Public Administration	3
POLS 3310	Introduction to Public Policy	3
POLS 4990	Senior Seminar (3.0)	
or POLS 480R	Internship	3
Elective Requirements:		36 Credits
Foreign Language Requirement: Complete 1010,1020, 2010, and 202G (one language)		12
Any courses numbered 1000 or higher. (9 credit hours must be upper division (3000-4000 level courses))		24

Emphasis Requirements:			21 Credits
PJST 3000	Introduction to Peace and Justice Studies		3
PJST 3400	Conflict Transformation Resolution and Sustainable Peace		3
PJST 4900	Peace and Justice Studies Capstone		3
Complete 12 credits from the following courses:			12
CNST 4795	Civil Rights and Civil Liberties (3.0)		
PJST 3020	The Ethics of War and Peace (3.0)		
PJST 3030	The Scientific Study of War and Peace (3.0)		
PJST 3040	Peace in Historical Context (3.0)		
PJST 3100	Introduction to Human Security (3.0)		
PJST 3200	Global Poverty Facts Causes and Solutions (3.0)		
PJST 3300	Community Development (3.0)		
PJST 4200	Advanced Poverty Studies: Global Problems and Policies (3.0)		
PJST 4300	Race Gender and Class in Peace and Justice (3.0)		
PJST 475R	Issues in Peace and Justice Studies (3.0)		
POLS 3100	Survey of International Terrorism (3.0)		
POLS 3650	Model United Nations (3.0)		
POLS 4500	International Conflict and Security (3.0)		
SOC 3460	Political Sociology (3.0)		

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of coursework from one language to include 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Political Science - Peace and Justice Studies Emphasis, B.A.

Careers

Careers:
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Peace and Justice Studies Emphasis, B.S.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:			35 Credits
ENGL 1010	Introduction to Writing		3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)		3
Complete one of the following:			3
MAT 1030	Quantitative Reasoning (3.0) (recommended)		
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)		
STAT 1040	Introduction to Statistics (3.0)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (4.0) (recommended for business, Education, Science, and Health Professions majors)		
MATH 1055	College Algebra with Preliminaries (5.0)		
MATH 1090	College Algebra for Business (3.0)		
Complete one of the following:			3
HIST 1700	American Civilization (3.0)		
HIST 2700	US History to 1877 (3.0)		
and HIST 2710	US History since 1877 (3.0)		
HIST 1740	US Economic History (3.0)		
POLS 1000	American Heritage (3.0)		
Complete the following:			
PHIL 2050	Ethics and Values		3
HLTH 1100	Personal Health and Wellness (2.0)		
or PES 1097	Fitness for Life		2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	Fine Arts		3
	Social/Behavioral Science		3
Discipline Core Requirements:			39 Credits
POLS 1100	American National Government		3
POLS 2100	Introduction to International Relations		3
POLS 2200	Introduction to Comparative Politics		3

History and Political Science

	POLS 230G	Introduction to Political Theory	3
	POLS 3000	Political Analysis	3
	POLS 3250	Introduction to Law and Politics	3
	POLS 3300	Introduction to Public Administration	3
	POLS 3310	Introduction to Public Policy	3
	POLS 4990	Senior Seminar (3.0)	
or	POLS 480R	Internship	3
Quantitative Requirement			
	POLS 3010	Political Analysis II	3
Complete 9 credits from the following courses:			9
	POLS 3020	Public Program Analysis (3.0)	
	POLS 3040	Survey Research and Design Methods (3.0)	
	POLS 3050	Experimental Methods in Political Science (3.0)	
	POLS 3060	Qualitative Analysis (3.0)	
	POLS 3070	Policy Analysis (3.0)	
Elective Requirements:			25 Credits
Any courses numbered 1000 or higher. (3 credit hours must be upper division (3000-4000 level courses))			25
Emphasis Requirements:			21 Credits
	PJST 3000	Introduction to Peace and Justice Studies	3
	PJST 3400	Conflict Transformation Resolution and Sustainable Peace	3
	PJST 4900	Peace and Justice Studies Capstone	3
Complete 12 credits from the following courses:			12
	CNST 4795	Civil Rights and Civil Liberties (3.0)	
	PJST 3020	The Ethics of War and Peace (3.0)	
	PJST 3030	The Scientific Study of War and Peace (3.0)	
	PJST 3040	Peace in Historical Context (3.0)	
	PJST 3100	Introduction to Human Security (3.0)	
	PJST 3200	Global Poverty Facts Causes and Solutions (3.0)	
	PJST 3300	Community Development (3.0)	
	PJST 4200	Advanced Poverty Studies:Global Problems and Policies (3.0)	
	PJST 4300	Race Gender and Class in Peace and Justice (3.0)	
	PJST 475R	Issues in Peace and Justice Studies (3.0)	
	POLS 3100	Survey of International Terrorism (3.0)	
	POLS 3650	Model United Nations (3.0)	
	POLS 4500	International Conflict and Security (3.0)	
	SOC 3460	Political Sociology (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
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Political Science - Peace and Justice Studies Emphasis, B.S. Careers

Careers:

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- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Public Administration and Public Policy Emphasis, B.A.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0) (recommended)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	

or	PES 1097	Fitness for Life	2
Distribution Courses:			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities (fulfilled by completing any foreign language 202G/2020 course)	4
		Fine Arts	3
		Social/Behavioral Science	3
Discipline Core Requirements:			27 Credits
	POLS 1100	American National Government	3
	POLS 2100	Introduction to International Relations	3
	POLS 2200	Introduction to Comparative Politics	3
	POLS 230G	Introduction to Political Theory	3
	POLS 3000	Political Analysis	3
	POLS 3250	Introduction to Law and Politics	3
	POLS 3300	Introduction to Public Administration	3
	POLS 3310	Introduction to Public Policy	3
	POLS 4990	Senior Seminar (3.0)	
or	POLS 480R	Internship	3
Elective Requirements:			36 Credits
		Foreign Language Requirement: Complete 1010, 1020, 2010, and 202G (one language)	12
		Any courses numbered 1000 or higher. (9 credit hours must be upper division (3000-4000 level courses))	24
Emphasis Requirements:			21 Credits
Complete 21 credits from the followings courses:			21
	AIST 3590	American Indian Law (3.0)	
	AIST 3600	American Indian Policy and Tribal Government (3.0)	
	ECON 2010	Microeconomics (3.0)	
	ECON 2020	Macroeconomics (3.0)	
	ECON 4150	Public Finance (3.0)	
	HR 3430	Introduction to Human Resource Management (3.0)	
	POLS 3020	Public Program Analysis (3.0)	
	POLS 3030	State and Local Government (3.0)	
	POLS 3040	Survey Research and Design Methods (3.0)	
	POLS 3070	Policy Analysis (3.0)	
	POLS 3320	Nonprofits and The Public Sector (3.0)	
	POLS 3340	Public Innovation (3.0)	
	POLS 3370	Leading Cities (3.0)	
	POLS 3380	Local Economic Development (3.0)	
	POLS 3390	Urban Planning (3.0)	
	POLS 420R	Issues and Topics in Political Science (3.0)	
	POLS 4250	Public Health Organization and Policy (3.0)	
	POLS 490R	Independent Study (1.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade lower than a C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 16 credit hours of coursework from one language to include 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Political Science - Public Administration and Public Policy Emphasis, B.A. Careers

<p>Careers:</p> <p>Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.</p>
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Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Public Administration and Public Policy Emphasis, B.S. Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3

History and Political Science

	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	Fine Arts		3
	Social/Behavioral Science		3
Discipline Core Requirements:			39 Credits
	POLS 1100	American National Government	3
	POLS 2100	Introduction to International Relations	3
	POLS 2200	Introduction to Comparative Politics	3
	POLS 230G	Introduction to Political Theory	3
	POLS 3000	Political Analysis	3
	POLS 3250	Introduction to Law and Politics	3
	POLS 3300	Introduction to Public Administration	3
	POLS 3310	Introduction to Public Policy	3
	POLS 4990	Senior Seminar (3.0)	
or	POLS 480R	Internship	3
Quantitative Requirement			
	POLS 3010	Political Analysis II	3
Complete 9 credits from the following courses:			9
	POLS 3020	Public Program Analysis (3.0)	
	POLS 3040	Survey Research and Design Methods (3.0)	
	POLS 3050	Experimental Methods in Political Science (3.0)	
	POLS 3060	Qualitative Analysis (3.0)	
	POLS 3070	Policy Analysis (3.0)	
Elective Requirements:			25 Credits
Any courses numbered 1000 or higher. (3 credit hours must be upper division (3000-4000 level courses))			25
Emphasis Requirements:			21 Credits
Complete 21 credits from the followings courses:			21
	AIST 3590	American Indian Law (3.0)	
	AIST 3600	American Indian Policy and Tribal Government (3.0)	
	ECON 2010	Microeconomics (3.0)	
	ECON 2020	Macroeconomics (3.0)	
	ECON 4150	Public Finance (3.0)	

	HR 3430	Introduction to Human Resource Management (3.0)	
	POLS 3020	Public Program Analysis (3.0)	
	POLS 3030	State and Local Government (3.0)	
	POLS 3040	Survey Research and Design Methods (3.0)	
	POLS 3070	Policy Analysis (3.0)	
	POLS 3320	Nonprofits and The Public Sector (3.0)	
	POLS 3340	Public Innovation (3.0)	
	POLS 3370	Leading Cities (3.0)	
	POLS 3380	Local Economic Development (3.0)	
	POLS 3390	Urban Planning (3.0)	
	POLS 420R	Issues and Topics in Political Science (3.0)	
	POLS 4250	Public Health Organization and Policy (3.0)	
	POLS 490R	Independent Study (1.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above, with no POLS course grade below C-.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Political Science - Public Administration and Public Policy Emphasis, B.S. Careers

Careers:
Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Political Science - Public Law and Political Philosophy Emphasis, B.A.

Requirements

Political science enjoys a central position among the social sciences. Aristotle characterized politics as the "queen of the sciences." It is a broad discipline that encompasses philosophical, historical and analytical studies of governments, politics and policies. Political science students learn not only the concepts, theories and methods associated with the discipline, but also gain the cognitive and presentational skills required of tomorrow's public and private leaders. At its core, politics is about building and maintaining communities at the local, state, national and international levels that enable citizens to live enriching and fulfilling lives. Political science students develop not only an understanding of those communities, but also the ability to influence them.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0) (recommended)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities (fulfilled by completing any foreign language 202G/2020 course)		4
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		27 Credits
POLS 1100	American National Government	3
POLS 2100	Introduction to International Relations	3
POLS 2200	Introduction to Comparative Politics	3
POLS 230G	Introduction to Political Theory	3
POLS 3000	Political Analysis	3
POLS 3250	Introduction to Law and Politics	3
POLS 3300	Introduction to Public Administration	3
POLS 3310	Introduction to Public Policy	3
POLS 4990	Senior Seminar (3.0)	
or POLS 480R	Internship	3
Elective Requirements:		36 Credits
Foreign Language Requirement: Complete 1010, 1020, 2010, and 202G (one language)		12
Any courses numbered 1000 or higher. (9 credit hours must be upper division (3000-4000 level courses))		24
Emphasis Requirements:		21 Credits

Complete 21 credits from the followings courses:		21
AIST 3590	American Indian Law (3.0)	
AIST 3600	American Indian Policy and Tribal Government	
CNST 2600	Comparative Constitutionalism (3.0)	
CNST 3870	Constitutional History to Plessy 1896 (3.0)	
CNST 3880	Constitutional History Since Plessy 1896 (3.0)	
CNST 4720	Foundations of American Constitutionalism (3.0)	
CNST 4730	Framing of the US Constitution (3.0)	
CNST 4790	US Constitution (3.0)	
CNST 4795	Civil Rights and Civil Liberties (3.0)	
CNST 490R	Issues and Topics in Constitutional Studies (3.0)	
CNST 491R	Independent Study (1.0)	
PJST 4300	Race Gender and Class in Peace and Justice (3.0)	
POLS 3480	Race in Politics (3.0)	
POLS 4500	International Conflict and Security (3.0)	
POLS 4610	International Law (3.0)	
ECON 4500	US Economic Development and History (3.0)	

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Political Science - Public Law and Political Philosophy Emphasis, B.A. Careers

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History and Political Science

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MATH 1050	College Algebra (4.0) (recommended for business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
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and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
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Discipline Core Requirements:		39 Credits
POLS 1100	American National Government	3
POLS 2100	Introduction to International Relations	3
POLS 2200	Introduction to Comparative Politics	3
POLS 230G	Introduction to Political Theory	3
POLS 3000	Political Analysis	3
POLS 3250	Introduction to Law and Politics	3
POLS 3300	Introduction to Public Administration	3
POLS 3310	Introduction to Public Policy	3
POLS 4990	Senior Seminar (3.0)	

or	POLS 480R	Internship	3
Quantitative Requirement			
	POLS 3010	Political Analysis II	3
Complete 9 credits from the following courses:			9
	POLS 3020	Public Program Analysis (3.0)	
	POLS 3040	Survey Research and Design Methods (3.0)	
	POLS 3050	Experimental Methods in Political Science (3.0)	
	POLS 3060	Qualitative Analysis (3.0)	
	POLS 3070	Policy Analysis (3.0)	
Elective Requirements:			25 Credits
	Any courses numbered 1000 or higher. (3 credit hours must be upper division (3000-4000 level courses))		25
Emphasis Requirements:			21 Credits
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	CNST 491R	Independent Study (1.0)	
	PJST 4300	Race Gender and Class in Peace and Justice (3.0)	
	POLS 3480	Race in Politics (3.0)	
	POLS 4500	International Conflict and Security (3.0)	
	POLS 4610	International Law (3.0)	
	ECON 4500	US Economic Development and History (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, 40 credits must be upper-division.
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Political Science - Public Law and Political Philosophy Emphasis, B.S.

Careers

Careers:

Political science students develop a versatility of skills that prepare them for a wide range of future career paths. The career possibilities for a political science student include: government service and public administration at the federal, state, and local levels, policy analysis and lobbying for both nonprofit organizations and corporations, foreign service, campaign consulting, public opinion and marketing

research, journalism, and secondary and postsecondary education. Political science is also the leading course of study for students preparing to enter law school.

Related Careers

- Managers, All Other
- Political Scientists
- Political Science Teachers, Postsecondary

Honors

Name:	Honors Program
Location:	LC 202 - LC 204
Telephone:	801-863-6262
Email:	kmcpherson@uvu.edu
Web Address:	uvu.edu/honors
Chair:	Kate McPherson

Mission Statement

The UVU Honors Program seeks out highly motivated and diverse students who exhibit curiosity, creativity, passion, initiative, and flexible thinking. Admitted students receive specialized academic and social opportunities beyond the typical collegiate experience. We promote student success through intensive advising, inclusive experiences, classes with outstanding faculty, and sustained peer-group interactions during cultural events, outdoor adventures, and research endeavors. Through imaginative and intellectual engagement, Honors students build on their personal, professional, and civic potential.

Eligibility

We encourage any student with curiosity, talent, and drive apply for admission to the Honors Program through a competitive application process that assesses them holistically based in part on two short admissions essays. The Honors Program welcomes applications each January and October. There is no minimum GPA or test score required to be admitted. We support students from all backgrounds seeking any face-to-face baccalaureate or associates degree.

Program Description

All students are welcome to apply. Most admitted students do have strong GPAs and ACT scores above 24. Honors offers both a lower-division entry point (for students with fewer than 50 college credits) and an upper-division entry point (more than 50 credits). The Honors Program can accommodate students from any on-campus major, using both General Education courses and majors courses at an Honors level to enhance students' undergraduate experience. **Please visit and apply at www.uvu.edu/honors.**

Program Benefits

- Challenging and engaging coursework
- Small class sizes
- Priority course registration
- Specialized advising and personalized mentoring
- Residential and academic scholarship opportunities
- Motivated collegiate peer group
- Access to cultural, outdoor, and academic events paid for by the Honors Program
- Access to the Honors Study Commons and compute
- Regular opportunities for undergraduate research
- Excellent graduate and professional school preparation
- Special recognition on transcript and diploma
- Specialized graduation regalia

Honors Scholarships

The Honors Program offers access to competitive, merit-based tuition scholarships to Utah residents. It also offers access to competitive merit-based housing scholarship at a designated apartment complex near campus and is available to both resident and non-resident students. Application to the program and for these scholarships occurs each October for Spring semester and each January for Fall semester. Students earn scholarships based on criteria that include academic achievement, creativity, innovative thinking, and intellectual potential. Two application essays serve as the primary method of assessing applicants.

Honors Courses

Through Honors, students complete a series of small classes with other highly motivated students, guided by faculty invested in their students' intellectual potential.

Students grapple with texts and ideas that have fascinated the world's great thinkers, writers, artists, and scientists as they gain the courage to try out new and challenging ideas, places, and experiences. Students use Honors Contracts in their major to complete required or elective courses at an Honors level. The Program concludes with each baccalaureate student completing a two-semester senior thesis or project that demonstrates commitment and skill within the student's selected major. Through Honors, highly motivated students can chart a customized program of study most suited to their post-baccalaureate plans.

Honors Graduation Requirements

Students must have a 3.4 cumulative GPA when applying for graduation to become an Honors Program Graduate.

Lower-Division Requirements for Associates Degrees: 20 credits

2 credits of Honors Colloquium: HONR 100R
3 credits of Ancient Legacies: HONR 2000
3 credits of Modern Legacies: HONR 2100
3 credits of Honors Ethics and Values: PHIL 205H
3 credits of General Education math or science, e.g., GEO 101H, BIOL 101H, MAT 103H
6 credits of any other General Education course at an Honors level, e.g. ENGL 201H, MUSC 101H

Lower-Division Requirement for Baccalaureate Degrees: 30 credits

2 credits of Honors Colloquium: HONR 100R
3 credits of Ancient Legacies: HONR 2000
3 credits of Modern Legacies: HONR 2100
3 credits of Honors Ethics and Values: PHIL 205H
3 credits of General Education math or science, e.g., GEO 101H, BIOL 101H, MAT 103H
6 credits of any other General Education course at an Honors level, e.g. ENGL 201H, MUSC 101H
6 credits of upper-division courses 3000+, completed at an Honors level within student's major using an Honors Contract
1 credit of Honors Interdisciplinary Seminar: HONR 300R
3 credits of Honors Thesis or Honors Project: HONR 498R or 499R

Upper-Division Requirements for Baccalaureate Degrees: 24 credits

2 credits of Honors Colloquium: HONR 100R
3 credits of Ancient Legacies: HONR 2000
3 credits of Modern Legacies: HONR 2100
12 credits of upper-division courses numbered 3000+, completed at an Honors level within student's major using an Honors Contract
1 credit of Honors Interdisciplinary Seminar: HONR 300R
3 credits of Honors Thesis or Honors Project: HONR 498R or 499R

Program Requirements

The Honors Program is designed around intensive, face-to-face interaction. Honors students typically complete at least one Honors course per semester; scholarship students are required to do so, but may petition for exceptions. In their first two semesters, all Honors students must complete Ancient Legacies (HONR 2000) and Modern Legacies (HONR 2100), as well as Honors Colloquium (HONR 100R). Course descriptions for the Legacies courses, which vary in focus each semester, are available under the Curriculum section of the Honors homepage. Colloquium is a 1-credit course that includes on-campus lectures on a wide-range of topics combined with cohort building activities emphasizing cultural, outdoor, and academic activities. These include trips to premier arts venues, guest lecturers from the academic and professional communities, outdoor recreation activities, and community or campus service projects

Honors Program Director: Kate McPherson, PhD

- **Telephone:** 801-863-8055
- **Email:** kmcpherson@uvu.edu

Professor McPherson directs all aspects of the program and mentors students at every level.

Honors Program Coordinator: Allen Hill

- **Telephone:** 801-863-6841
- **Email:** allen.hill@uvu.edu

Allen Hill assists with program operations, experiential learning trips, and advises Honors students with last names A-L.

Honors Program Coordinator: Tiffany Nez

- **Telephone:** 801-863-6223
- **Email:** tiffany.nez@uvu.edu

Tiffany Nez assists with program operations, Honors scholarships and housing, and advises Honors students with last names M-Z.

FACULTY

MCPHERSON, Kathryn R. *Professor*

Course Descriptions

Honors.....724

Information Systems and Technology

Name:	Information Systems & Technology
Location:	CS 601
Telephone:	801-863-8182
Email:	Cheryl.Levi@uvu.edu
Web Address:	uvu.edu/ist
Chair:	Keith Mulbery
Chair Email:	Keith.Mulbery@uvu.edu

Mission Statement

The Information Systems & Technology Department offers stackable degree programs to provide students with engaged learning opportunities to help students develop technical, communication, managerial, and lifelong -learning skills. The department's programs prepare students for opportunities in information systems, information technology and security, information management, and education.

Vision Statement

The Information Systems and Technology Department will be the premier source of skilled information systems, information technology and security, information management, and business education professionals in the Intermountain Mountain region. This vision will be accomplished by:

- Attracting well-qualified, motivated, and engaged students.
- Attracting and maintaining a skilled and highly trained, student-oriented faculty who are excellent teachers, applied scholars, and committed to serving the Institution.
- Providing educational programs that are regionally and nationally recognized within the educational and professional communities, and technologically relevant to potential employers of graduates

Information Systems & Technology

- **Department Chair:** Keith Mulbery
- **Office:** CS 601g
- **Telephone:** 801-863-8843
- **Email:** Keith.Mulbery@uvu.edu
- **Administrative Support:** Cheryl Levi
- **Office:** CS 601
- **Telephone:** 801-863-8182
- **Email:** Cheryl.Levi@uvu.edu

Advisors:

- Kyle Erickson
- **Office:** CS 635
- **Telephone:** 801-863-6597
- **Email:** Kyle.Erickson@uvu.edu
- Julie Harps
- **Office:** CS 635
- **Telephone:** 801-863-8403
- **Email:** JHarps@uvu.edu

Program Coordinators:

- **Business/Marketing Education:**
- Cyndi Krebs
- **Telephone:** 801-863-8281
- **Email:** cynthia.krebs@uvu.edu
- **Information Systems:**

- Kimberly Bartholomew
- **Telephone:** 801-863-8409
- **Email:** Daniel.McDonald@uvu.edu
- **Information Technology:**
- Paul Morrey
- Telephone: 801-863-6383
- **Email:** paul.morrey@uvu.edu

Programs

The Information Systems & Technology Department offers a variety of certificates and degrees, providing pathways into stackable academic credentials. Students can earn certificates and associate degrees on their path toward a bachelor's degree.

Certificates:

- Certificate of Completion Administrative Support
- Certificate of Completion Network Administration
- Certificate of Proficiency Information Technology
- Certificate of Proficiency Application Development
- Certificate of Proficiency Data Analytics
- Certificate of Proficiency Database Administration and Data Warehousing
- Certificate of Proficiency Healthcare Information Technology

Associate Degrees:

- AAS Administrative Information Support
- AAS Information Systems and Technology
- AS Administrative Information Management
- AS Information Systems and Technology

Bachelor of Science Degrees:

- BS Information Management
- BS Information Systems
- BS Information Technology
- BS Business/Marketing Education

The B.S. in Information Systems is accredited by the Computing Accreditation Commission of ABET, www.abet.org. The B.S. in Information Technology is accredited by the Computing Commission of ABET, www.abet.org.

Graduate Credentials:

- Master of Science in Cybersecurity
- Graduate Certificate in Cybersecurity

Faculty Credentials

Faculty have earned appropriate degrees, with over 55.6% holding doctorate degrees and 5.5% ABD. Faculty have worked full-time at UVU for an average of 12½ years, with 7 full-time faculty who have worked at UVU over 19 years. This does not include teaching experience at other institutions or other employment. Industry experts in the field are hired as adjuncts to teach a variety of courses.

Information Systems & Technology Advisory Board:

Vance Checketts, High-Tech COO, Dell EMC2; Josh Hogan, Manager, Enterprise Data Management, Nu Skin Enterprises; Stanley Huff, Chief Medical Informatics Officer, Intermountain Healthcare; Michael Stevens, Vice President of Technology, Permaplate; Scott Lemon, President, Wovyn and HumanXtensions L.L.C.; Lynne Yocom, ITS Fiber Optics Manager, State of Utah, Utah Dept. of Transportation.

Business/Marketing Education Advisory Board:

Sharon Codner, Teacher, Mountain View High School; Breckon Heywood, Business Education Specialist, Career & Technical Education, Utah State Board of Education; Brandon Jacobson, IT Education Specialist, Career & Technical Education, Utah State Board of Education; Josie Reynaud, Payson High School, Nebo School District

DEPARTMENT CHAIR

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- BARTHOLOMEW, Kimberly W.** *Associate Professor*
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- COLD, S. Jeff** *Associate Professor*
- CRANDALL, Kodey** *Lecturer*
- HAMDAN, Basil** *Assistant Professor*
- HICKMAN, George D.** *Associate Professor*
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- KHAN, Tahir M.** *Assistant Professor*
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- MULBERRY, Keith Raymond** *Professor*
- NORTH, Matthew A.** *Assistant Professor*
- ORMOND, Pat R.** *Professor*
- SMITH, Doreen** *Lecturer*

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Degrees & Programs

Administrative Information Management, A.S.

Requirements

The two-year pre-major AS in Administrative Information Management program provides training for students seeking to complete general education requirements and develop their skills and knowledge in basic computer applications, written business communication, and financial accounting. Graduates of this program obtain temporary employment and pursue a Bachelor's degree for more advanced training in Information Management.

Total Program Credits: 60

General Education Requirements:		36 Credits
	ENGL 1010 Introduction to Writing	3
	ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020 Intermediate Writing--Science and Technology	3
	MATH 1050 College Algebra	4
or	MATH 1055 College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
	HIST 2700 US History to 1877 (3.0)	
and	HIST 2710 US History since 1877 (3.0)	
	HIST 1700 American Civilization (3.0)	

	HIST 1740 US Economic History (3.0)	
	POLS 1000 American Heritage (3.0)	
	POLS 1100 American National Government (3.0)	
Complete the following:		
	PHIL 2050 Ethics and Values	3
	HLTH 1100 Personal Health and Wellness (2.0)	
or	PES 1097 Fitness for Life	2
Distribution Courses:		
	ECON 2020 Macroeconomics	3
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
Discipline Core Requirements:		21 Credits
	IM 1010 Basic Computer Applications	3
	IM 2300 Information Management Principles	3
	IM 2500 Graphic Applications (3.0)	3
	IM 2600 Spreadsheet Applications	3
	IM 2800 Integrated Software Projects	3
	ACC 2010 Financial Accounting	3
	MKTG 2200 Written Business Communication	3
Elective Requirements:		3 Credits
	Complete 3 credits from department pre-approved electives; see advisor for more information.	3

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline and elective courses with no grade lower than a C-.
3. Residency hours--minimum of 20 credit hours through attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Administrative Information Management, A.S.

Careers

Careers:
Entry-level Administrative Support, Entry-Level Clerical Support, Front Office Assistant, Office Assistant, Data-Entry Operator, Administrative Assistant

Related Careers

- Data Entry Keyers

Administrative Information Support, A.A.S.

Requirements

Every industry relies heavily on competent, qualified, and professional office staff. The two-year AAS in Administrative Information Support program provides training for students seeking to develop their skills and knowledge of office administration and office systems. The program core focuses on word processing, presentations, graphics, spreadsheet, and database applications, as well as written and oral business communication skills, office procedures, and basic accounting skills.

Total Program Credits: 63

Information Systems and Technology

General Education Requirements:		18 Credits	
ENGLISH			
	ENGL 1010	Introduction to Writing	3
MATHEMATICS			
Complete one of the following		4	
	MAT 1010	Intermediate Algebra (4.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE			
	Any approved Humanities/Fine Arts/Foreign Language Distribution		3
SOCIAL AND BEHAVIORAL SCIENCE			
	Any approved Social and Behavioral Science Distribution (ECON 2010 or ECON 2020 recommended for students who plan to pursue BS Information Management)		3
BIOLOGY OR PHYSICAL SCIENCE			
	Any approved Biology or Physical Science Distribution		3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Discipline Core Requirements:		36 Credits	
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2300	Information Management Principles	3
	IM 2500	Graphic Applications	3
	IM 2600	Spreadsheet Applications	3
	IM 2800	Integrated Software Projects	3
	IM 3700	Database Applications	3
	INFO 2420	Web Application Design	3
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	FIN 1060	Personal Finance	3

	MKTG 2200	Written Business Communication	3
Elective Requirements:		9 Credits	
Complete 9 credits from the following department pre-approved electives:		9	
	ACC 1150	Fundamentals of Business Math (3.0)	
	MGMT 2110	Interpersonal Communication (3.0)	
	INFO 1120	Information Systems and Technology Fundamentals (3.0)	
	INFO 1200	Computer Programming I for IS IT (3.0)	
	INFO 2410	Database Fundamentals (3.0)	
	INFO 2420	Web Application Design (3.0)	
	IT 1700	Cybersecurity Essentials (3.0)	

Graduation Requirements:

1. Minimum 63 credits to graduate.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
3. A minimum keyboarding skill of 40 net words per minute is required for graduation.
4. Residency hours--minimum of 20 credit hours through attendance at UVU.
5. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Note: Potential 4-year students need to take MATH 1050 as their MATHEMATICS Distribution.

Administrative Information Support, A.A.S. Careers

Careers:
Administrative Assistant, Administrative Secretary, Office Assistant, Front Office Assistant

Related Careers

- Data Entry Keyers

Information Systems and Technology, A.A.S. Requirements

The two-year AAS in Information Systems and Technology is designed to help students develop job-ready computer skills to meet today's industry needs. Students complete a foundational core in programming, database, web application design, data communication, and networking. After that, students select a specialization in either Information Systems or Information Technology to complete a focused set of courses to obtain more in-depth knowledge and skills for a variety of computer-related jobs. If planned carefully with an advisor, this program provides a smooth, stackable pathway to the B.S. in Information Systems degree or the B.S. in Information Technology degree at UVU.

Total Program Credits: 65

General Education Requirements:	17 Credits
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ENGLISH			
	ENGL 1010	Introduction to Writing	3
MATHEMATICS			
	MATH 1050	College Algebra	4
or	Any higher Mathematics Course		
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE			
	Any approved Humanities, Fine Arts, or Foreign Language Distribution course. (ENGL 2310 recommended for BS in Information Technology degree future students.)		3
SOCIAL AND BEHAVIORAL SCIENCE			
	Social/Behavioral Science (CJ 1010 recommended for BS Information Technology degree future students with the Computer Forensics and Security emphasis. ECON 2020 recommended for BS Information Systems degree future students.)		3
BIOLOGY OR PHYSICAL SCIENCE			
	(PHYS 2010 and PHYS 2015 recommended for BS Information Technology degree future students; any approved Biology or Physical Science Distribution Course for BS Information Systems degree future students.)		3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			
	Any approved Physical Education, Health, Safety or Environment Course (HLTH 1100 or PES 1097 recommended for BS in Information Technology future students or Information Systems degree future students.)		1
Discipline Core Requirements:			21 Credits
Written Communication Requirement:			
	ENGL 2010	Intermediate Writing-- Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Math Requirement:			3
	STAT 2050	Introduction to Statistical Methods (4.0)	
or	MGMT 2340	Business Statistics I (3.0)	
Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3

	INFO 2410	Database Fundamentals	3
	IT 2600	Data Communication Fundamentals	3
or	CS 2600	Computer Networks I (3.0)	
	IT 2700	Information Security Fundamentals	3
Elective Requirements:			27 credits
Choose 27 credits from either the Information Systems group or the Information Technology group. See department advisor to select classes if plan to obtain BS in IT degree in the future.			27
INFORMATION SYSTEMS			
	ACC 2010	Financial Accounting (3.0)	
	ACC 2020	Managerial Accounting (3.0)	
	GEOG 3600	Introduction to Geographic Information Systems (4.0)	
	IM 2600	Spreadsheet Applications (3.0)	
	INFO 2200	Computer Programming II for IS/IT (3.0)	
	INFO 2420	Web Application Design (3.0)	
	INFO 3130	Introduction to Applied Data Analytics (3.0)	
	INFO 3410	Database Systems and Warehousing (3.0)	
	INFO 3420	Web Systems Development (3.0)	
	INFO 3422	PHP Web Application Development (3.0)	
	INFO 3700	Health Informatics Fundamentals (3.0)	
	INFO 3750	Healthcare Information Systems Applications (3.0)	
	MKTG 2200	Written Business Communication (3.0)	
	MGMT 3000	Organizational Behavior (3.0)	
INFORMATION TECHNOLOGY			
	INFO 2200	Computer Programming II for IS/IT (3.0)	

Information Systems and Technology

	INFO 2420	Web Application Design (3.0)	
	INFO 3410	Database Systems and Warehousing (3.0)	
	INFO 3420	Web Systems Development (3.0)	
	INFO 3422	PHP Web Application Development (3.0)	
	IT 1510	Introduction to System Administration--Linux/UNIX (3.0)	
	IT 1600	Computer Architecture and Systems Software (3.0)	
	IT 2400	Voice and Data Cabling Fundamentals (3.0)	
	IT 2530	Introduction to System Administration--Windows Client (3.0)	
	IT 2800	Computer Forensic Fundamentals (3.0)	
	IT 290R	Current Topics in Information Technology (1.0)	
	IT 3510	Advanced System Administration--Linux/UNIX (3.0)	
	IT 3530	Advanced System Administration--Windows Server (3.0)	
	IT 3540	Mac OS and Server Support (3.0)	
	IT 3600	Internetworking and Router Management (3.0)	
	IT 3650	Information Storage and Management (3.0)	
IT students need to take 6 credits in approved domain (see list of approved courses on the BS IT degree). Recommended to take 6 credits in the domain as electives if plan to complete BS in IT degree. If plan to obtain BS in Information Technology with Computer Forensics & Security emphasis, take CJ 1330 and CJ 2350 as domain classes.			

Graduation Requirements:

1. Completion of a minimum of 65 semester credits.
2. Overall grade point average of 2.0 (C) or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-."
3. Residency hours: minimum of 20 credit hours through attendance at UVU.

4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Information Systems and Technology, A.A.S. Careers

Careers:
Computer Support Specialist, Web Developer, Assistant Information Systems Analyst, Systems Specialist, IT Support, Programmer, Network Information Technician, QA Software Tester

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Systems and Technology, A.S. Requirements

The two-year pre-major AS in Information Systems and Technology program provides training for students seeking to complete general education requirements and develop foundational skills in programming, database, web application design, system administration, computer architecture, data communication, and security. Graduates of this program obtain temporary employment and pursue a Bachelor of Science in Information Systems or Information Technology for more advanced education.

Total Program Credits: 60

General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1050	College Algebra	4
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Social/Behavioral Science Distribution		3
	Biology Distribution		3
	Physical Science Distribution		3
	An Additional Biology or Physical Science Course		3
	Fine Arts Distribution		3
	Humanities Distribution		3

Discipline Core Requirements:			24 Credits
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3
or	CS 1400	Fundamentals of Programming (3.0)	
	INFO 2410	Database Fundamentals	3
	INFO 2420	Web Application Design	3
	IT 1510	Introduction to System Administration--Linux/UNIX	3
	IT 1600	Computer Architecture and Systems Software	3
	IT 2600	Data Communication Fundamentals	3
or	CS 2600	Computer Networks I (3.0)	
	IT 2700	Information Security Fundamentals	3

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-."
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Information Systems and Technology, A.S. Careers

Careers:
Entry-level positions, such as Help Desk, Web Developer, QA Software Tester, Network Support Technician

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Administrative Support, Certificate of Completion

Requirements

The one-year certificate in Administrative Support program provides training in basic computer literacy and applications, such as word processing, presentations, graphics, and spreadsheet applications. In addition, students build skills in interpersonal and written business communication.

Total Program Credits: 30

Discipline Core Requirements:			30 Credits
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2300	Information Management Principles	3
	IM 2500	Graphic Applications	3
	IM 2600	Spreadsheet Applications	3
	IM 2800	Integrated Software Projects	3

	ACC 1150	Fundamentals of Business Math (3.0)	
or	ACC 2010	Financial Accounting	3
	MGMT 2110	Interpersonal Communication	3
	MKTG 2200	Written Business Communication	3
	FIN 1060	Personal Finance	3

Graduation Requirements:

1. Completion of a minimum of 30 credits.
2. Overall GPA of 2.0 or higher with a minimum grade of "C-."
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. A minimum keyboarding skill of 40 net words per minute is required for graduation.
5. Students are responsible for completing all prerequisite courses.

Note: Potential Administrative Information Support and BS in Information Management students need to take ACC 2010.

Administrative Support, Certificate of Completion Careers

Careers:
Receptionist, Data-entry Operator, Office Support, Information Clerk, Entry-Level Administrative Assistant

Related Careers

- Executive Secretaries and Executive Administrative Assistants
- Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

Application Development, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Application Development allows employees who do not have a degree to obtain a credential to advance their career prospects. The certificate also allows those individuals who earned degrees outside the computing fields to obtain a credential in Application Development to increase their value to their current or future employers.

Total Program Credits: 18

Matriculation Requirements:			
Web Design Recommended Prerequisite			
<ul style="list-style-type: none"> • INFO 2420 Web Application Design (3.0) • or DGM 2120 Web Essentials (3.0) • Other INFO or IT Prerequisites (depending on elective) 			
Discipline Core Requirements:			15 Credits
	INFO 1200	Computer Programming I for IS/IT	3
or	CS 1400	Fundamentals of Programming (3.0)	
	INFO 2410	Database Fundamentals	3
	INFO 3420	Web Systems Development	3
	INFO 3422	PHP Web Application Development	3
	INFO 4420	Mobile Business Application Development	3
Elective Requirements:			3 Credits
Choose 3 credits from the following courses:			3
	INFO 2200	Computer Programming II for IS/IT (3.0)	
	INFO 3426	Web Content Management Systems Site Development (3.0)	

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INFO 4422	Advanced PHP Web Application Development (3.0)	
INFO 4425	Web Application Security (3.0)	

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Application Development, Certificate of Proficiency Careers

Careers:
Graduates are employed in entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers

- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software

Data Analytics, Certificate of Proficiency

Requirements

A Certificate of Proficiency in Data Analytics allows employees who do not have a degree to obtain a credential to advance their career prospects. A certificate also allows those individuals who earned degrees outside the computing fields to obtain a credential in Data Analytics to increase their value to their current or future employers.

Total Program Credits: 18

Matriculation Requirements:		
Prerequisites may be fulfilled through successful completion of courses listed or by successfully passing challenge exams in areas where challenge exams exist.		
<ul style="list-style-type: none"> • STAT 2050 Introduction to Statistical Methods (4.0) or • MGMT 2340 Business Statistics I (3.0) or • STAT 1040 Introduction to Statistics (3.0) or • STAT 1045 Introduction to Statistics with Algebra (3.0) or • STAT 2040 Principles of Statistics (3.0) or • BESC 3010 Statistics for the Behavioral Sciences • Other CS, DGM, IT, or Marketing Prerequisites (depending on elective) 		
Discipline Core Requirements:		15 Credits
INFO 2410	Database Fundamentals	3
INFO 3130	Introduction to Applied Data Analytics	3
INFO 3410	Database Systems and Warehousing	3
INFO 4120	Business Intelligence Systems	3
INFO 4130	Data Science and Big Data Analytics	3
Elective Requirements:		3 Credits
Choose 3 credits from the following courses:		3
CS 4620	Data Mining (3.0)	
DGM 3750	Media Traffic and Analytics (3.0)	
INFO 4135	Data Security Analytics (3.0)	
INFO 4410	Database Administration (3.0)	
MKTG 3690	Advanced Digital Marketing and Analytics (3.0)	
MKTG 4610	Sales Analytics (3.0)	
STAT 4100	Design of Experiment (3.0)	

STAT 4200	Survey Sampling (3.0)	
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Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Data Analytics, Certificate of Proficiency Careers

Careers:
Graduates are employed in entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers

- Chief Executives
- General and Operations Managers
- Operations Research Analysts
- Business Teachers, Postsecondary

Database Administration and Data Warehousing, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Database Administration and Data Warehousing allows employees who do not have a degree to obtain a credential to advance their career prospects. It also allows those individuals who earned degrees outside the computing fields to obtain a credential in Database Administration and Data Warehousing to increase their value to their current or future employers.

Total Program Credits: 18

Matriculation Requirements:		
Prerequisites may be fulfilled through successful completion of courses listed or by successfully passing challenge exams in areas where challenge exams exist. Statistics Prerequisite (if select INFO 3130 as elective)		
<ul style="list-style-type: none"> • STAT 2050 Introduction to Statistical Methods (4.0) or • MGMT 2340 Business Statistics I (3.0) or • STAT 1040 Introduction to Statistics (3.0) or • STAT 1045 Introduction to Statistics with Algebra (3.0) or • STAT 2040 Principles of Statistics (3.0) or • BESC 3010 Statistics for the Behavioral Sciences 		
Database Prerequisite (if select CS 3720 and CS 4100 as electives)		
<ul style="list-style-type: none"> • CS 3520 Database Theory (3.0) or • CS 3250 Java Software Development (3.0) or • CS 3260 CsharpNET Software Development (3.0) 		
Discipline Core Requirements:		12 Credits
INFO 2410	Database Fundamentals	3
INFO 3410	Database Systems and Warehousing	3
INFO 4410	Database Administration	3
INFO 4415	Database Security and Auditing	3
Elective Requirements:		6 Credits
Choose 6 credits from the following courses:		6
INFO 3130	Introduction to Applied Data Analytics (3.0)	
INFO 4120	Business Intelligence Systems (3.0)	
CS 3270	Database Programming (3.0)	

CS 4100	Database Management System Construction (3.0)
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Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Database Administration and Data Warehousing, Certificate of Proficiency Careers

Careers:
Graduates are employed in entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers

- Database Administrators

Healthcare Information Technology, Certificate of Proficiency

Requirements

A Certificate of Proficiency in Healthcare Information Technology allows non-students who do not have a degree to obtain a credential to advance their career prospects. A certificate also allows those individuals who earned degrees outside the computing fields to obtain a credential in healthcare information technology in order to increase their value to their current or future employers.

Total Program Credits: 18

Matriculation Requirements:	
Prerequisites may be fulfilled through successful completion of courses listed or by successfully passing challenge exams in areas where challenge exams exist. Statistics Prerequisite (if select INFO 3130 as elective)	
<ul style="list-style-type: none"> • STAT 2050 Introduction to Statistical Methods (4.0) or • MGMT 2340 Business Statistics I (3.0) or • STAT 1040 Introduction to Statistics (3.0) or • STAT 1045 Introduction to Statistics with Algebra (3.0) or • STAT 2040 Principles of Statistics (3.0) or • BESS 3010 Statistics for the Behavioral Sciences • Other IT or Health courses (depending on elective) 	
Discipline Core Requirements:	15 Credits
Complete the following:	
INFO 1200	Computer Programming I for IS/IT 3
or CS 1400	Fundamentals of Programming
INFO 2410	Database Fundamentals 3
INFO 3700	Health Informatics Fundamentals 3
INFO 3750	Healthcare Information Systems Applications 3
INFO 4700	Healthcare Information Systems Management 3
Elective Requirements:	3 Credits
Choose 3 credits from the following courses:	
HLTH 3200	Principles of Community Health (3.0)
HLTH 4250	Health Services Organization and Policy (3.0)
HLTH 482R	Community Health Internship (1.0)
INFO 3130	Introduction to Applied Data Analytics (3.0)

INFO 3410	Database Systems and Warehousing (3.0)
INFO 481R	Internship (Internship must relate to HIT) (1.0)
IT 2700	Information Security Fundamentals (3.0)

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Healthcare Information Technology, Certificate of Proficiency Careers

Careers:
Graduates are employed in entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers

- Medical and Health Services Managers

Information Technology, Certificate of Proficiency

Requirements

The Certificate of Proficiency in Information Technology provides students with training in basic computer applications and introductory coursework in the field of Information Technology. The program is designed to get people employed in entry-level IT positions. Students can select from a variety of introductory IT courses to build knowledge and skill in computer programming, database fundamentals, Linux and Windows system administration, computer architecture, cabling, networking, and security.

Total Program Credits: 18

Discipline Core Requirements:		12 Credits
ENGL 1010	Introduction to Writing	3
INFO 1120	Information Systems and Technology Fundamentals (3.0)	3
IT 1510	Introduction to System Administration--Linux/UNIX (3.0)	3
IT 1600	Computer Architecture and Systems Software (3.0)	3
Elective Requirements:		6 Credits
Complete 6 credits from the following:		6
INFO 1200	Computer Programming I for IS/IT (recommended) (3.0)	
or CS 1400	Fundamentals of Programming (3.0)	
INFO 2410	Database Fundamentals (3.0)	
IT 2400	Voice and Data Cabling Fundamentals (3.0)	
IT 2530	Introduction to System Administration--Windows Client (3.0)	
IT 2600	Data Communication Fundamentals (3.0)	
or CS 2600	Computer Networks I (3.0)	
IT 2700	Information Security Fundamentals (3.0)	
IT 2800	Computer Forensic Fundamentals (3.0)	
IT 290R	Current Topics in Information Technology (1.0)	

Information Systems and Technology

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 5 credit hours through course attendance at UVU.

Information Technology, Certificate of Proficiency Careers

Careers:
Graduates are employed in entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

Network Administration, Certificate of Completion

Requirements

The Certificate of Completion in Network Administration provides students with training in server administration, computer architecture, and networking. Students select from a variety of courses in cabling, Windows system administration, router management, information security, computer forensics, and Linux system administration.

Total Program Credits: 31

Discipline Core Requirements:		25 Credits
Complete the following:		
	INFO 1120	Information Systems and Technology Fundamentals 3
	INFO 1200	Computer Programming I for IS/IT 3
or	CS 1400	Fundamentals of Programming (3.0)
	IT 1510	Introduction to System Administration--Linux/UNIX 3
	IT 1600	Computer Architecture and Systems Software 3
	INFO 2410	Database Fundamentals 3
	IT 2600	Data Communication Fundamentals 3
or	CS 2600	Computer Networks I (3.0)
Communication Requirement:		
	ENGL 1010	Introduction to Writing 3
Computation Requirement:		
	MAT 1010	Intermediate Algebra 4
	MATH 1050	College Algebra (4.0)
	MATH 1055	College Algebra with Preliminaries (5.0)
Elective Requirements:		6 Credits
Choose 6 credits from the following courses :		6
	IT 2400	Voice and Data Cabling Fundamentals (3.0)
	IT 2530	Introduction to System Administration--Windows Client (3.0)
	IT 2700	Information Security Fundamentals (3.0)
	IT 2800	Computer Forensic Fundamentals (3.0)

IT 3510	Advanced System Administration--Linux/UNIX (3.0)
IT 3530	Advanced System Administration--Windows Server (3.0)

Graduation Requirements:

1. Completion of a minimum of 31 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Network Administration, Certificate of Completion Careers

Careers:
System Technician, Network Support Technician, Computer Support Specialist, Systems Specialist

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

Applied Data Analytics, Minor Requirements

Total Program Credits: 18

Discipline Core Requirements:		6 Credits
	INFO 2410	Database Fundamentals 3
	INFO 3130	Introduction to Applied Data Analytics 3
Elective Requirements:		12 Credits
Choose 12 hours from the following:		12
	INFO 3410	Database Systems and Warehousing (3.0)
	INFO 4120	Business Intelligence Systems (3.0)
	INFO 4130	Data Science and Big Data Analytics (3.0)
	MKTG 3680	Marketing with Social Media (3.0)
	MKTG 3690	Advanced Digital Marketing and Analytics (3.0)
	MKTG 4610	Sales Analytics (3.0)
	STAT 4100	Design of Experiment (3.0)
	STAT 4200	Survey Sampling (3.0)
	STAT 4400	Multivariate Analysis (3.0)
	STAT 4500	Nonparametric Statistics (3.0)
	DGM 3750	Media Traffic and Analytics (3.0)
	CS 4620	Data Mining (3.0)
	Other advisor-approved elective.	

Applied Data Analytics, Minor Careers

Related Careers

- Chief Executives
- General and Operations Managers
- Operations Research Analysts

- Business Teachers, Postsecondary

Business Education - Basic Business Core Emphasis, Minor

Requirements

This minor provides students or teachers who have an Educator License in the State of Utah with the coursework necessary to obtain a Business Education Basic Core endorsement. This endorsement enables recipients to teach Accounting, Banking and Finance, Business Communication, Business Law, Business Management, Business Math, Economic, Entrepreneurship, General Financial Literacy, and Leadership Principles.

Total Program Credits: 24

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Minimum ACT scores. 2. GPA of 2.75 or higher. 3. A CAPP written exam. 4. An interview directed by the Secondary Teacher Education Selection and Retention Committee. 5. Must be accepted into a Secondary Education major program 		
Discipline Core Requirements:		3 Credits
BMED 4200	Methods of Teaching Business/Marketing/ Digital Technology	3
Emphasis Requirements:		21 Credits
ACC 2010	Financial Accounting	3
LEGL 3000	Business Law	3
FIN 1060	Personal Finance	3
ECON 2010	Microeconomics	3
MGMT 3000	Organizational Behavior	3
FIN 3100	Principles of Finance	3
MKTG 3600	Principles of Marketing	3

Graduation Requirements:

1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.

Notes:

Students must pass a criminal background check at the beginning of the junior year.

Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.

Students will teach at least one computer technology course during the student teaching experience.

Business Education - Basic Business Core Emphasis, Minor Careers

Careers:
Secondary Education teacher with Minor in Basic Business Core

Related Careers

- Business Teachers, Postsecondary
- Education Teachers, Postsecondary
- Vocational Education Teachers, Postsecondary
- Career/Technical Education Teachers, Middle School
- Career/Technical Education Teachers, Secondary School

Business Education - Business Information Technology Emphasis, Minor

Requirements

This minor provides students or teachers who have an Educator License in the State of Utah with the coursework necessary to obtain an endorsement in the Business Information Technology core. This endorsement enables recipients to teach Business Web Page Design, Computer Technology, Desktop Publishing, Digital Business Applications, Social Media Marketing, Advertising and Promotion, and Word Processing.

Total Program Credits: 21

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Minimum ACT scores. 2. GPA of 2.75 or higher. 3. A CAPP written exam. 4. An interview directed by the Secondary Teacher Education Selection and Retention Committee. 5. Must be accepted into a Secondary Education major program 		
Discipline Core Requirements:		3 Credits
BMED 4200	Methods of Teaching Business/Marketing/ Digital Technology	3
Emphasis Requirements:		15 Credits
IM 1010	Basic Computer Applications	3
IM 2010	Business Computer Proficiency	3
or IM 2600	Spreadsheet Applications	3
IM 2500	Graphic Applications	3
IM 3500	Desktop Publishing Applications	3
INFO 2420	Web Application Design	3
Emphasis Requirements:		3 Credits
Complete 3 credits from department pre-approved electives; see advisor for details.		3

Graduation Requirements:

1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.

Notes:

Students must pass a criminal background check at the beginning of the junior year.

Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.

Students will teach at least one computer technology course during the student teaching experience.

Business Education - Business Information Technology Emphasis, Minor Careers

Careers:
Secondary Education teacher with Minor in Business Information Technology

Related Careers

- Business Teachers, Postsecondary
- Education Teachers, Postsecondary
- Vocational Education Teachers, Postsecondary
- Career/Technical Education Teachers, Middle School
- Career/Technical Education Teachers, Secondary School

Business Education - Business and Marketing Education (6-8) Emphasis, Minor

Requirements

This minor provides students or teachers who have an Educator License in the State of Utah with the coursework necessary to obtain a Business Education Marketing endorsement. This endorsement enables recipients to teach Customer Service, Fashion Merchandising, Marketing I and II, Real Estate, Retailing, Retailing Management, Sports and Entertainment Marketing, and Travel and Tourism.

Total Program Credits: 21

Matriculation Requirements:			
<ol style="list-style-type: none"> Minimum ACT scores. GPA of 2.75 or higher. A CAPP written exam. An interview directed by the Secondary Teacher Education Selection and Retention Committee. Must be accepted into a Secondary Education major program. 			
Discipline Core Requirements:			3 Credits
	BMED 4200	Methods of Teaching Business/Marketing/Digital Technology	3
Emphasis Requirements:			18 Credits
	ACC 2010	Financial Accounting	3
or	ECON 2010	Microeconomics (3.0)	
or	LEGL 3000	Business Law (3.0)	
or	MKTG 3600	Principles of Marketing (3.0)	
	IM 2500	Graphic Applications	3
or	IM 3500	Desktop Publishing Applications (3.0)	
	INFO 2420	Web Application Design	3
or	INFO 1200	Computer Programming I for IS/IT (3.0)	
	IM 1010	Basic Computer Applications	3
	IM 2010	Business Computer Proficiency	3
	Department Approved Elective		3

Graduation Requirements:

- Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
- Students are responsible for completing all prerequisite courses.

Notes:

Students must pass a criminal background check at the beginning of the junior year.

Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.

Students will teach at least one computer technology course during the student teaching experience.

Business Education - Business and Marketing Education (6-8) Emphasis, Minor

Careers

Careers:
Secondary Education teacher with Minor in Marketing

Related Careers

- Business Teachers, Postsecondary
- Education Teachers, Postsecondary

- Vocational Education Teachers, Postsecondary
- Career/Technical Education Teachers, Middle School
- Career/Technical Education Teachers, Secondary School

Business Education - Information Technology, Minor

Requirements

This minor provides students or teachers who have an Educator License in the State of Utah with the coursework necessary to obtain an endorsement in Information Technology Education—Multimedia. This endorsement enables recipients to teach Digital Media I, Digital Media II, and 3D Graphics and Animation. In addition to coursework there are other requirements imposed by the State, so students will need to complete additional work to receive this endorsement.

Total Program Credits: 20

Matriculation Requirements:			
<ol style="list-style-type: none"> Minimum ACT scores. GPA of 2.75 or higher. A CAPP written exam. An interview directed by the Secondary Teacher Education Selection and Retention Committee. Must be accepted into a Secondary Education major program. 			
Discipline Core Requirements:			3 Credits
	BMED 4200	Methods of Teaching Business/Marketing/Digital Technology	3
Emphasis Requirements:			3 Credits
	INFO 1120	Information Systems and Technology Fundamentals	3
Emphasis Elective Requirements:			12 Credits
Complete 12 credits from the following courses. To be eligible for an endorsement in any of the following areas, include those courses and see adviser, as other requirements are required for USOE-CTE endorsement.			12
Computer Science			
	CS 1030	Foundations of Computer Science (3.0)	
	CS 1400	Fundamentals of Programming (3.0)	
	CS 1410	Object-Oriented Programming (3.0)	
Exploring CS			
	CS 1030	Foundations of Computer Science (3.0)	
	IT 290R	Current Topics in Information Technology Note: Prepare for and pass Certiport IC3 certification (1.0)	
Introduction to Information Technology			
	DGM 1110	Digital Media Essentials I (4.0)	
	CS 1030	Foundations of Computer Science (3.0)	
	INFO 1200	Computer Programming I for IS/IT (3.0)	
Multimedia			
	DGM 1110	Digital Media Essentials I (4.0)	
	DGM 2210	3D Modeling and Animation Essentials (4.0)	
	DGM 2110	Digital Motion Picture Essentials (3.0)	
or	DGM 2130	Digital Audio Essentials (3.0)	
	DGM 2120	Web Essentials (3.0)	
or	INFO 2420	Web Application Design (3.0)	
Network+			

IT 2600	Data Communication Fundamentals (3.0)	
IT 290R	Current Topics in Information Technology Note: Prepare and pass CompTIA Network+ exam (1.0)	
Web Development		
INFO 2420	Web Application Design (3.0)	
INFO 3420	Web Systems Development (3.0)	
INFO 3422	PHP Web Application Development (3.0)	

Graduation Requirements:

1. Overall grade point average 2.75 or above with no grade lower than a B- in all discipline and specialty core courses.
2. Students are responsible for completing all prerequisite courses.

Notes:

Students must pass a criminal background check at the beginning of the junior year.

Participation in Phi Beta Lambda (PBL) or Delta Epsilon Chi (DEX) is recommended for one semester.

Students will teach at least one computer technology course during the student teaching experience.

Business Education - Information Technology, Minor Careers

Careers:
Secondary Education teacher with Minor in Multimedia

Related Careers

- Business Teachers, Postsecondary
- Education Teachers, Postsecondary
- Vocational Education Teachers, Postsecondary
- Career/Technical Education Teachers, Middle School
- Career/Technical Education Teachers, Secondary School

Business Information Technology, Minor Requirements

Requirements

The Minor in Business Information Technology gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework.

Total Program Credits: 21

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		18 Credits
IM 1010	Basic Computer Applications	3
IM 2100	Document Processing Applications	3
IM 2500	Graphic Applications	3
or IM 3500	Desktop Publishing Applications (3.0)	
IM 2600	Spreadsheet Applications	3
IM 2800	Integrated Software Projects	3
IM 3700	Database Applications	3
INFO 2420	Web Application Design	3
Elective Requirements:		3 Credits

Select 3 credits from department pre-approved courses; see advisor for more information.	3
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Graduation Requirements:

1. Overall grade point average of 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
2. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Business Information Technology, Minor Careers

Careers:
Graduates are qualified for entry-level positions in the IT field, such as Help Desk Technician, Support Technician, Computer Sales Person, Computer Customer Support Specialists, and Computer Technician.

Related Careers

- Audio-Visual and Multimedia Collections Specialists

Information Systems and Technology, Minor Requirements

Requirements

The Minor in Information Systems gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework.

Total Program Credits: 21

Discipline Core Requirements:		12 Credits
Prerequisite:		
INFO 1120	Information Systems and Technology Fundamentals (3.0)	
Complete the following:		
INFO 1200	Computer Programming I for IS/IT	3
INFO 2410	Database Fundamentals	3
IT 1600	Computer Architecture and Systems Software	3
IT 2600	Data Communication Fundamentals	3
Elective Requirements:		9 Credits
Complete 9.0 credits from the following, 6 credits of which must be upper division:		
INFO 2200	Computer Programming II for IS/IT (3.0)	
INFO 2420	Web Application Design (3.0)	
INFO 3120	Management Information Systems (3.0)	
INFO 3410	Database Systems and Warehousing (3.0)	
INFO 3420	Web Systems Development (3.0)	
INFO 3430	Systems Analysis and Design (3.0)	
INFO 3700	Health Informatics Fundamentals (3.0)	
INFO 4120	Business Intelligence Systems (3.0)	
IT 1510	Introduction to System Administration--Linux/UNIX (3.0)	
IT 2530	Introduction to System Administration--Windows Client (3.0)	
IT 2700	Information Security Fundamentals (3.0)	
IT 2800	Computer Forensic Fundamentals (3.0)	
IT 3510	Advanced System Administration--Linux/UNIX (3.0)	

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IT 3530	Advanced System Administration--Windows Server (3.0)	
IT 3600	Internetworking and Router Management (3.0)	
IT 3700	Information Security--Network Defense and Countermeasures (3.0)	

Graduation Requirements:

To fill the requirements for an information systems and technology minor, students must have no course grade lower than C- in any of the INFO or IT courses required for the minor

Information Systems and Technology, Minor Careers

Careers:
Entry-level positions, such as Help Desk, Web Developer, QA Software Tester, Network Support Technician

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Business/Marketing Education, B.S.

Requirements

Students interested in teaching can pursue a Bachelor of Science in Business/Marketing Education and a secondary teaching license through a joint program offered by the Information Systems and Technology Department and the School of Education. The Business/Marketing Education curriculum prepares students to teach business, marketing, and information technology in secondary schools.

Total Program Credits: 122

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement. 2. GPA of 3.0 or higher with no grade lower than a C in content area courses. 3. Completion of all General Education requirements and the majority of content area courses. 4. Pass group interview directed by the Secondary Teacher Education Department. Pass LiveScan Criminal Background Check. 			
General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing-- Humanities/Social Sciences	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3

	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
	ECON 2020	Macroeconomics (fulfills Social/ Behavioral Science)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:			83 Credits
	BMED 4200	Methods of Teaching Business/ Marketing/Digital Technology	3
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2500	Graphic Applications	3
	IM 2600	Spreadsheet Applications	3
	IM 2800	Integrated Software Projects	3
	IM 3500	Desktop Publishing Applications	3
	IM 3700	Database Applications	3
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3

	INFO 2420	Web Application Design	3
	ACC 2010	Financial Accounting	3
	ECON 2010	Microeconomics	3
	FIN 1060	Personal Finance	3
	LEGL 3000	Business Law	3
	MGMT 3000	Organizational Behavior	3
	MKTG 2200	Written Business Communication	3
	MKTG 3600	Principles of Marketing	3
	EDSC 3000	Educational Psychology	3
	EDSC 3050	Foundations of American Education	2
	EDSC 3250	Instructional Media	2
	EDSP 3400	Exceptional Students	2
	EDSC 4200	Classroom Management I	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10
Elective Requirements:			3 Credits
Complete at least 3 credits from approved list of electives. See Department Advisor.			3
	INFO 1120	Information Systems and Technology Fundamentals(3.0)	
	INFO 2200	Computer Programming II for IS IT (3.0)	
	IT 1510	Introduction to System Administration--Linux/UNIX (3.0)	
	IT 1600	Computer Architecture and Systems Software (3.0)	
	MKTG 3660	Digital Marketing (3.0)	

Graduation Requirements:

1. Completion of 122 semester credit hours with at least 40 credit hours in upper-division courses.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Business/Marketing Education, B.S. Careers

Careers:
Secondary Education Business and Marketing teacher

Related Careers

- Business Teachers, Postsecondary
- Education Teachers, Postsecondary
- Vocational Education Teachers, Postsecondary
- Career/Technical Education Teachers, Middle School
- Career/Technical Education Teachers, Secondary School

Information Management, B.S.

Requirements

The Bachelor of Science in Information Management is designed to prepare students to supervise and manage the operations and personnel of business offices. Courses include instruction in employee supervision, budgeting, scheduling and coordination, office systems operation and maintenance, office records management, public relations, project management, accounting, decision making, and human resources.

Total Program Credits: 120

General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology Distribution		3
	Physical Science Distribution		3

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	Additional Biology or Physical Science Distribution	3
	Fine Arts Distribution	3
	Humanities Distribution	3
	ECON 2010 Microeconomics (fulfills Social/Behavioral Science)	3
or	ECON 2020 Macroeconomics (3.0) (fulfills Social/Behavioral Science)	
Discipline Core Requirements:		69 Credits
	IM 1010 Basic Computer Applications	3
	IM 2300 Information Management Principles	3
	IM 2500 Graphic Applications	3
	IM 2600 Spreadsheet Applications	3
	IM 2800 Integrated Software Projects	3
	IM 3500 Desktop Publishing Applications	3
	IM 3700 Database Applications	3
	IM 4300 Information Workflow Management	3
	IM 481R Internship (1.0)	3
	INFO 1120 Information Systems and Technology Fundamentals	3
	INFO 1200 Computer Programming I for IS/IT	3
	INFO 2410 Database Fundamentals (3.0)	3
	INFO 2420 Web Application Design	3
	INFO 3430 Systems Analysis and Design	3
	INFO 405G Global Ethical and Professional Perspectives in IS and IT	3
	INFO 4430 Systems Design and Implementation	3
	ACC 2010 Financial Accounting	3
	ACC 2020 Managerial Accounting	3
	HR 3430 Introduction to Human Resource Management	3
	LEGL 3000 Business Law	3
	MGMT 3000 Organizational Behavior	3
	MKTG 2200 Written Business Communication	3
	TECH 3400 Project Management	3
or	DGM 3220 Digital Media Project Management (3.0)	
Elective Requirements:		15 Credits
Complete at least 9 credits from a selected domain (at least 3 credits must be upper-division):		9
Business Intelligence Domain		
	INFO 3120 Management Information Systems (3.0)	
	INFO 3130 Introduction to Applied Data Analytics (3.0)	
	INFO 4120 Business Intelligence Systems (3.0)	
	INFO 4130 Data Science and Big Data Analytics (3.0)	
Health Domain		
	HLTH 1300 Medical Terminology I (2.0)	
	HLTH 2510 Media and Computer Applications in Health (3.0)	
	INFO 3700 Health Informatics Fundamentals (3.0)	
	INFO 4700 Healthcare Information Systems Management (3.0)	

Mobile Design and Development Domain		
	DGM 1110 Digital Media Essentials I (4.0)	
	DGM 2240 Interaction Design (3.0)	
	DGM 2250 Principles of Digital Design (3.0)	
	INFO 3420 Web Systems Development (3.0)	
	INFO 4420 Mobile Business Application Development (3.0)	
Web Systems Development Domain		
	INFO 3420 Web Systems Development (3.0)	
	INFO 3422 PHP Web Application Development (3.0)	
	INFO 3426 Web Content Management Systems Site Development (3.0)	
	INFO 4422 Advanced PHP Web Application Development (3.0)	
	INFO 4425 Web Application Security (3.0)	
Complete at least 6 credits from the following electives or from courses in above domains.		6
	COMP 301R Digital Lecture Series (1.0)	
	IM 183R IM Student Chapter (1.0)	
	IM 3600 Advanced Excel for Decision Making (3.0)	
	IM 490R Advanced Topics in Information Management (1.0)	
	IM 496R Information Management Seminar (1.0)	
	INFO 2200 Computer Programming II for IS/IT (3.0)	
	INFO 3410 Database Systems and Warehousing (3.0)	
	IT 1700 Cybersecurity Essentials (3.0)	
	IT 2600 Data Communication Fundamentals (3.0)	
	IT 2700 Information Security Fundamentals (3.0)	
	FIN 1060 Personal Finance (3.0)	
	TECH 3010 Creativity Innovation and Change Management (3.0)	
	TECH 4400 Advanced Project Management (3.0)	
Other department approved IM, INFO, or IT classes		

Graduation Requirements:

1. Completion of the 120 semester credit hours required in the degree with at least 40 credit hours in upper-division courses.
2. Overall grade point average 2.75 or above with no grade lower than a "C-" in core, domain, and elective courses.
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: The UVU catalog contains the descriptions and prerequisites for all courses. Not all courses are offered every semester.

Information Management, B.S.

Careers

Related Careers

- First-Line Supervisors of Office and Administrative Support Workers

Information Systems - Application Development Emphasis, B.S.

Requirements

The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs.

Total Program Credits: 123

General Education Requirements:		36 Credits
	ENGL 1010 Introduction to Writing (3.0)	3
	ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)	3
or	ENGL 2020 Intermediate Writing--Science and Technology (3.0)	
	MATH 1050 College Algebra (4.0)	4
or	MATH 1055 College Algebra with Preliminaries (5.0)	
American Institutions: Complete one of the following:		3
	HIST 2700 US History to 1877 (3.0)	
and	HIST 2710 US History since 1877 (3.0)	
	HIST 1700 American Civilization (3.0)	
	HIST 1740 US Economic History (3.0)	
	POLS 1000 American Heritage (3.0)	
	POLS 1100 American National Government (3.0)	
Complete the following:		
	PHIL 2050 Ethics and Values (3.0)	3
	HLTH 1100 Personal Health and Wellness (2.0)	2
or	PES 1097 Fitness for Life (2.0)	
Distribution Courses:		
	Biology Distribution	3
	Physical Science Distribution	3
	An Additional Biology or Physical Science Distribution Course	3
	Fine Arts Distribution	3
	Humanities Distribution	3
	Social/Behavioral Science Distribution (ECON 2020 recommended)	3
Discipline Core Requirements:		63 Credits
Math Requirement:		3
	MGMT 2340 Business Statistics I (3.0)	
IS Core Requirements:		
	INFO 1120 Information Systems and Technology Fundamentals	3
	INFO 1200 Computer Programming I for IS/IT	3
or	CS 1400 Fundamentals of Programming (3.0)	
	INFO 2200 Computer Programming II for IS/IT	3
	INFO 2410 Database Fundamentals	3
	INFO 2420 Web Application Design	3
	IM 2600 Spreadsheet Applications	3
	IT 2600 Data Communication Fundamentals	3
	IT 2700 Information Security Fundamentals	3

INFO 3130	Introduction to Applied Data Analytics	3
INFO 3410	Database Systems and Warehousing	3
INFO 3420	Web Systems Development	3
INFO 3430	Systems Analysis and Design	3
INFO 3700	Health Informatics Fundamentals	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
INFO 4430	Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:		
ACC 2010	Financial Accounting (3.0)	3
ACC 2020	Managerial Accounting (3.0)	3
MKTG 2200	Written Business Communication (3.0)	3
MGMT 3000	Organizational Behavior (3.0)	3
MKTG 3600	Principles of Marketing (3.0)	3
Emphasis Requirements:		12 Credits
INFO 3422	PHP Web Application Development	3
INFO 3426	Web Content Management Systems Site Development	3
INFO 4420	Mobile Business Application Development	3
INFO 4425	Web Application Security	3
Emphasis Elective Requirements:		12 Credits
Choose 12 credit hours from the following:		12
INFO 3750	Healthcare Information Systems Applications (3.0)	
INFO 4120	Business Intelligence Systems (3.0)	
INFO 4422	Advanced PHP Web Application Development (3.0)	
INFO 4440	Enterprise Computing Environments (3.0)	
INFO 481R	Internship (3.0)	
CS 2550	Web Programming I (3.0)	
CS 3410	Human Factors in Software Development (3.0)	
CS 3660	Web Programming II (3.0)	
DGM 2760	Web Languages I (3.0)	
DGM 2780	Web Tools and Frameworks I (3.0)	
Other approved upper-division Information Systems courses		

Graduation Requirements:

1. Completion of at least 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Information Systems - Application Development Emphasis, B.S.

Careers

Careers:

Information Systems and Technology

GIS Analyst, GIS Specialist, Computer and Information Systems Manager, Information Systems Analyst, Computer Systems Analyst, Database Administrator, Software Developer, IS Project Manager

Related Careers

- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software

Information Systems - Business Intelligence Systems Emphasis, B.S.

Requirements

The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The Business Intelligence Systems (BIS) emphasis prepares graduates to become business intelligence analysts who produce financial and marketing intelligence by querying data repositories, generating reports, and devising methods for identifying data patterns and trends. Organizations store an enormous amount of data. People who are able to perform data mining and can analyze the data to detect trends and form predictions are highly sought by national and regional organizations.

Total Program Credits: 123

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing (3.0)	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
American Institutions: Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values (3.0)	3
	HLTH 1100	Personal Health and Wellness (2.0)	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology Distribution		3
	Physical Science Distribution		3
	An Additional Biology or Physical Science Distribution Course		3
	Fine Arts Distribution		3
	Humanities Distribution		3
	Social/Behavioral Science Distribution (ECON 2020 recommended)		3
Discipline Core Requirements:		63 Credits	
Math Requirement:		3	
	MGMT 2340	Business Statistics I (3.0)	

IS Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3
or	CS 1400	Fundamentals of Programming (3.0)	
	INFO 2200	Computer Programming II for IS/IT	3
	INFO 2410	Database Fundamentals	3
	INFO 2420	Web Application Design	3
	IM 2600	Spreadsheet Applications	3
	IT 2600	Data Communication Fundamentals	3
	IT 2700	Information Security Fundamentals	3
	INFO 3130	Introduction to Applied Data Analytics	3
	INFO 3410	Database Systems and Warehousing	3
	INFO 3420	Web Systems Development	3
	INFO 3430	Systems Analysis and Design	3
	INFO 3700	Health Informatics Fundamentals	3
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
	INFO 4430	Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	MKTG 2200	Written Business Communication	3
	MGMT 3000	Organizational Behavior	3
	MKTG 3600	Principles of Marketing	3
Emphasis Requirements:			12 Credits
	ECON 3340	Managerial Statistics	3
	INFO 4120	Business Intelligence Systems	3
	INFO 4130	Data Science and Big Data Analytics	3
	INFO 4135	Data Security Analytics	3
Emphasis Elective Requirements:			12 Credits
Choose 12 credit hours from the following:			12
	IM 3600	Advanced Excel for Decision Making (3.0)	
	INFO 3120	Management Information Systems (3.0)	
	INFO 3422	PHP Web Application Development (3.0)	
	INFO 3750	Healthcare Information Systems Applications (3.0)	
	INFO 4410	Database Administration (3.0)	
	INFO 4415	Database Security and Auditing (3.0)	
	INFO 4420	Mobile Business Application Development (3.0)	
	INFO 4425	Web Application Security (3.0)	
	INFO 4440	Enterprise Computing Environments (3.0)	
	INFO 4700	Healthcare Information Systems Management (3.0)	
	MKTG 4300	Marketing Analytics (3.0)	
	Other approved upper-division Information Systems courses		

Graduation Requirements:

1. Completion of at least 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Information Systems - Business Intelligence Systems Emphasis, B.S.

Careers

Careers:
Data Scientist, Business Intelligence Analyst, Business Intelligence Developer, Computer and Information Systems Manager, Information Systems Analyst, Computer Systems Analyst, Database Administrator, Software Developer, IS Project Manager

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Software Developers, Systems Software
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Systems - Healthcare Information Systems Emphasis, B.S.

Requirements

The healthcare industry relies heavily on information systems to store patient information so that medical professionals can analyze the data. Information systems professionals who specialize in HIS find exciting careers. The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. Students who graduate with the Healthcare Information Systems (HIS) emphasis will use their knowledge of information technology and records management to form the links among health-care professionals and administrations and information technology professionals.

Total Program Credits: 123

General Education Requirements:		36 Credits
	ENGL 1010 Introduction to Writing (3.0)	3
	ENGL 2010 Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020 Intermediate Writing--Science and Technology (3.0)	
	MATH 1050 College Algebra	4
or	MATH 1055 College Algebra with Preliminaries (5.0)	
American Institutions: Complete one of the following:		3
	HIST 2700 US History to 1877 (3.0)	
and	HIST 2710 US History since 1877 (3.0)	
	HIST 1700 American Civilization (3.0)	
	HIST 1740 US Economic History (3.0)	
	POLS 1000 American Heritage (3.0)	
	POLS 1100 American National Government (3.0)	
Complete the following:		
	PHIL 2050 Ethics and Values	3

	HLTH 1100 Personal Health and Wellness	2
or	PES 1097 Fitness for Life (2.0)	
Distribution Courses:		
	Biology Distribution	3
	Physical Science Distribution	3
	An Additional Biology or Physical Science Distribution Course	3
	Fine Arts Distribution	3
	Humanities Distribution	3
	Social/Behavioral Science Distribution (ECON 2020 recommended)	3
Discipline Core Requirements:		63 Credits
Math Requirement:		3
	MGMT 2340 Business Statistics I (3.0)	
IS Core Requirements:		
	INFO 1120 Information Systems and Technology Fundamentals	3
	INFO 1200 Computer Programming I for IS/IT	3
or	CS 1400 Fundamentals of Programming (3.0)	
	INFO 2200 Computer Programming II for IS/IT	3
	INFO 2410 Database Fundamentals	3
	INFO 2420 Web Application Design	3
	IM 2600 Spreadsheet Applications	3
	IT 2600 Data Communication Fundamentals	3
	IT 2700 Information Security Fundamentals	3
	INFO 3130 Introduction to Applied Data Analytics	3
	INFO 3410 Database Systems and Warehousing	3
	INFO 3420 Web Systems Development	3
	INFO 3430 Systems Analysis and Design	3
	INFO 3700 Health Informatics Fundamentals	3
	INFO 405G Global Ethical and Professional Perspectives in IS and IT	3
	INFO 4430 Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:		
	ACC 2010 Financial Accounting	3
	ACC 2020 Managerial Accounting	3
	MKTG 2200 Business Communication	3
	MGMT 3000 Organizational Behavior	3
	MKTG 3600 Principles of Marketing	3
Emphasis Requirements:		12 Credits
	INFO 3750 Healthcare Information Systems Applications	3
	INFO 4120 Business Intelligence Systems	3
	INFO 4700 Healthcare Information Systems Management	3
	HLTH 4250 Health Services Organization and Policy	3
Emphasis Elective Requirements:		12 Credits
Choose 12 credit hours from the following list of upper-division courses:		12
	INFO 3120 Management Information Systems (3.0)	
	INFO 4130 Data Science and Big Data Analytics (3.0)	

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	INFO 4135	Data Security Analytics (3.0)	
	INFO 4420	Mobile Business Application Development (3.0)	
	INFO 4440	Enterprise Computing Environments (3.0)	
	INFO 481R	Internship (1.0)	
	IT 3350	Intellectual Property and Cyber Law (3.0)	
Other approved upper-division Information Systems courses			

Graduation Requirements:

1. Completion of at least 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Information Systems - Healthcare Information Systems Emphasis, B.S.

Careers

Careers:
HIS Software Development Manager, HIS Clinical Development Analyst, HIS SQL Reporting Engineer, HIS Client Support Technical Analyst, Computer and Information Systems Manager, Information Systems Analyst, Computer Systems Analyst, Database Administrator, Software Developer, IS Project Manager

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Software Developers, Systems Software
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Systems - Information Security Management Emphasis, B.S.

Requirements

Managing the security of information systems is extremely important for all types of organizations to protect the systems from data breaches. The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The Information Security Management (ISM) emphasis prepares students for information technology management and information security analyst positions.

Total Program Credits: 123

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing (3.0)	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
American Institutions: Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	

	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values (3.0)	3
	HLTH 1100	Personal Health and Wellness (2.0)	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology Distribution		3
	Physical Science Distribution		3
	An Additional Biology or Physical Science Distribution Course		3
	Fine Arts Distribution		3
	Humanities Distribution		3
	Social/Behavioral Science Distribution (ECON 2020 recommended)		3
Discipline Core Requirements:			63 Credits
Math Requirement:			3
	MGMT 2340	Business Statistics I (3.0)	
IS Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3
or	CS 1400	Fundamentals of Programming (3.0)	
	INFO 2200	Computer Programming II for IS/IT	3
	INFO 2410	Database Fundamentals	3
	INFO 2420	Web Application Design	3
	IM 2600	Spreadsheet Applications	3
	IT 2600	Data Communication Fundamentals	3
	IT 2700	Information Security Fundamentals	3
	INFO 3130	Introduction to Applied Data Analytics	3
	INFO 3410	Database Systems and Warehousing	3
	INFO 3420	Web Systems Development	3
	INFO 3430	Systems Analysis and Design	3
	INFO 3700	Health Informatics Fundamentals	3
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
	INFO 4430	Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	MKTG 2200	Business Communication	3
	MGMT 3000	Organizational Behavior	3
	MKTG 3600	Principles of Marketing	3
Emphasis Requirements:			15 Credits
	INFO 4410	Database Administration	3
	INFO 4135	Data Security Analytics	3

	INFO 4415	Database Security and Auditing	3
	INFO 4425	Web Application Security	3
	IT 4700	Enterprise Information Security Management	3
Emphasis Elective Requirements:			9 Credits
Choose 9 credit hours from the following advanced upper-division courses:			9
	IT 3350	Intellectual Property and Cyber Law (3.0)	
	IT 4750	Network Security and Operations Capstone (strongly recommended) (3.0)	
	INFO 3426	Web Content Management Systems Site Development (3.0)	
	INFO 4440	Enterprise Computing Environments (3.0)	
	INFO 4700	Healthcare Information Systems Management (3.0)	
	INFO 481R	Internship (3.0)	
Other approved upper-division Information Systems courses			

Graduation Requirements:

1. Completion of at least 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

Information Systems - Information Security Management Emphasis, B.S.

Careers

Careers:
Information Security Manager, Information Systems Security Analyst, Database Administrator, Computer and Information Systems Manager, Computer Systems Analyst, Software Developer, IS Project Manager

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Software Developers, Systems Software
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Technology - Computer Forensics and Security Emphasis, B.S.

Requirements

Electronic data is often used as evidence in court. Forensic specialists learn how to identify, preserve, and extract data from electronic devices, such as computers and smart phones. The Bachelor of Science in Information Technology (IT) degree prepares students to install, manage, and maintain the computing infrastructure on which organizational systems run. The Computer Forensics and Security emphasis provides students with a solid foundation for employment by government or corporate sector to work in a computer forensics lab as a forensic analyst or in information security.

Total Program Credits: 123

General Education Requirements:		38 Credits
	ENGL 1010	Introduction to Writing
		3

	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0) (recommended)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology Distribution		3
	Physical Science Distribution		3
	PHYS 2010	College Physics I (fulfills Additional Biology or Physical Science Distribution)	4
and	PHYS 2015	College Physics I Lab	1
	Fine Arts Distribution		3
	ENGL 2310	Technical Communication (fulfills Humanities Distribution)	3
	CJ 1010	Introduction to Criminal Justice (Social/ Behavioral Science Distribution)	3
Discipline Core Requirements:			64 Credits
Math Requirement:			
	STAT 2050	Introduction to Statistical Methods (4.0)	
or	MGMT 2340	Business Statistics I	3
IT Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3
	IT 1510	Introduction to System Administration--Linux/ UNIX	3
	IT 1600	Computer Architecture and Systems Software	3
	INFO 2410	Database Fundamentals	3
	IT 2530	Introduction to System Administration-- Windows Client	3
	IT 2600	Data Communication Fundamentals	3
or	CS 2600	Computer Networks I (3.0)	
	IT 2700	Information Security Fundamentals	3
	COMP 301R	Digital Lecture Series	1
	INFO 3420	Web Systems Development	3
	INFO 3430	Systems Analysis and Design	3
	IT 3510	Advanced System Administration--Linux/UNIX	3

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IT 3530	Advanced System Administration--Windows Server	3
IT 3600	Internetworking and Router Management	3
IT 3700	Information Security--Network Defense and Countermeasures	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
INFO 4430	Systems Design and Implementation	3
IT 4600	Enterprise Architectures and Virtualization	3
IT 4700	Enterprise Information Security Management	3
IT Application Domain Requirement:		6
Two specified courses to provide students with knowledge of an application domain of their choice and interest. (See department advisor for list of approved courses.) For the Computer Forensics and Security emphasis, the following 2 courses are required: CJ 1330 and CJ 1340.		
Some possible application domains are:		
	Accounting/IT Auditor	
	Business	
	Communications	
	Computer Science	
	Construction	
	Criminal Justice (Choose this domain for Computer Forensics and Security emphasis)	
	Forensics	
	Geographic Information Systems	
	Health professions	
	Hospitality Management	
	Manufacturing/Production	
	Military Science	
	Multimedia/Digital Media	
	Physical Sciences	
	Social Sciences	
Emphasis Requirements:		12 Credits
IT 2800	Computer Forensic Fundamentals	3
IT 3350	Intellectual Property and Cyber Law	3
IT 4800	Advanced Mobile Devices Forensics	3
IT 4850	Digital Forensics Investigations	3
Emphasis Elective Requirements:		9 Credits
Select 9 credit hours from the following:		
INFO 3410	Database Systems and Warehousing (3.0)	
INFO 3422	PHP Web Application Development (3.0)	
INFO 4135	Data Security Analytics (3.0)	
INFO 4415	Database Security and Auditing (3.0)	
INFO 4425	Web Application Security (3.0)	
IT 1200	Scripting for Administrators (3.0)	
IT 3540	Mac OS and Server Support (3.0)	
IT 459R	Current Topics in Information Technology (3.0)	
IT 4750	Network Security and Operations Capstone (3.0)	

IT 481R	Internship (1.0)	
Other approved upper-division Information Technology and Information Systems courses		

Graduation Requirements:

1. Completion of at least 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Completion of GE global intercultural requirement. INFO 405G satisfies this requirement.
6. Successful completion of at least one Global/Intercultural course.

Information Technology - Computer Forensics and Security Emphasis, B.S.

Careers

Careers:
Information Security Analyst, Forensic Analyst, IT Manager, IT Project Manager

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

Information Technology - Network Administration and Security Emphasis, B.S.

Requirements

Every organization uses some form of information technology to perform its operations. The Bachelor of Science in Information Technology (IT) degree prepares students to install, manage, and maintain the computing infrastructure on which organizational systems run. The Network Administration and Security emphasis prepares students to work as data communication consultants, information security analysts, and network administrators. The core of the BS IT program prepares students to have a strong foundation in computer architecture, data communication, information security, networks, and system administration.

Total Program Credits: 123

General Education Requirements:			38 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	

	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology Distribution		3
	Physical Science Distribution		3
	PHYS 2010	College Physics I (fulfills Additional Biology or Physical Science Distribution)	4
and	PHYS 2015	College Physics I Lab	1
	Fine Arts Distribution		3
	ENGL 2310	Technical Communication (fulfills Humanities Distribution)	3
	Social/Behavioral Science Distribution		3
Discipline Core Requirements:			64 Credits
Math Requirement:			
	STAT 2050	Introduction to Statistical Methods (4.0)	
or	MGMT 2340	Business Statistics I	3
IT Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3
	IT 1510	Introduction to System Administration--Linux/UNIX	3
	IT 1600	Computer Architecture and Systems Software	3
	INFO 2410	Database Fundamentals	3
	IT 2530	Introduction to System Administration--Windows Client	3
	IT 2600	Data Communication Fundamentals	3
or	CS 2600	Computer Networks I (3.0)	
	IT 2700	Information Security Fundamentals	3
	COMP 301R	Digital Lecture Series	1
	INFO 3420	Web Systems Development	3
	INFO 3430	Systems Analysis and Design	3
	IT 3510	Advanced System Administration--Linux/UNIX	3
	IT 3530	Advanced System Administration--Windows Server	3
	IT 3600	Internetworking and Router Management	3
	IT 3700	Information Security--Network Defense and Countermeasures	3
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
	INFO 4430	Systems Design and Implementation	3
	IT 4600	Enterprise Architectures and Virtualization	3
	IT 4700	Enterprise Information Security Management	3
IT Application Domain Requirement:			6
Two specified courses to provide students with knowledge of an application domain of their choice and interest. (See department advisor for list of approved courses.) For the Computer Forensics and			

Security emphasis, the following 2 courses are required: CJ 1330 and CJ 1340.		
Some possible application domains are:		
	Accounting/IT Auditor	
	Business	
	Communications	
	Computer Science	
	Construction	
	Criminal Justice (Choose this domain for Computer Forensics and Security emphasis)	
	Forensics	
	Geographic Information Systems	
	Health professions	
	Hospitality Management	
	Manufacturing/Production	
	Military Science	
	Multimedia/Digital Media	
	Physical Sciences	
	Social Sciences	
Emphasis Requirements:		9 Credits
	IT 2400	Voice and Data Cabling Fundamentals 3
	IT 4750	Network Security and Operations Capstone 3
	INFO 4425	Web Application Security 3
Emphasis Elective Requirements:		12 Credits
Choose 12 credit hours from the following: (3 credits must be 3000 or higher)		12
	INFO 2200	Computer Programming II for IS/IT (3.0)
	INFO 2420	Web Application Design (3.0)
	INFO 3410	Database Systems and Warehousing (3.0)
	INFO 3422	PHP Web Application Development (3.0)
	INFO 4135	Data Security Analytics (3.0)
	INFO 4410	Database Administration (3.0)
	INFO 4415	Database Security and Auditing (3.0)
	INFO 459R	Current Topics in Information Systems (3.0)
	IT 1200	Scripting for Administrators (3.0)
	IT 2800	Computer Forensic Fundamentals (3.0)
or	FSCI 3800	Computer Forensics and Cyber Crime (3.0)
	IT 3350	Intellectual Property and Cyber Law (3.0)
	IT 3540	Mac OS and Server Support (3.0)
	IT 3650	Information Storage and Management (3.0)
	IT 459R	Current Topics in Information Technology (3.0)
	IT 481R	Internship (1.0)
Other approved upper-division Information Technology and Information Systems courses		

Graduation Requirements:

1. Completion of at least 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.

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2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Completion of GE global intercultural requirement. INFO 405G satisfies this requirement.
6. Successful completion of at least one Global/Intercultural course.

Information Technology - Network Administration and Security Emphasis, B.S.

Careers

Careers:
Network Administrator, Computer Systems Administrators, Computer Network Architects, Information Security Analyst, Network Security Administrators, Network Security Analyst, IT Project Manager

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

Integrated Studies

Name:	Integrated Studies
Location:	CB 311
Telephone:	801-863-8455
Email:	mark.olson@uvu.edu
Web Address:	uvu.edu/is
Chair:	Wayne Hanewicz
Chair UVU Email:	hanewiwa@uvu.edu

Mission Statement

The Program in Integrated Studies serves students with interests and capabilities in more than one scholarly discipline. The degree trades disciplinary depth for breadth and for cross-disciplinary research and writing that culminate in a senior thesis. The Program encourages and supports interdisciplinary study across campus.

Integrated Studies

- **Advising:** See Mark Olson or Brandon Springer (below)
- **Email:** IS_Advising@uvu.edu
- **Appointments:** Please call 801-863-8455 or 801-863-5888
- **Program Coordinator:** Mark Olson
- **Telephone:** 801-863-5888
- **Email:** mark.olson@uvu.edu
- **Mail Stop:** 145A
- **Administrative Support:** Brandon Springer
- **Telephone:** 801-863-8455
- **Email:** brandon.springer@uvu.edu
- **Mail Stop:** 145A

Curriculum

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, leadership, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, and technology management are also offered as part of this degree.

Special Program Characteristics

- Students engage in interdisciplinary work that culminates in a senior thesis.
- Students receive one-on-one feedback from multiple faculty advisors throughout their senior thesis process.
- Students completing the Integrated Studies degree have developed skills in thinking, problem solving, collaborative work, gathering and analyzing data, writing, and speaking, and have done so on the foundation of solid (but not exhaustive) disciplinary emphases.
- Faculty do campus-wide interdisciplinary work that includes team teaching across disciplines and collaborative projects.
- The campus and local community benefit from our lecture series and our interdisciplinary conferences, as well as from our student-published journal, *Intersections*.

Summary of the Degree

- After becoming familiar with the material on the [IS website](#), meet with advisors to plan course work. Various emphases may require specific courses and minimum grades. 2.5 GPA required for application.
- Become matriculated into Integrated Studies by submitting an interest essay which is reviewed by the department
- Complete two approved 18-21 credit hour emphases from the following colleges/schools: College of Humanities and Social Sciences; College of Science and

Health; College of Technology and Computing; School of the Arts; Woodbury School of Business. More than 40 emphasis areas are available. For a list, please visit www.uvu.edu/is.

- Complete the Integrated Studies Discipline Core with a minimum grade of C- in each class.
- Complete forty hours of upper-division course work as part of the requirements in the emphasis areas & IS Core.
- Complete thirty hours of course work in residency at UVU; at least 10 of these must be completed at UVU within the last 45 credit hours earned.
- For a Bachelor of Arts degree, students must complete the 202G/2020 class in the chosen foreign language. For a Bachelor of Science degree, students must complete either MATH 1210 or MATH 2040.

Program Learning Outcomes

1. Graduates will be able to gather and analyze information to develop a Capstone Thesis which incorporates knowledge from their two (or three) emphasis areas, upper division theory courses, and Integrated Studies topics courses.
2. Graduates will be able to discuss and defend their Capstone Thesis/Project with particular attention to how concepts from their emphases are incorporated through work on a problem that requires interdisciplinary tools.
3. Graduates will be able to apply research and writing skills to demonstrate informational and technical literacy.

FACULTY

- ABBOTT, Scott** *Professor*
ABUNUWARA, Kim *Assistant Professor*
CLARKE, Alan *Professor*
HANEWICZ, Wayne B. *Professor*
JACKSON, Gregory Richard *Assistant Professor*

Course Descriptions

Integrated Studies..... 737

Degrees & Programs

Integrated Studies, A.A.

Requirements

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	

Integrated Studies

	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution	3
		Fine Arts Distribution	3
		Social/Behavioral Science	3
Discipline Core Requirements:			17 Credits
	IS 2000	Knowledge Integrated	3
		Complete any courses 1000 or higher (if planning to complete a BA degree, see advisor for list of recommended courses)	14
Elective Requirements:			8 Credits
		One Language (other than English) to include the 1010 or 1020 levels.	8

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Integrated Studies, A.A.

Careers

Careers:
For those completing the bachelor degree in Integrated Studies, various opportunities exist for advanced academic and professional degrees (a wide variety of MA and PhD programs, law school, medical and dental schools, MBA, MPA, etc.) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include general problem solving, the ability to comprehend diverse material, to write clearly, to think critically, and to work cooperatively.

Related Careers

- NO MATCH

Integrated Studies, A.S.

Requirements

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities	3
		Fine Arts	3
		Social/Behavioral Science	3
Discipline Core Requirements:			25 Credits

IS 2000	Knowledge Integrated	3
Complete any courses 1000 or higher		22

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Integrated Studies, A.S.

Careers

Careers:
For those completing the bachelor degree in Integrated Studies, various opportunities exist for advanced academic and professional degrees (a wide variety of MA and PhD programs, law school, medical and dental schools, MBA, MPA, etc.) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include general problem solving, the ability to comprehend diverse material, to write clearly, to think critically, and to work cooperatively.

Related Careers

- NO MATCH

IS Emphasis in Accounting

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
ACC 3010	Intermediate Accounting I	3
ACC 3300	Cost Management	3
Choose 12 credits from the following:		12
ACC 3020	Intermediate Accounting II (3.0)	
ACC 3400	Individual Income Tax (3.0)	
ACC 3510	Accounting Information Systems (3.0)	
ACC 4110	Auditing (3.0)	
ACC 4400	Taxation of Corporations/Partnerships/Estates and Trusts (3.0)	
or ACC 4420	Corporate Tax (3.0)	

NOTE: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C-, required for graduation.

IS Emphasis in American Indian Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		6 Credits
Complete the following:		6
AIST 180G	Introduction to American Indian Studies (3.0)	

AIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
Elective Requirements:		12 Credits
Complete four of the following:		12
AIST 327G	Indians of Utah (3.0)	
AIST 3600	American Indian Policy and Tribal Government (3.0)	
AIST 3810	Pre-Columbian America (3.0)	
AIST 3830	Indians of the Great Plains (3.0)	
AIST 384G	Indians of the Southwest (3.0)	
AIST 3850	The Struggle for Self-determination--American Indians 1891 to present (3.0)	
AIST 490R	Special Topics in American Indian Studies (3.0)	
ANTH 3300	Development and Rural Societies (3.0)	
ANTH 3450	Shamanism and Indigenous Religion (3.0)	
BESC 4030	Introduction to Practice Evaluation and Grant Writing (3.0)	
ENGL 357G	Native American Literature (3.0)	

IS Emphasis in American Sign Language

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		6 Credits
Prerequisites (see advisor)		
ASL 1010	Beginning American Sign Language I (4.0)	
ASL 1020	Beginning American Sign Language II (4.0)	
ASL 2010	Intermediate American Sign Language I (4.0)	
ASL 202G	Intermediate American Sign Language II (4.0)	
Complete the following		
ASL 3050	Advanced American Sign Language	3
ASL 3530	Modern Deaf Culture	3
Elective Requirements:		12 Credits
Complete 12 credits from any 3000 or 4000 level ASL or LANG courses not already taken.		12

IS Emphasis in American Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		9 Credits
AMST 2000	Introduction to American Studies	3
AMST 300R	Topics in American Studies	6

Integrated Studies

Elective Requirements:	9 Credits
Complete nine hours of advisor-approved electives. Elective courses should reflect a specific topical or thematic focus and must be approved by an American Studies advisor.	9

IS Emphasis in Anthropology

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 19

Discipline Core Requirements:	19 Credits
Prerequisite - Complete the following course:	
ANTH 101G Social/Cultural Anthropology (3.0) **	
Complete the following courses:	
ANTH 1020 Biological Anthropology	3
BESC 3010 Statistics for the Behavioral Sciences	4
ANTH 4120 History of Anthropological Thought (3.0)	
or ANTH 4130 Contemporary Theory and Debates	3
ANTH 3850 Ethnographic Methods	3
Complete 6 additional credits in Anthropology. Three credits must be upper division.	6

Footnote	
**	ANTH 101G is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.

IS Emphasis in Art History

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:	18 Credits
ARTH 2710 History of Art to the Renaissance	3
ARTH 2720 History of Art from the Renaissance	3
Complete 12 credits from the following courses:	12
ARTH 3015 Ancient Art of Egypt and the Near East (3.0)	
ARTH 3020 Classical Art and Architecture History (3.0)	
ARTH 3030 Medieval Art and Architecture History (3.0)	
ARTH 3040 Renaissance Art History (3.0)	
ARTH 3050 Baroque Art and Architecture History (3.0)	
ARTH 3060 Nineteenth-Century Art History (3.0)	
ARTH 3070 Modern Art and Architecture History (3.0)	
ARTH 309G Introduction to Western Ancient Art (3.0)	
ARTH 3100 History of American Art and Architecture (3.0)	

ARTH 3120 History of Contemporary Art (3.0)	
ARTH 3300 Introduction to Museum Studies (3.0)	
ARTH 3400 Arts Management (3.0)	
ARTH 391R Art History Seminar (3.0)	

IS Emphasis in Biology

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:	18 Credits
Prerequisites (see Advisor):	
BIOL 1610 College Biology I (4.0)	
BIOL 1615 College Biology I Laboratory (1.0)	
CHEM 1110 Elementary Chemistry for the Health Sciences (4.0)	
Complete the following:	
BIOL 1620 College Biology II	3
BIOL 1625 College Biology II Laboratory	1
BIOL 4500 Principles of Evolution	3
Complete 11 credits (minimum of 9 credits must be upper-division) from any BIOL, BOT, MICR, or ZOOLOG courses except BIOL 1010, ZOOLOG 1090, BIOL 494R, BIOL 489R, BIOL 495R, or BIOL 499R.	11

IS Emphasis in Business Management

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:	18 Credits
Prerequisites:	
ACC 2010 Financial Accounting (3.0)	
and ACC 2020 Managerial Accounting (3.0)	
or ACC 2030 Principles of Accounting (6.0)	
or ACC 3000 Financial Managerial and Cost Accounting Concepts (3.0)	
My Educator*	
or IM 2010 Business Computer Proficiency (3.0)*	
or IM 2600 Spreadsheet Applications (3.0)*	
Complete the following:	
INFO 3120 Management Information Systems	3
ECON 2020 Macroeconomics	3
MGMT 3000 Organizational Behavior	3
MKTG 3600 Principles of Marketing	3
Complete 6 credits from the following:	6
LEGL 3000 Business Law (3.0)	

ECON 2010	Microeconomics (3.0)	
FIN 3100	Principles of Finance (3.0)	
MGMT 330G	Survey of International Business (3.0)	
HR 3430	Introduction to Human Resource Management (3.0)	

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C-, required for graduation.

Footnote:
* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

IS Emphasis in Cinema Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		9 Credits
ENGL 2150	Critical Introduction to Cinema Studies	3
THEA 2311	Film History I	3
or THEA 2312	Film History II (3.0)	
ENGL 3150	Film Theory	3
Elective Requirements:		9 Credits
In addition to the 9 core requirements, students must complete an additional 9 hours of advisor-approved electives. Six (6) of the 9 hours must be upper-division (see coordinator for a list of approved electives).		9

IS Emphasis in Classical Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		9 Credits
PHIL 2110	Ancient Greek Philosophy	3
HIST 3110	Greek History	3
Roman History Set (complete 3 credits from the following)		3
HIST 3130	Roman Republic (3.0)	
HIST 3140	Roman Empire (3.0)	
Elective Requirements:		9 Credits
In addition to the 9 credits of core requirements, students must complete an additional 9 hours of electives. The following list of courses has been approved for the Classical Studies IS Emphasis. If a course that is not represented on the following list has sufficient classical studies related content, the student may seek approval from the Classical Studies Coordinator to have the course count toward the IS Emphasis. Note: Latin or Greek language coursework applied toward a Student's foreign language requirement will not be applied toward Classical Studies elective requirements.		9
ANTH 2030	Archeological Method and Theory (3.0)	

ARTH 2710	History of Art to the Renaissance (3.0)	
ARTH 3020	Classical Art and Architecture History (3.0)	
ENGL 2230	Myths and Legends in Literature (3.0)	
ENGL 3610	Medieval Literature (3.0)	
ENGL 376G	World Literature (3.0)	
HIST 3130	Roman Republic (3.0)	
HIST 3140	Roman Empire (3.0)	
HONR 2000	Ancient Legacies (3.0)	
HUM 2010	World History Through the Arts I (3.0)	
HUM 2500	Introduction to Ancient Greek I (6.0)	
HUM 2510	Introduction to Ancient Greek II (6.0)	
PHIL 2130	Medieval Philosophy (3.0)	
PHIL 386R	Topics in Ancient Philosophy (3.0)	
GRK 1010	Beginning Ancient Greek I (4.0)	
GRK 1020	Beginning Ancient Greek II (4.0)	
GRK 2010	Intermediate Ancient Greek I (4.0)	
GRK 2020	Intermediate Ancient Greek II (4.0)	
GRK 3010	Readings in Ancient Greek (3.0)	
LATN 1010	Beginning Latin I (4.0)	
LATN 1020	Beginning Latin II (4.0)	
LATN 2010	Intermediate Latin I (4.0)	
LATN 2020	Intermediate Latin II (4.0)	
LATN 3010	Readings in Latin (3.0)	

IS Emphasis in Communication

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete one of the following two tracks:		18
TRACK ONE: COMMUNICATION		
Complete 6 credits from following		
COMM 1500	Introduction to Mass Communication (3.0)	
COMM 1050	Introduction to Speech Communication (3.0)	
COMM 2110	Interpersonal Communication (3.0)	
COMM 2120	Small Group Communication and Decision Making (3.0)	
COMM 3030	Mass Communication and Society (3.0)	
THEA 2311	Film History I (3.0)	
THEA 2312	Film History II (3.0)	
Complete 12 credits from the following:		
ANTH 3500	Discourse Semiotics and Representation (3.0)	
COMM 3050	Theories of Communication and Culture (3.0)	
COMM 3100	Propaganda and Persuasion (3.0)	

Integrated Studies

COMM 3110	Non-Fiction Cinema History (3.0)	
COMM 332G	Cross-Cultural Communications for International Business (3.0)	
COMM 350R	Special Topics in Communication (3.0)	
COMM 362G	International Communication (3.0)	
COMM 3700	Free Expression in a Democratic Society (3.0)	
COMM 3780	Mormon Cultural Studies (3.0)	
Or other courses as approved		
TRACK TWO: JOURNALISM		
Complete 6 credits from the following:		
COMM 1130	Writing for the Mass Media (3.0)	
COMM 2560	Radio Production (3.0)	
COMM 2790	Magazine Writing (3.0)	
COMM 3030	Mass Communication and Society (3.0)	
Complete 12 credits from the following:		
COMM 3000	Media Ethics (3.0)	
COMM 3100	Propaganda and Persuasion (3.0)	
COMM 3660	Investigative Reporting (3.0)	
COMM 3700	Free Expression in a Democratic Society (3.0)	
COMM 3790	Case Studies in Journalism (3.0)	
COMM 380R	Long-Format Video Journalism (3.0)	
Or other courses as approved		

IS Emphasis in Community Health

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete the following:		
HLTH 3200	Principles of Community Health	3
HLTH 3220	Foundations of Health Education	3
HLTH 3400	Human Diseases	3
or HLTH 3800	Epidemiology (3.0)	
HLTH 4300	Community Health Ethics	3
or HLTH 4600	Research Methods for Community Health (3.0)	
Choose 6 credits from the following:		6
NUTR 1020	Foundations of Human Nutrition (3.0)	
NUTR 2020	Nutrition Through the Life Cycle (3.0)	
HLTH 2400	Concepts of Stress Management (3.0)	
HLTH 2600	Drugs Behavior and Society (3.0)	
HLTH 2800	Human Sexuality (3.0)	
HLTH 3000	Health Concepts of Death and Dying (3.0)	
HLTH 3240	Womens Health Issues (3.0)	

HLTH 3260	Theory-Based Approaches to Modifying Health Behavior (3.0)	
HLTH 3300	Health Promotion for Older Adults (3.0)	
HLTH 4140	Community Health Assessment and Program Development (3.0)	
HLTH 4160	Program Implementation and Evaluation (3.0)	
HLTH 4250	Public Health Organization and Policy (3.0)	
HLTH 490R	Special Topics in Community Health (1.0)	

IS Emphasis in Computer Networking

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Prerequisites:		
INFO 1120	Information Systems and Technology Fundamentals (3.0)	
INFO 1200	Computer Programming I for IS/IT (3.0)	
IT 1600	Computer Architecture and Systems Software (3.0)	
Complete the following:		
IT 1510	Introduction to System Administration--Linux/UNIX	3
IT 2600	Data Communication Fundamentals	3
IT 2700	Information Security Fundamentals	3
Complete 9 credits from the following:		9
IT 2530	Introduction to System Administration--Windows Client (3.0)	
IT 2800	Computer Forensic Fundamentals (3.0)	
IT 3510	Advanced System Administration--Linux/UNIX (3.0)	
IT 3530	Advanced System Administration--Windows Server (3.0)	
IT 3600	Internetworking and Router Management (3.0)	
IT 3700	Information Security--Network Defense and Countermeasures (3.0)	
INFO 405G	Global Ethical and Professional Perspectives in IS and IT (3.0)	
IT 4600	Enterprise Architectures and Virtualization (3.0)	
IT 4800	Advanced Mobile Devices Forensics (3.0)	

NOTE: A minimum of 2.5 GPA in all Specialty Core courses with no grade lower than a C- required for graduation.

IS Emphasis in Computer Science

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete one of the following:		3
CS 3250	Java Software Development (3.0)	
CS 3370	C-plus-plus Software Development (3.0)	
Choose 15 credits from the following:		15
CS 3240	Discrete Mathematical Structures II (3.0)	
CS 3250	Java Software Development (3.0)	
CS 3370	C-plus-plus Software Development (3.0)	
CS 2450	Software Engineering (3.0)	
CS 4380	Advanced/High-Performance Computer Architecture (3.0)	
CS 4450	Analysis of Programming Languages (3.0)	
CS 4490	Compiler Construction (3.0)	

NOTE: A minimum GPA of 2.5 in all Specialty Core courses with no grade lower than a C- required for graduation.

IS Emphasis in Earth Science

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
GEO 1010	Introduction to Geology	3
GEO 1015	Introduction to Geology Laboratory (1.0)	
Complete one of the following sets (lab is highly recommended)		3
GEO 1220	Historical Geology (3.0)	
and GEO 1225	Historical Geology Laboratory (1.0)	
or GEO 1080	Introduction to Oceanography (3.0)	
and GEO 1085	Introduction to Oceanography Laboratory (1.0)	
or METO 1010	Introduction to Meteorology (3.0)	
and METO 1020	Introduction to Meteorology Laboratory (1.0)	
Complete three courses from the following:		12
METO 3100	Climate and the Earth System (3.0)	
and METO 1020	Introduction to Meteorology Laboratory (1.0)	
or GEO 1015	Introduction to Geology Laboratory (1.0)	
or GEO 1225	Historical Geology Laboratory (1.0)	
GEO 3080	Earth Materials (4.0)	
GEO 3200	Geologic Hazards (4.0)	
GEO 3700	Structure and Tectonics (4.0)	
GEO 4500	Sedimentary Geology (4.0)	
GEO 4510	Paleontology (4.0)	
ENVT 3790	Hydrology I (4.0)	
GEOG 3600	Introduction to Geographic Information Systems (4.0)	

IS Emphasis in Economics

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		12 Credits
ECON 2010	Microeconomics	3
ECON 2020	Macroeconomics	3
ECON 3020	Managerial Economics	3
ECON 3830	History of Economic Thought	3
Elective Requirements:		6 Credits
Choose six hours from the following courses:		6
ECON 3030	Intermediate Macroeconomics (3.0)	
ECON 3040	Environmental Economics (3.0)	
ECON 3810	Labor Economics (3.0)	
ECON 3820	Economic Development (3.0)	
ECON 4150	Public Finance (3.0)	
ECON 4320	Mathematical Economics (3.0)	
FIN 4100	Management of Financial Institutions (3.0)	
FIN 4180	International Finance Management (3.0)	

IS Emphasis in English

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete the following:		
ENGL 2600	Critical Introduction to Literature	3
Complete 15 hours of upper-division ENGL courses. Course selection must be approved by English advisor.		

IS Emphasis in Environmental Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		3 Credits
ENST 3000	Introduction to Environmental Studies	3
Elective Requirements:		15 Credits
Electives (15 credit hours). Complete 5 of the following courses of 4 different prefixes from at least 2 different schools.		15
College of Humanities and Social Sciences		
ANTH 3150	Culture Ecology and Health (3.0)	
or HLTH 3150	Culture Ecology and Health (3.0)	

Integrated Studies

	COMM 3130	The Culture of Nature and Technology (3.0)	
	ENST 3520	Environmental Sociology (3.0)	
or	SOC 3520	Environmental Sociology (3.0)	
	ENVT 3630	Introduction to Geographic Information Systems (4.0)	
or	GEOG 3600	Introduction to Geographic Information Systems (4.0)	
	GEOG 3010	Economic Geography (3.0)	
	GEOG 3800	Environmental History of the United States (3.0)	
or	HIST 3800	Environmental History of the United States (3.0)	
	HIST 3260	History of Utah (3.0)	
	HIST 4330	Machines in the Making of History (3.0)	
	PHIL 3530	Environmental Ethics (3.0)	
	POLS 1800	Our Global Community (3.0)	
	Any other advisor-approved courses		
College of Science and Health			
	ANTH 3150	Culture Ecology and Health (3.0)	
or	HLTH 3150	Culture Ecology and Health (3.0)	
	BIOL 1010	General Biology (3.0)	
	BIOL 2500	Environmental Biology (3.0)	
	BIOL 3700	General Ecology (3.0)	
	BIOL 3800	Conservation Biology (3.0)	
	BIOL 4500	Principles of Evolution (3.0)	
	ENVT 3280	Environmental Law (3.0)	
	ENVT 3630	Introduction to Geographic Information Systems (4.0)	
or	GEOG 3600	Introduction to Geographic Information Systems (4.0)	
	ENVT 3850	Environmental Policy (3.0)	
	GEO 1220	Historical Geology (3.0)	
	METO 3100	Climate and the Earth System (3.0)	
	Any other advisor approved courses		
Woodbury School of Business			
	ECON 3040	Environmental Economics (3.0)	
	Any other advisor approved courses		

IS Emphasis in Ethics

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		9 Credits
PHIL 1000	Introduction to Philosophy	3
PHIL 1250	Introduction to Logic and Critical Thinking	3
PHIL 3550	Moral Philosophy	3
Elective Requirements:		9 Credits

Complete 9 credits from the following:		9
PHIL 130R	Ethics Forum (1.0)	
PHIL 3010	Media Ethics (3.0)	
or	COMM 3000	Media Ethics (3.0)
PHIL 3450	Philosophy of Childhood (3.0)	
PHIL 3460	The Ethics of Human/Animal Relationships (3.0)	
PHIL 3510	Business and Professional Ethics (3.0)	
PHIL 3520	Bioethics (3.0)	
PHIL 3530	Environmental Ethics (3.0)	
PHIL 3540	Christian Ethics (3.0)	
PHIL 357R	Moral Reasoning Through Case Studies: Ethics Bowl (3.0)	
PHIL 3700	Social and Political Philosophy (3.0)	
PHIL 3710	Philosophy of Law (3.0)	
PHIL 450R	Interdisciplinary Senior Ethics Seminar (3.0)	
PHIL 451R	Ethical Theory Seminar (3.0)	
PHIL 481R	Internship (1.0)	
PHIL 490R	Independent Study (1.0)	
ASL 4370	Ethics for Interpreters (3.0)	
BIOL 4260	Ethical Issues in Biology (2.0)	
CS 305G	Global Social and Ethical Issues in Computing (3.0)	
NURS 3410	Professional Standards of Nursing (1.0)	
PJST 3000	Introduction to Peace and Justice Studies (3.0)	
other advisor-approved course		

IS Emphasis in Exercise Science

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete the following:		
EXSC 270G	Foundations of Exercise Science	3
EXSC 3270	Exercise Testing and Prescription	3
EXSC 3500	Kinesiology	3
EXSC 3700	Exercise Physiology	3
EXSC 3705	Exercise Physiology Laboratory	1
Complete 5 credits from the following:		5
Any PES 1000 level course except PES 1097, maximum of 1 credit may be applied to graduation		
Any EXSC course 2050 or higher		

IS Emphasis in Finance

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		9 Credits
ECON 2010	Microeconomics	3
MGMT 2340	Business Statistics I	3
FIN 3100	Principles of Finance	3
Elective Requirements:		9 Credits
Choose nine hours from the following courses:		9
FIN 3150	Financial Management (3.0)	
FIN 3400	Investment Management (3.0)	
FIN 4100	Management of Financial Institutions (3.0)	
FIN 4160	Portfolio Management (3.0)	
FIN 4170	Derivative Securities (3.0)	
FIN 4180	International Finance Management (3.0)	

IS Emphasis in French

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Choose 18 credits from the following:		18
FREN 3030	French Composition and Conversation (3.0)	
FREN 3040	Introduction to Literary Genres in French (3.0) *	
or	FREN 3050	Advanced French (3.0) *
FREN 3200	Business French (3.0)	
FREN 351G	Culture and Civilization to 1700 (3.0)	
FREN 352G	Culture and Civilization from 1700 (3.0)	
FREN 3610	French Literature to 1700 (3.0)	
FREN 3620	French Literature from 1700 (3.0)	
FREN 4200	Advanced Business French (3.0)	
FREN 4500	Advanced Writing in French (3.0)	
FREN 490R	Special Topics in French (3.0)	
Footnote:		
* FREN 3040 or 3050 is the prerequisite to all higher-numbered courses listed in Discipline Core Requirements.		

IS Emphasis in German

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Matriculation Requirements:		
1. Students with more than one year of in-country experience should enroll in German 3050.		
Discipline Core Requirements:		18 Credits
Prerequisites (See advisor)		
GER 1010	Beginning German I (4.0)	
GER 1020	Beginning German II (4.0)	
GER 2010	Intermediate German I (4.0)	
GER 202G	Intermediate German II (4.0)	
Complete 18 credits from the following:		18
GER 3030	German Composition and Conversation (3.0)	
GER 3050	Advanced German (3.0)	
GER 3200	Business German (3.0)	
GER 351G	German Culture and Civilization (3.0)	
GER 380R	Topics in German Studies (3.0)	
GER 4200	Advanced Business German (3.0)	
LANG 3000	Language and Culture (3.0)	
LANG 481R	Language Internship (1.0)	

IS Emphasis in Graphic Design

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Prerequisites:		
ART 1120	2D Design (3.0)	
ART 1400	Graphic Computer Applications (3.0)	
ART 1420	Graphic Design I (3.0)	
ART 2400	Production Design (3.0)	
ART 2440	Motion Graphics I (3.0)	
Complete the following courses:		
ART 1410	Typography I	3
ART 2430	Branding I	3
ART 3270	Digital Illustration	3
ART 3440	Motion Graphics II	3
ART 3480	UI/UX Design II	3
DGM 2120	Web Essentials	3

IS Emphasis in History

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Integrated Studies

Discipline Core Requirements:		18 Credits
Complete one of the following:		3
	HIST 3010 The Historian's Craft (3.0)	
or	HIST 3260 History of Utah (3.0)	
or	See Advisor	
	Complete an additional 15 credits from any HIST course 3000 or higher (see advisor)	15

IS Emphasis in Hospitality Management

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete the following:		
	HM 1130 Hotel Operations I	3
	HM 3390 Hotel Operations II	3
Complete 12 credits from the following:		12
	HM 3020 Hospitality Managerial Accounting (3.0)	
	HM 3050 Country Club Management (3.0)	
	HM 3150 Hospitality Finance (3.0)	
	HM 3200 Global Tourism (3.0)	
	HM 3640 Food and Beverage Controls (3.0)	
	HM 3710 Marketing of Hospitality Services (3.0)	
	HM 4550 Hospitality Strategic Management (3.0)	
	HM 3100 Hospitality Law (3.0)	

Note: A minimum of 2.5 GPA in all Woodbury School of Business courses, and no grade lower than a C- required for graduation.

IS Emphasis in Humanities

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		3 Credits
	HUM 3500 Approaches to Humanities	3
Elective Requirements:		15 Credits
Complete 9 credits from the following:		9
	HUM 1010 Humanities Through the Arts (3.0)	
or	HUM 101G Humanities Through the Arts (3.0)	
or	HUM 101H Humanities Through the Arts (3.0)	
	HUM 320R Topics in Humanities (1.0)	
	HUM 325R Area Studies in Humanities (3.0)	
	HUM 330R Period Studies in Humanities (3.0)	
	HUM 3800 Aesthetics (3.0)	
	HUM 400R Humanism and Posthumanism (3.0)	

	HUM 401R Forms and Genres Across the Arts (3.0)	
	HUM 414R Advanced Topics in Humanities (3.0)	
Complete 3 credits from the following:		3
	HUM 2010 World History Through the Arts I (3.0)	
or	HUM 201G World History Through the Arts I (3.0)	
or	HUM 201H World History Through the Arts I (3.0)	
	HUM 203G Art Form Focus I (3.0)	
	HUM 2100 Adventures of Ideas Through 1500 (3.0)	
or	HUM 210H Adventures of Ideas Through 1500 (3.0)	
Complete 3 credits from the following:		3
	HUM 2020 World History Through the Arts II (3.0)	
or	HUM 202G World History Through the Arts II (3.0)	
or	HUM 202H World History Through the Arts II (3.0)	
	HUM 204G Art Form Focus II (3.0)	
	HUM 2200 Adventures of Ideas After 1500 (3.0)	
or	HUM 220H Adventures of Ideas After 1500 (3.0)	

IS Emphasis in Leadership

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		15 Credits
Leadership (Upper Division) Emphasis		
Prerequisites:		
	ENGL 2010 Intermediate Writing Academic Writing and Research (3)	
or	ENGL 2020 Intermediate Writing Science and Technology (3)	
Complete the following:		
	MGMT 3000 Organizational Behavior	3
	MGMT 3020 Individual Action and Corporate Social Responsibility	3
	MGMT 3500 Leadership Theory and Application	3
	HR 3550 Organization Development	3
or	SOC 4400 Social Change (3)	
	MGMT 332G Cross Cultural Communications for International Business	3
or	COMM 4250 Communication and Leadership (3)	
Note: A minimum of 2.5 GPA in all Woodbury School of Business course, and no grade lower than a C-, required for graduation.		
Elective Requirements:		3 Credits
Select at least 3-credits from among the following:		
	AMST 300R Topics in American Studies (3)	
	PJST 4300 Race Gender and Class in Peace and Justice (3)	
	POLS 3300 Introduction to Public Administration (3)	

ENGL 473R	Topics in Gender Studies (3) (must have departmental approval as course matter rotates)	
POLS 420R	Issues and Topics in Political Science (3) (must have departmental approval as course matter rotates)	
REC 4000	Outdoor Leadership (4)	
SOC 3510	Sociology of Work and Occupations (3)	
COMM 3410	Fundamentals of Mediation and Negotiation (3)	
TECH 3400	Project Management (3)	
Or other department approved electives		

IS Emphasis in Military Science

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
MILS 3200	Small Unit Leadership I	3
MILS 3210	Small Unit Leadership II	3
MILS 4200	The Profession of Arms I	3
MILS 4210	The Profession of Arms II	3
Complete one of the following:		3
HIST 345G	The History of World War II (3.0)	
HIST 3520	The United States and Vietnam--1945 to Present (3.0)	
HIST 3740	American Revolution (3.0)	
Complete 3 credits from the following:		3
COMM 3520	Public Relations Case Studies (3.0)	
CJ 3040	Community Policing (3.0)	
ENGL 2310	Technical Communication (3.0)	
DGM 3261	Authoring for Virtual Reality Experiences (3.0)	
DGM 3290	Developing Digital Media for Instruction and Training (3.0)	
MGMT 330G	Survey of International Business (3.0)	
MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
HR 3430	Introduction to Human Resource Management (3.0)	
MGMT 3440	Managing Organizations (3.0)	
POLS 3100	Survey of International Terrorism (3.0)	
POLS 3400	American Foreign Policy (3.0)	
POLS 3600	International Relations of East Asia (3.0)	

Notes:

- Contracted Army ROTC Cadets must also satisfy the leadership laboratory and physical fitness terms of their contract in order to be commissioned officers in the US Army.

- Military Science students who select this emphasis may not choose Physical Education, Outdoor Leadership, Leadership, or Office Management as their second emphasis.

IS Emphasis in Music

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
MUSC 1110	Music Theory I	3
MUSC 1130	Aural Skills I	1
Individual Musicianship Studies		
MUSC 250R	Private Lessons for Music Majors (Repeated 3 times on major instrument or voice) ¹	3
MUSC 251R	Performance Class (Repeated 3 times on major instrument or voice) ¹	3
Complete 8 credits from the following:		8
MUSC 306R	Advanced Keyboard Skills (1)	
MUSC 320R	Masterworks Chorale (1.0)	
MUSC 322R	Chamber Choir (1.0)	
MUSC 327R	Men's Choir (1.0)	
MUSC 328R	Women's Choir (1.0)	
MUSC 330R	Wind Symphony (1.0)	
MUSC 331R	Percussion Ensemble (1)	
MUSC 332R	Jazz Orchestra (1.0)	
MUSC 333R	Small Jazz and Commercial Ensembles (1)	
MUSC 334R	Pep Band (1)	
MUSC 370R	Symphony Orchestra (1.0)	
MUSC 372R	Chamber Orchestra (1)	
MUSC 373R	Advanced Small Ensembles (1)	
MUSC 423R	Opera Workshop (1)	

Footnote:

1-MUSC 250R and 251R require grade B or higher. All other MUSC classes require grade C or higher.

IS Emphasis in Office Management

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Prerequisites (can fulfill elective requirements):		
IM 1010	Basic Computer Applications (3.0)	
IM 2600	Spreadsheet Applications (3.0)	
IM 3700	Database Applications (3.0)	

Integrated Studies

	MKTG 2200	Written Business Communication (3.0)	
Complete the following required courses:			
	INFO 2420	Web Application Design	3
	IM 2300	Information Management Principles	3
	IM 2800	Integrated Software Projects	3
	IM 4300	Information Workflow Management	3
Complete 6 or more credits from the following:			6
	IM 183R	IM Student Chapter (1.0)	
	IM 2500	Graphic Applications (3.0)	
	INFO 1000	E-Commerce Techniques for Small Business (3.0)	
	ACC 3000	Financial Managerial and Cost Accounting Concepts (3.0)	
	HR 3430	Introduction to Human Resource Management (3.0)	
	LEGL 3000	Business Law (3.0)	

Graduation Requirements:

1. A minimum of 2.5 GPA in all discipline core courses with no grade lower than a C- required for graduation.

IS Emphasis in Peace and Justice Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		3 Credits
	PJST 3000	Introduction to Peace and Justice Studies
		3
Elective Requirements:		15 Credits
Complete 15 credits, at least one course from each of the following areas (additional advisor approved courses may be available):		15
Peace, War, and Conflict:		
	PJST 3020	The Ethics of War and Peace (3.0)
	HIST 430G	Violence and Social Conflict in Latin America (3.0)
	AIST 3850	The Struggle for Self-determination--American Indians 1891-present (3.0)
	HIST 4130	Anti-Semitism and the Holocaust (3.0)
	HIST 3540	History of South Africa (3.0)
	HIST 4140	Genocide in the Twentieth Century (3.0)
	POLS 3100	Survey of International Terrorism (3.0)
Justice:		
	CJ 4160	Constitutional Criminal Rights (3.0)
	CJ 4200	Ethical Issues in Criminal Justice (3.0)
	CJ 4700	Comparative Criminal Justice Systems (3.0)
	HIST 3800	Environmental History of the United States (3.0)
	AIST 4600	Contemporary American Indian Political and Social Issues (3.0)

	POLS 3500	International Relations of the Middle East (3.0)
	POLS 3600	International Relations of East Asia (3.0)
	SOC 320G	Race and Minority Relations (3.0)
	AIST 3600	American Indian Policy and Tribal Government (3.0)
	SOC 3460	Political Sociology (3.0)
	SOC 3520	Environmental Sociology (3.0)
	SOC 3700	Social Inequality (3.0)
Mediation/Conflict Resolution:		
	LEGL 3410	Mediation and Negotiation (3.0)
	LEGL 4100	Advanced Mediation (3.0)
	LEGL 3150	Survey of Dispute Resolution (3.0)
	LEGL 4200	Domestic Mediation (3.0)
Philosophy and Religion:		
	PHIL 3530	Environmental Ethics (3.0)
	PHIL 3540	Christian Ethics (3.0)
	PHIL 3700	Social and Political Philosophy (3.0)
	PHIL 3150	Philosophical Issues in Feminism (3.0)

IS Emphasis in Philosophy

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete the following:		
	PHIL 1250	Introduction to Logic and Critical Thinking
		3
Complete 3 credits from the following:		3
	PHIL 1000	Introduction to Philosophy (3.0)
	PHIL 1610	Introduction to Western Religions (3.0)
	PHIL 1620	Introduction to Eastern Religions (3.0)
	PHIL 2110	Ancient Greek Philosophy (3.0)
	PHIL 2130	Medieval Philosophy (3.0)
	PHIL 2150	Early Modern Philosophy (3.0)
	PHIL 290R	Independent Study (1.0)
	PHIL 295R	Directed Readings (1.0)
Complete 12 credits from any 3000 or 4000 level PHIL courses		12

IS Emphasis in Photography

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 21

Discipline Core Requirements:		21 Credits
	ART 1050	Photography I
		3

	ART 2700	Photography II	3
	ART 2710	Documentary Photography	3
	ART 2720	Color Photography	3
Complete 9 credits from the following courses:			9
	ART 371R	Historical Photographic Processes (3.0)	
	ART 471R	Photographic Illustration (3.0)	
	ART 474R	Advanced Photo Studies (3.0)	

IS Emphasis in Psychology

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 19

Discipline Core Requirements:			19 Credits
Prerequisite - Complete the following course:			
	PSY 1010	General Psychology (3.0) **	
Complete the following courses:			
	PSY 2250	Psychology of Interpersonal Relationships (3.0)	
or	PSY 2400	Positive Psychology	3
	BESC 3010	Statistics for the Behavioral Sciences	4
	BESC 3020	Research Methods for the Behavioral Sciences	3
Advanced Research - Complete one of the following courses:			3
	PSY 4010	Experimental Psychology (3.0)	
	SOC 4020	Survey Research Design (3.0)	
	BESC 4040	Applied Behavioral Science Research (3.0)	
	BESC 4050	Clinical Research (3.0)	
Complete 6 additional credits in Psychology (PSY). 3 credits must be upper division.			6
Footnote			
**	PSY 1010 is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.		

IS Emphasis in Religious Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:			18 Credits
Prerequisites (see Advisor)			
	PHIL 1610	Introduction to Western Religions (3.0)	
	PHIL 1620	Introduction to Eastern Religions (3.0)	
or	ANTH 3450	Shamanism and Indigenous Religion (3.0)	
Complete the following:			

	PHIL 3600	Philosophy of Religion	3
	RLST 3650	Approaches to Religious Studies	3
	RLST 366R	Issues in Religious Studies	3
Complete 9 credits from the following:			9
	ANTH 3400	Myth Magic and Religion (3.0)	
	ANTH 3450	Shamanism and Indigenous Religion (3.0)	
	ANTH 3460	Anthropology of Mormonism (3.0)	
	COMM 3780	Mormon Cultural Studies (3.0)	
	ENGL 374G	Literature of the Sacred (3.0)	
	ENGL 3780	Mormon Literature (3.0)	
	HIST 4100	Jewish History (3.0)	
	RLST 3540	Christian Ethics (3.0)	
	RLST 3610	Introduction to Christian Theology (3.0)	
	SOC 3400	Sociology of Religion (3.0)	

IS Emphasis in Russian Studies

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:			3 Credits
	RUS 3050	Advanced Russian	3
Elective Requirements:			15 Credits
Complete 15 credits from the following:			15
	HIST 3650	Imperial Russia--Autocracy to Opposition 1696-1917 (3.0)	
	HIST 366G	The History of Modern Russia--1864 to Present (3.0)	
	HIST 4170	The USSR Under Stalin (3.0)	
	POLS 356G	Comparative Politics of Central Asia (3.0)	
	RUS 266G	Introduction to Russian Culture (3.0)	
	RUS 3200	Business Russian (3.0)	
	RUS 3030	Russian Conversation and Composition I (3.0)	
	RUS 3520	Russian Culture and Civilization (3.0)	
	RUS 366G	Twentieth Century Russian Culture (3.0)	
	RUS 367G	History of Russian Film (3.0)	
	RUS 4110	Translation and Interpretation (3.0)	
	RUS 416G	Post Soviet Russian Media and Film (3.0)	
Or other upper-division advisor-approved courses			

IS Emphasis in Social Sciences

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Integrated Studies

Discipline Core Requirements:		18 Credits
Complete 3 credits from the following courses:		3
ECON 1010	Economics as a Social Science (3.0)	
HIST 1740	US Economic History (3.0)	
GEOG 130G	Survey of World Geography (3.0)	
GEOG 2100	Geography of the United States (3.0)	
GEOG 3010	Economic Geography (3.0)	
GEOG 3430	Political Geography (3.0)	
GEOG 3600	Introduction to Geographic Information Systems (4.0)	
GEOG 3800	Environmental History of the United States (3.0)	
Complete 3 credits from the following courses:		3
AIST 3600	American Indian Policy and Tribal Government	
POLS 1000	American Heritage (3.0)	
POLS 1010	Introduction to Political Science (3.0)	
POLS 1020	Political Ideologies (3.0)	
POLS 1100	American National Government (3.0)	
POLS 1440	Introduction to Middle East Politics (3.0)	
POLS 1800	Our Global Community (3.0)	
POLS 2100	Introduction to International Relations (3.0)	
POLS 2200	Introduction to Comparative Politics (3.0)	
POLS 230G	Introduction to Political Theory (3.0)	
POLS 3000	Political Analysis (3.0)	
POLS 3030	State and Local Government (3.0)	
POLS 3100	Survey of International Terrorism (3.0)	
POLS 3120	Political Parties (3.0)	
POLS 3150	US Presidency (3.0)	
POLS 3200	US Congress (3.0)	
POLS 3500	International Relations of the Middle East (3.0)	
POLS 356G	Comparative Politics of Central Asia (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
POLS 480R	Internship (2.0)	
Complete at least 3 credits from the following courses:		3
HIST 1500	World History to 1500 (3.0)	
HIST 151G	World History from 1500 to the Present (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
HIST 2710	US History since 1877 (3.0)	
Complete an additional 9 credits from any GEOG, HIST, or POLS course 3000 or higher (see advisor).		9

IS Emphasis in Sociology

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 19

Discipline Core Requirements:		19 Credits	
Prerequisite - Complete the following course:			
SOC 1010	Introduction to Sociology (3.0) **		
Complete the following:			
SOC 3000	Contemporary Social Theory	3	
or	SOC 3310	Classical Social Theory (3.0)	
	BESC 3010	Statistics for the Behavioral Sciences	4
	BESC 3020	Research Methods for the Behavioral Sciences	3
Advanced Research - Complete one of the following courses:		3	
SOC 4020	Survey Research Design (3.0)		
BESC 4040	Applied Behavioral Science Research (3.0)		
Complete 6 additional credits in Sociology (SOC). Credits may be lower or upper division.		6	
Footnote			
** SOC 1010 is an introductory course and pre-requisite which may not be used in the 19 hours required for these Integrated Studies Emphases.			

IS Emphasis in Spanish

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Complete 18 credits of SPAN courses numbered 3000 or higher.		18

IS Emphasis in Technology Management

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		18 Credits
Completion of an AA or AS degree with at least 25 credits in a technical specialty.		
Complete 18 credits from the following:		18
TECH 3000	Introduction to Technology Management (3.0)	
TECH 3010	Creativity Innovation and Change Management (3.0)	
TECH 301R	Technology Lecture Series (1.0)	
TECH 3400	Project Management (3.0)	
TECH 3700	Materials Management (3.0)	
TECH 3850	Quality Management in Technology (3.0)	
TECH 405G	Global Ethical and Professional Issues in Technology (3.0)	
TECH 4000	Reliability Engineering and Safety (3.0)	

TECH 4200	Technology Marketing and Customer Relationship Management (3.0)	
TECH 4400	Advanced Project Management (3.0)	
TECH 4420	Organization Information Technologies (3.0)	

IS Emphasis in Theatre Arts

Requirements

For a complete list of program requirements see the [BA Integrated Studies](#) or the [BS Integrated Studies](#).

Total Program Credits: 18

Discipline Core Requirements:		12 Credits
THEA 1033	Acting I	3
THEA 1013	Introduction to Theatre	3
THEA 1713	Script and Text Analysis I	3
THEA 3721	Theatre History and Literature I	3
Elective Requirements:		6 Credits
Complete six credits from 3000 or higher level THEA courses		6

Integrated Studies, B.A.

Requirements

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

Total Program Credits: 123

Matriculation Requirements:		
1. An associate in arts or associate in science degree, or Junior status in college with approximately 60 or more credits.		
2. 2.5 GPA minimum.		
General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
MATH 1055	College Algebra with Preliminaries (5.0)	

MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Any 202G/2020 Foreign Language course		4
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		21 Credits
IS 300R	Introductory Topics in Integrated Studies	3
IS 350R	Topics in Integrated Studies	3
One additional section of 300R or 350R		3
Upper-Division Theory Course: PHIL 3000+ or other approved course		3
Upper-Division Theory Course: PHIL 3000+ or other approved course		3
IS 4980	Integrated Studies Capstone I	3
IS 4990	Integrated Studies Capstone II	3
Emphasis Requirements:		36 Credits
Complete 1 approved Integrated Studies Emphasis (Listed below)		18
Complete another approved Integrated Studies Emphasis (Listed below)		18
Elective Requirements:		30 Credits
One Foreign Language (Foreign Language 202G/2020 course fulfills Humanities Distribution)		12
Complete any 1000-level, or higher, courses		18

Graduation Requirements:

1. Completion of a minimum of 123 semester credits; a minimum of 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements; students must have "C-" or higher in the Discipline Core courses (except for the Foreign Language classes).
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.

Integrated Studies

6. Successful completion of at least one Global/Intercultural course.

Note: All Emphases are required to have a minimum of 9 upper-division credits (with 12 preferred).

Available IS Emphases:

IS Emphasis in Accounting
 IS Emphasis in American Indian Studies
 IS Emphasis in American Sign Language
 IS Emphasis in American Studies
 IS Emphasis in Anthropology
 IS Emphasis in Art History
 IS Emphasis in Biology
 IS Emphasis in Business Management
 IS Emphasis in Cinema Studies
 IS Emphasis in Classical Studies
 IS Emphasis in Communication
 IS Emphasis in Community Health
 IS Emphasis in Computer Networking
 IS Emphasis in Computer Science
 IS Emphasis in Earth Science
 IS Emphasis in Economics
 IS Emphasis in English
 IS Emphasis in Environmental Studies
 IS Emphasis in Ethics
 IS Emphasis in Exercise Science
 IS Emphasis in Finance
 IS Emphasis in French
 IS Emphasis in German
 IS Emphasis in Graphic Design
 IS Emphasis in History
 IS Emphasis in Hospitality Management
 IS Emphasis in Humanities
 IS Emphasis in Leadership
 IS Emphasis in Military Science
 IS Emphasis in Music
 IS Emphasis in Office Management
 IS Emphasis in Peace and Justice Studies
 IS Emphasis in Philosophy
 IS Emphasis in Photography
 IS Emphasis in Psychology
 IS Emphasis in Religious Studies
 IS Emphasis in Russian Studies
 IS Emphasis in Social Sciences
 IS Emphasis in Sociology
 IS Emphasis in Spanish
 IS Emphasis in Technology Management
 IS Emphasis in Theatre Arts

Integrated Studies, B.A.

Careers

Careers:
 For those completing the bachelor degree in Integrated Studies, various opportunities exist for advanced academic and professional degrees (a wide variety of MA and PhD programs, law school, medical and dental schools, MBA, MPA, etc.) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include general problem solving, the ability to comprehend diverse material, to write clearly, to think critically, and to work cooperatively.

Related Careers

- NO MATCH

Integrated Studies, B.S.

Requirements

The individualized nature of the Integrated Studies degree is attractive to students with multiple interests. Students integrate course work in emphases such as biology, earth science, business, health, literature, languages, communication, philosophy, psychology, sociology, anthropology, and the arts. Emphases from computer science and information systems, accounting, technology management, and physical education are also offered as part of this degree.

Total Program Credits: 123

Matriculation Requirements:			
1. An associate in arts or associate in science degree, or Junior status in college with approximately 60 or more credits.			
2. 2.5 GPA minimum.			
General Education Requirements:			36 Credits
Complete the following:			
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			25 Credits
	IS 300R	Introductory Topics in Integrated Studies	3
	IS 350R	Topics in Integrated Studies	3
	One additional section of 300R or 350R		3
	Upper-division theory course: PHIL 3000+ or other approved course		3
	Upper-division theory course: PHIL 3000+ or other approved course		3
	MATH 1210	Calculus I (5.0)	

or	MATH 2040	Principles of Statistics	4
	IS 4980	Integrated Studies Capstone I	3
	IS 4990	Integrated Studies Capstone II	3
Emphasis Requirements:			36 Credits
	Complete 1 approved Integrated Studies Emphasis		18
	Complete another approved Integrated Studies Emphasis		18
Elective Requirements:			26 Credits
	Complete any 1000-level, or higher, course		26

Graduation Requirements:

1. Completion of a minimum of 123 semester credits; a minimum of 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements; students must have "C-" or higher in the Discipline Core courses.
5. Successful completion of at least one Global/Intercultural course.

Note: All Emphases are required to have a minimum of 9 upper-division credits (with 12 preferred).

Available IS Emphases:

- [IS Emphasis in Accounting](#)
- [IS Emphasis in American Indian Studies](#)
- [IS Emphasis in American Sign Language](#)
- [IS Emphasis in American Studies](#)
- [IS Emphasis in Anthropology](#)
- [IS Emphasis in Art History](#)
- [IS Emphasis in Biology](#)
- [IS Emphasis in Business Management](#)
- [IS Emphasis in Cinema Studies](#)
- [IS Emphasis in Classical Studies](#)
- [IS Emphasis in Communication](#)
- [IS Emphasis in Community Health](#)
- [IS Emphasis in Computer Networking](#)
- [IS Emphasis in Computer Science](#)
- [IS Emphasis in Earth Science](#)
- [IS Emphasis in Economics](#)
- [IS Emphasis in English](#)
- [IS Emphasis in Environmental Studies](#)
- [IS Emphasis in Ethics](#)
- [IS Emphasis in Exercise Science](#)
- [IS Emphasis in Finance](#)
- [IS Emphasis in French](#)
- [IS Emphasis in German](#)
- [IS Emphasis in Graphic Design](#)
- [IS Emphasis in History](#)
- [IS Emphasis in Hospitality Management](#)
- [IS Emphasis in Humanities](#)
- [IS Emphasis in Leadership](#)
- [IS Emphasis in Military Science](#)
- [IS Emphasis in Music](#)
- [IS Emphasis in Office Management](#)
- [IS Emphasis in Peace and Justice Studies](#)
- [IS Emphasis in Philosophy](#)
- [IS Emphasis in Photography](#)
- [IS Emphasis in Psychology](#)
- [IS Emphasis in Religious Studies](#)
- [IS Emphasis in Russian Studies](#)
- [IS Emphasis in Social Sciences](#)
- [IS Emphasis in Sociology](#)
- [IS Emphasis in Spanish](#)
- [IS Emphasis in Technology Management](#)

[IS Emphasis in Theatre Arts](#)

**Integrated Studies, B.S.
Careers**

Careers:
For those completing the bachelor degree in Integrated Studies, various opportunities exist for advanced academic and professional degrees (a wide variety of MA and PhD programs, law school, medical and dental schools, MBA, MPA, etc.) and in the business environment. Many employers seek students with skills gained from liberal arts programs like Integrated Studies. These skills include general problem solving, the ability to comprehend diverse material, to write clearly, to think critically, and to work cooperatively.

Related Careers

- NO MATCH

Interdisciplinary Studies Program

Name:	Interdisciplinary Studies
Location:	CB 410f
Telephone:	801-863-6288
Email:	gosharjo@uvu.edu
Web Address:	uvu.edu/idst
Chair:	John C. Goshert

Mission Statement

Interdisciplinary Studies provides a framework for supporting innovative, boundary-crossing inquiry among students and faculty across campus as well as in wider intellectual and social communities. IDST coordinates existing multidisciplinary minor and emphasis programs and provides guidance and support as new programs are envisioned and established. IDST programs promote instructional excellence and offer a variety of courses and events that enhance the overall academic experience at Utah Valley University.

Interdisciplinary Studies

Advisor: Erin Donahoe-Rankin

- **Telephone:** 801-863-6717
- **Office:** CB 506h
- **Email:** donchoer@uvu.edu
- **Appointments:** 801-863-5717

Students who have declared a Bachelor degree may choose to add a minor in the following interdisciplinary areas:

- American Indian Studies
- American Studies
- Chinese Commerce
- Chinese Studies
- Cinema Studies
- Classical Studies
- Deaf Studies
- Environmental Studies
- Gender Studies
- Peace & Justice Studies
- Religious Studies
- Russian Studies

- **American Indian Studies**
- **Coordinator:** David Wilson
- **Email:** wilsondr@uvu.edu
- **Phone:** 863-6916
- **Home Department:** History and Political Science

- **American Studies**
- **Coordinator:** Philip Gordon
- **Email:** philip.gordon@uvu.edu
- **Phone:** 863-8186
- **Home Department:** Communication

- **Chinese Commerce**
- **Coordinator:** Hong Pang
- **Email:** hong.pang@uvu.edu
- **Phone:** 863-8370
- **Home Department:** History and Political Science
- **Office:** CB 203p

- **Chinese Studies**
- **Coordinator:** Alex Yuan
- **Email:** GYuan@uvu.edu
- **Phone:** 863-5199
- **Home Department:** Languages and Cultures
- **Office:** CB 306f

- **Cinema Studies**
- **Coordinator:** Jans Wager
- **Email:** jans.wager@uvu.edu
- **Phone:** 863-8340
- **Home Department:** English and Literature
- **Office:** LA 114J

- **Classical Studies**
- **Coordinator:** Michael Shaw
- **Email:** shawmi@uvu.edu
- **Phone:** 863-6265
- **Home Department:** Philosophy and Humanities
- **Office:** CB 507

- **Deaf Studies**
- **Coordinator:** Dan Hoffman
- **Email:** dhoffman@uvu.edu
- **Phone:** 863-8518 (Languages Department Office)
- **Home Department:** Languages and Cultures
- **Office:** CB 306

- **Environmental Studies**
- **Coordinator:** Dan Stephen
- **Email:** daniel.stephen@uvu.edu
- **Phone:** 863-8584
- **Home Department:** Earth Sciences
- **Office:** PS 224

- **Gender Studies**
- **Coordinator:** Numsiri Kunakemakorn
- **Email:** numsirk@uvu.edu
- **Phone:** 863-5469
- **Home Department:** Secondary Education
- **Office:** ME 112J

- **Peace and Justice Studies**
- **Coordinator:** Lynn England
- **Email:** lynn.england@uvu.edu
- **Phone:** 863-8119
- **Home Department:** History and Political Science

- **Religious Studies**
- **Coordinator:** Brian Birch
- **Email:** brian.birch@uvu.edu
- **Phone:** 863-6363
- **Home Department:** Center for the Study of Ethics
- **Office:** CB 411

- **Russian Studies**
- **Coordinator:** Frederick White
- **Email:** frederick.white@uvu.edu
- **Phone:** 863-8361
- **Home Department:** Academic Affairs—Engaged Learning
- **Office:** BA 211c

HIST 382G	Indians of Eastern North America (3.0)	
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FACULTY

- BIRCH, Brian** Professor
- ELDREDGE, Bryan K.** Professor
- GOSHERT, John** Professor
- KUNAKEMAKORN, Numsiri** Associate Professor
- LIANG, Samuel Y.** Associate Professor
- MINCH, Michael L.** Professor
- PANG, Hong** Assistant Professor
- SHAW, Michael M.** Professor
- STEPHEN, Daniel A.** Associate Professor
- WAGER, Jans** Professor

Course Descriptions

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Degrees & Programs

American Indian Studies, Minor

Requirements

The American Indian Studies minor provides students with academic experiences, skills, and strategies to understand the scope of American indigenous communities within scholarly and applied contexts.

Total Program Credits: 18

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		18 Credits
AIST 180G	Introduction to American Indian Studies (3.0)	3
AIST 4600	Contemporary American Indian Political and Social Issues (3.0)	3
Complete four of the following:		12
AIST 327G	Indians of Utah (3.0)	
AIST 358G	American Indian Health Policy (3.0)	
AIST 3600	American Indian Policy and Tribal Government (3.0)	
AIST 3810	Pre-Columbian America (3.0)	
AIST 3830	Indians of the Great Plains (3.0)	
AIST 384G	Indians of the Southwest (3.0)	
AIST 3850	The Struggle for Self-determination--American Indians 1891 to present (3.0)	
AIST 490R	Special Topics in American Indian Studies (3.0)	
ANTH 3300	Development and Rural Societies (3.0)	
ANTH 3450	Shamanism and Indigenous Religion (3.0)	
BESC 4030	Introduction to Practice Evaluation and Grant Writing (3.0)	
ENGL 357G	Native American Literature (3.0)	

Graduation Requirements:

1. Overall GPA of 2.0 or above.
2. Residency hours--minimum of 12 credits counting towards the minor through attendance at UVU.

American Indian Studies, Minor Careers

Careers:
After completion of the minor, graduates will have received an academic background that will prepare them for relevant employment in tribal governments and other Indian organizations, state or federal agencies which serve Indian tribes and organizations, and private sector enterprises that work with Indian tribes and organizations. Graduates will have received the basic knowledge and analytical skills to enable them to pursue graduate degrees in fields related to American Indian Studies. The American Indian Studies minor will emphasize the traditional acquisition of knowledge and skills that apply to American Indian communities, a vital sense of service to these communities, and an enthusiastic pursuit of what these communities can contribute to the academy in knowledge, methods, and ethics.

Related Careers

- Area, Ethnic, and Cultural Studies Teachers, Postsecondary

American Studies, Minor

Requirements

American Studies provides students with an interdisciplinary approach to the study of American cultures. Through examination of historical, religious, and literary texts, political institutions, popular culture, film, art, and the physical landscape, students will explore how Americans create meaning in their lives and make sense of the world in which they live. By encouraging students to approach their majors from the perspective of several overlapping disciplines, American Studies courses will foster deeper critical thinking and broader contextualization.

Total Program Credits: 21

Matriculation Requirements:		
1. Completion of 30 hours of credit.		
2. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		9 Credits
AMST 2000	Introduction to American Studies	3
AMST 300R	Topics in American Studies (3 credits, must be repeated)	6
Elective Requirements:		12 Credits
Complete twelve hours of advisor-approved electives. Elective courses should reflect a specific topical or thematic focus and must be approved by an American Studies advisor.		12

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above.
2. Residency hours--minimum of 12 credit hours through course attendance at UVU.

American Studies, Minor Careers

Careers:
An American Studies minor will offer students a strong complement to a wide variety of majors by making available an additional course of study that will help them to balance the focus of a traditional discipline with the fresh insights and breadth of interdisciplinary approaches.

Interdisciplinary Studies Program

Related Careers

- English Language and Literature Teachers, Postsecondary

Chinese Commerce, Minor

Requirements

The Chinese Commerce minor focuses on important aspects of Chinese commerce, language and culture. This program is designed to combine an understanding of the social, political, historical, and economic factors that make China one of the leading international powers today. As such, the minor offers proficiency in the Chinese language, augmented with cultural knowledge of the country and an introduction to international business practices. As an interdisciplinary minor, the program draws on faculty expertise from various disciplines and includes varied perspectives.

Total Program Credits: 22

Matriculation Requirements:		
1. Completion of 30 hours of credit.		
Discipline Core Requirements:		13 Credits
CHIN 2010	Intermediate Chinese I	4
LEGL 430G	International Business Law	3
MGMT 4620	Developing Business in China	3
POLS 2220	Introduction to Chinese Commerce	3
Elective Requirements:		9 Credits
In addition to the 9 credit core requirement, students must complete 9 hours of advisor-approved upper division electives from the following:		
CHIN 202G	Intermediate Chinese II (4.0)	
CHIN 3050	Advanced Chinese (3.0)	
CHIN 3200	Business Chinese I (3.0)	
CHIN 3510	Chinese Culture and Civilization (3.0)	
CHST 362G	Traditional Chinese History (3.0)	
CHST 363G	Modern Chinese History (3.0)	
MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
CHIN 4200	Business Chinese II (3.0)	
Or other approved electives		

Chinese Commerce, Minor Careers

Chinese Commerce, Minor Careers

Related Careers

- Area, Ethnic, and Cultural Studies Teachers, Postsecondary

Chinese Studies, Minor

Requirements

The Chinese Studies minor provides students with academic experiences, skills, and strategies to understand contemporary China, including its language, culture, ethics, politics, economy and history, within scholarly and applied contexts.

Total Program Credits: 22

Matriculation Requirements:		
1. Completion of 30 hours of credit.		
Discipline Core Requirements:		7 Credits

CHST 200G	Introduction to Chinese Studies	3
CHIN 2010	Intermediate Chinese I	4
Elective Requirements:		15 Credits
In addition to the 4 credit core requirement, students must complete 15 hours of advisor-approved upper division electives from the following:		
CHIN 202G	Intermediate Chinese II (4.0)	
CHIN 3510	Chinese Culture and Civilization (3.0)	
CHST 362G	Traditional Chinese History (3.0)	
CHST 363G	Modern Chinese History (3.0)	
CHST 373G	Classical Chinese Literature (3.0)	
CHST 375G	Modern Chinese Literature (3.0)	
CHST 416G	Chinese Culture and Film (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
other advisor-approved course		

Chinese Studies, Minor Careers

Careers:
After completion of the minor, students will be prepared for relevant employment in the rapidly growing private sector enterprises that do business with or in China, in organizations and government agencies in China or related to China, and in academia. The Chinese Studies minor provides the basic knowledge and analytical skills to enable students to pursue graduate degrees in fields related to Chinese Studies.

Related Careers

- Area, Ethnic, and Cultural Studies Teachers, Postsecondary

Cinema Studies, Minor

Requirements

Cinema Studies focuses on analyzing film and the screen arts as some of the most important cultural productions of the twenty-first century. Students approach movies as cultural texts and gain an understanding of the social, political, historical, and industrial contexts that produce cinema. The minor broadens students' knowledge of how these texts shape and are shaped by culture. As an interdisciplinary program, cinema studies draws on faculty expertise from various disciplines and includes global and historical perspectives. The minor also builds personal knowledge and professional competencies.

Total Program Credits: 18

Matriculation Requirements:		
1. Completion of 30 hours of credit.		
2. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		9 Credits
CINE 2150	Critical Introduction to Cinema Studies	3
or ENGL 2150	Critical Introduction to Cinema Studies (3.0)	
CINE 3150	Film Theory	3
or ENGL 3150	Film Theory (3.0)	
Complete one of the following:		3
CINE 2311	Film History I	
THEA 2311	Film History I (3.0)	
CINE 2312	Film History II	
THEA 2312	Film History II (3.0)	

Elective Requirements:	9 Credits
In addition to the 9 core requirements, students must complete an additional 9 hours of advisor-approved electives. Six (6) of the 9 hours must be upper-division (see coordinator for a list of approved electives).	9

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above.
2. Residency hours--minimum of 12 credit hours through course attendance at UVU.

Cinema Studies, Minor

Careers

Careers:
Careers are possible in business, advertising, public relations, technical writing, educational media, film making, television, media sales & distribution, film archiving and preservation, popular journalism, and entertainment law.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Producers and Directors

Classical Studies, Minor

Requirements

Classical Studies focuses on the language, philosophy, art, and culture of Ancient Greece and Ancient Rome.

Total Program Credits: 18

Matriculation Requirements:		
1. Completion of 30 hours of credit.		
Discipline Core Requirements:		9 Credits
PHIL 2110	Ancient Greek Philosophy	3
HIST 3110	Greek History	3
HIST 3130	Roman Republic (3.0)	
or HIST 3140	Roman Empire	3
Elective Requirements:		9 Credits
Complete an additional 9 hours of electives. The following list of courses has been approved for the Classical Studies Minor. If a course that is not represented on the following list has sufficient classical studies related content, the student may seek approval from the Classical Studies Coordinator to have the course count toward the minor.		9
ANTH 2030	Archeological Method and Theory (3.0)	
ARTH 2710	History of Art to the Renaissance (3.0)	
ARTH 3020	Classical Art and Architecture History (3.0)	
ENGL 2230	Myths and Legends in Literature (3.0)	
ENGL 3610	Medieval Literature (3.0)	
ENGL 376G	World Literature (3.0)	
HIST 3130	Roman Republic (3.0)	
HIST 3140	Roman Empire (3.0)	
HONR 2000	Ancient Legacies (3.0)	
HUM 2010	World History Through the Arts I (3.0)	
HUM 2500	Introduction to Ancient Greek I (6.0)	
HUM 2510	Introduction to Ancient Greek II (6.0)	

PHIL 2130	Medieval Philosophy (3.0)	
PHIL 386R	Topics in Ancient Philosophy (3.0)	
LATN 1010	Beginning Latin I (4.0)	
LATN 1020	Beginning Latin II (4.0)	
LATN 2010	Intermediate Latin I (4.0)	
LATN 2020	Intermediate Latin II (4.0)	
LATN 3010	Readings in Latin (3.0)	
GRK 1010	Beginning Ancient Greek I (4.0)	
GRK 1020	Beginning Ancient Greek II (4.0)	
GRK 2010	Intermediate Ancient Greek I (4.0)	
GRK 2020	Intermediate Ancient Greek II (4.0)	
GRK 3010	Readings in Ancient Greek (3.0)	

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above.
2. Residency hours--minimum of 12 credit hours through course attendance at UVU.

Classical Studies, Minor

Careers

Careers:
The Classical Studies minor is ideal for students who are interested in career paths that are informed by an understanding of ancient cultures, such as archeology, art history, law, museum studies, philosophy, etc.

Related Careers

- Historians

Deaf Studies, Minor

Requirements

In the Deaf Studies minor, students will examine elements of what culturally-Deaf people in America have traditionally called "the Deaf-World" with special attention to the framework of meaning from within which culturally-Deaf people interpret what it means to be Deaf. This minor challenges students to approach cultural descriptions critically, and provides a historical, cultural, and linguistic foundation.

Total Program Credits: 21

Matriculation Requirements:		
1. Declaration of a major in a bachelor degree program at UVU		
2. Completion of ASL 202G or equivalent		
Discipline Core Requirements:		21 Credits
Complete the following:		
ASL 3050	Advanced American Sign Language	3
ASL 3530	Modern Deaf Culture	3
ASL 3610	ASL Literature I	3
Complete additional 12 credits of upper-division ASL or LANG coursework		12

Graduation Requirements:

1. Overall GPA of 2.0 or above.
2. Residency hours--minimum of 12 credits counting towards the minor through attendance at UVU.

Interdisciplinary Studies Program

Deaf Studies, Minor

Careers

Careers:
The Deaf Studies minor prepares students to become certified interpreters, ASL and Deaf studies teachers, and/or to pursue graduate work in deaf education and a variety of other disciplines, and to engage in any number of professional fields related to deafness.

Related Careers

- Interpreters and Translators

Environmental Studies, Minor

Requirements

Environmental Studies explores the complex links between human culture and the natural world. The program challenges students to critically examine both the ecological and social context of environmental issues and the numerous connections between natural and social systems, from local to global scales. It is undeniable that humans have a profound impact on the environment. To have the greatest positive influence, we must seek knowledge of the structure and function of natural systems, as well as an understanding of how culture affects the way we perceive nature.

Total Program Credits: 18

Matriculation Requirements:		
1. Completion of 30 hours of credit		
2. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		3 Credits
ENST 3000	Introduction to Environmental Studies	3
Elective Requirements:		15 Credits
Electives (15 credit hours). Complete 5 of the following courses of 4 different prefixes from at least 2 different Schools:		15
College of Humanities and Social Sciences		
ANTH 3150	Culture Ecology and Health (3.0)	
or	HLTH 3150	Culture Ecology and Health (3.0)
	COMM 3130	The Culture of Nature and Technology (3.0)
	ENST 3520	Environmental Sociology (3.0)
or	SOC 3520	Environmental Sociology (3.0)
	ENVT 3630	Introduction to Geographic Information Systems (4.0)
or	GEOG 3600	Introduction to Geographic Information Systems (4.0)
	GEOG 3010	Economic Geography (3.0)
	GEOG 3800	Environmental History of the United States (3.0)
or	HIST 3800	Environmental History of the United States (3.0)
	HIST 3260	History of Utah (3.0)
	HIST 4330	Machines in the Making of History (3.0)
	PHIL 3530	Environmental Ethics (3.0)
	POLS 1800	Our Global Community (3.0)
	SOC 3450	Environmental Sociology (3.0)
Any other advisor approved courses		
College of Science and Health		
	ANTH 3150	Culture Ecology and Health (3.0)

or	HLTH 3150	Culture Ecology and Health (3.0)	
	BIOL 1010	General Biology (3.0)	
	BIOL 2500	Environmental Biology (3.0)	
	BIOL 3700	General Ecology (3.0)	
	BIOL 3800	Conservation Biology (3.0)	
	BIOL 4500	Principles of Evolution (3.0)	
	ENVT 3280	Environmental Law (3.0)	
	ENVT 3630	Introduction to Geographic Information Systems (4.0)	
or	GEOG 3600	Introduction to Geographic Information Systems (4.0)	
	ENVT 3850	Environmental Policy (3.0)	
	GEO 1220	Historical Geology (3.0)	
	GEO 3210	Environmental Geology (4.0)	
	METO 3100	Climate and the Earth System (3.0)	
Any other advisor approved courses			
Woodbury School of Business			
	ECON 3040	Environmental Economics (3.0)	
Any other advisor approved courses			

Environmental Studies, Minor

Careers

Careers:
A minor in Environmental Studies is useful for students seeking academic or professional paths in public policy on the environment. Environmental professionals currently work for government agencies at local, state, and federal levels, and also in many careers in both the public and private sectors.

Related Careers

- Environmental Engineering Technicians

Gender Studies, Minor

Requirements

The Gender Studies minor allows students to study the extent to which gender and gender relations are socially influenced. Students will examine the ways in which conceptions of masculinity and femininity directly impact social and political institutions and practices, cultural expressions (such as art, communication, media, literature, music and film), law, education, business, scientific inquiry, interpersonal relations, sexuality and family. The minor broadens students' understanding of their chosen major and career path while facilitating the recognition of gender dynamics in their own lives.

Total Program Credits: 18

Matriculation Requirements:		
1. Completion of 30 hours of credit.		
2. Admitted to a bachelor degree program at UVU		
Discipline Core Requirements:		6 Credits
ENGL 2730	Introduction to Gender Studies	3
ENGL 473R	Topics in Gender Studies	3
Elective Requirements:		12 Credits
Complete an additional 12 hours of electives. If a course that is not represented on the following list has sufficient gender related content, the student may seek approval from the Gender Studies Coordinator to have the course count toward the minor. 6 credits must be upper-division.		12

ECFS 3320	Gender Perspectives in Education (3.0)	
ENGL 3710	Literature by Women (3.0)	
HIST 320G	Women in American History to 1870 (3.0)	
HIST 321G	Women in American History since 1870 (3.0)	
HLTH 2800	Human Sexuality (3.0)	
HLTH 3240	Womens Health Issues (3.0)	
PES 1405	Women's Safety Awareness and Self-Defense (1.0)	
PHIL 3150	Philosophical Issues in Feminism (3.0)	
PHIL 3160	Gender Values Knowledge and Reality (3.0)	
PHIL 3450	Philosophy of Childhood (3.0)	
PSY 2800	Human Sexuality (3.0)	
PSY 3100	Psychology of Gender (3.0)	
SOC 2370	Gender Roles (3.0)	
ENGL 217G	Race Class and Gender in US Cinema (3.0)	
IDST 4900	Interdisciplinary Studies Capstone (3.0)	
IDST 281R	Interdisciplinary Studies Internship (1.0)	
IDST 481R	Interdisciplinary Studies Internship (1.0)	

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above.
2. Residency hours--minimum of 12 credit hours through course attendance at UVU.

Gender Studies, Minor Careers

Gender Studies, Minor Careers

Related Careers

- Postsecondary Teachers, All Other

Peace and Justice Studies, Minor

Requirements

The Peace & Justice Studies minor approaches phenomena empirically and theoretically associated with violence/nonviolence and injustice/justice, including peace, justice, mediation and conflict resolution, philosophy and religion. These topics are investigated at multiple levels from the realm of the personal and familial, to international structures, conventions, institutions, and history.

Total Program Credits: 21

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU		
Discipline Core Requirements:		6 Credits
PJST 3400	Conflict Transformation Resolution and Sustainable Peace	3
PJST 4900	Peace and Justice Studies Capstone	3
PJST 3000	Introduction to Peace and Justice Studies	3
Elective Requirements:		12 Credits
Complete 12 credit hours selected from the following list:		12
Peace, War, and Conflict:		
PJST 3020	The Ethics of War and Peace (3.0)	
PJST 3030	The Scientific Study of War and Peace (3.0)	

PJST 3040	Peace in Historical Context (3.0)	
PJST 3100	Introduction to Human Security (3.0)	
PJST 3200	Global Poverty Facts Causes and Solutions (3.0)	
PJST 3300	Community Development (3.0)	
PJST 4200	Advanced Poverty Studies:Global Problems and Policies (3.0)	
PJST 4300	Race Gender and Class in Peace and Justice (3.0)	
AIST 3850	The Struggle for Self-determination--American Indians 1891 to present (3.0)	
HIST 3540	History of South Africa (3.0)	
HIST 4130	Anti-Semitism and the Holocaust (3.0)	
HIST 4140	Genocide in the Twentieth Century (3.0)	
POLS 3100	Survey of International Terrorism (3.0)	
POLS 3650	Model United Nations (3.0)	
Justice:		
AIST 3600	American Indian Policy and Tribal Government (3.0)	
AIST 4600	Contemporary American Indian Political and Social Issues (3.0)	
HIST 3800	Environmental History of the United States (3.0)	
POLS 3500	International Relations of the Middle East (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
SOC 320G	Race and Minority Relations (3.0)	
SOC 3460	Political Sociology (3.0)	
SOC 3520	Environmental Sociology (3.0)	
SOC 3700	Social Inequality (3.0)	
Mediation/Conflict Resolution:		
LEGL 3410	Mediation and Negotiation (3.0)	
LEGL 4100	Advanced Mediation (3.0)	
LEGL 3150	Survey of Dispute Resolution (3.0)	
LEGL 4200	Domestic Mediation (3.0)	
Philosophy and Religion:		
CNST 4795	Civil Rights and Civil Liberties (3.0)	
PHIL 3530	Environmental Ethics (3.0)	
PHIL 3540	Christian Ethics (3.0)	
PHIL 3700	Social and Political Philosophy (3.0)	
PHIL 3150	Philosophical Issues in Feminism (3.0)	
PJST 475R	Issues in Peace and Justice Studies (3.0)	
POLS 4500	International Conflict and Security (3.0)	

Peace and Justice Studies, Minor Careers

Careers:
Because matters of peace and justice are of perennial - and perhaps growing - concern, students who earn a Peace & Justice Studies minor will place themselves in a multi-faceted market of career opportunities including law, social work, counseling, mediation and conflict resolution, development, diplomacy, nonprofit management, education, various forms of government employment, and more.

Interdisciplinary Studies Program

Related Careers

- NO MATCH

Religious Studies, Minor

Requirements

The Religious Studies minor fosters and facilitates an interdisciplinary approach to the academic study of religion. Due to its influential role at the local, national, and international levels, religion requires careful study utilizing academic methods employed in the examination of other cultural institutions. This includes the study of the history, theology, literature, folklore, etc., of various religions in an effort to study religion as a cultural phenomenon. The program is intended to serve our students and community by deepening our understanding of religious beliefs and practices in a spirit of open inquiry. Its aim is neither to endorse nor to undermine the claims of religion, but to create an environment in which various issues can be engaged from a variety of perspectives and methodologies.

Total Program Credits: 21

Matriculation Requirements:		
1. Completion of 30 hours of credit		
2. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		12 Credits
PHIL 1610	Introduction to Western Religions (3.0)	
or PHIL 1620	Introduction to Eastern Religions (3.0)	
or ANTH 3450	Shamanism and Indigenous Religion	3
RLST 3650	Approaches to Religious Studies	3
RLST 366R	Issues in Religious Studies	3
PHIL 3600	Philosophy of Religion	3
Elective Requirements:		9 Credits
Complete 9 credits of electives from the list below or as approved by advisor.		9
ANTH 3400	Myth Magic and Religion (3.0)	
ANTH 3450	Shamanism and Indigenous Religion (3.0)	
ANTH 3460	Anthropology of Mormonism (3.0)	
COMM 3780	Mormon Cultural Studies (3.0)	
ENGL 374G	Literature of the Sacred (3.0)	
ENGL 3780	Mormon Literature (3.0)	
HIST 4100	Jewish History (3.0)	
PHIL 3540	Christian Ethics (3.0)	
PHIL 3610	Introduction to Christian Theology (3.0)	
SOC 3400	Sociology of Religion (3.0)	

Religious Studies, Minor Careers

Careers:
A Religious Studies minor will complement a variety of majors and contribute to a well-rounded educational experience by exposing students to multiple disciplines.

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Russian Studies, Minor

Requirements

The Russian Studies minor will provide students with a foundational understanding of the language as well as an introduction to the social, political, historical, and economic factors that make Russia one of the leading international powers today. Students will attain a general knowledge and understanding of Russian culture, society and history from pre-historic times to the present, have a basic familiarity with Russia's position in and influence on world politics and economics, and demonstrate the ability to transcend the boundaries between national languages and disciplines by the use of comparative and collaborative approaches to scholarship.

Total Program Credits: 22

Matriculation Requirements:		
1. Completion of 30 hours of credit.		
Discipline Core Requirements:		4 Credits
RUS 2010	Intermediate Russian I	4
Elective Requirements:		18 Credits
Complete 18 hours of advisor-approved electives from the following, 9 credits must be upper-division:		18
HIST 3650	Imperial Russia--Autocracy to Opposition 1696-1917 (3.0)	
HIST 366G	The History of Modern Russia--1864 to Present (3.0)	
HIST 4170	The USSR Under Stalin (3.0)	
POLS 356G	Comparative Politics of Central Asia (3.0)	
RUS 202G	Intermediate Russian II (4.0)	
RUS 266G	Introduction to Russian Culture (3.0)	
RUS 3050	Advanced Russian (3.0)	
RUS 3200	Business Russian (3.0)	
RUS 3030	Russian Conversation and Composition I (3.0)	
RUS 3520	Russian Culture and Civilization (3.0)	
RUS 366G	Twentieth Century Russian Culture (3.0)	
RUS 367G	History of Russian Film (3.0)	
RUS 4110	Translation and Interpretation (3.0)	
RUS 416G	Post Soviet Russian Media and Film (3.0)	
other upper-division advisor-approved courses		

Russian Studies, Minor Careers

Russian Studies, Minor Careers

Related Careers

- Area, Ethnic, and Cultural Studies Teachers, Postsecondary

Internship Services

Name:	Internship Services
Location:	LC 409
Telephone:	801-863-6589 or 801-863-6364
Email:	internships@uvu.edu
Web Address:	uvu.edu/internships
Director:	Niki Swan

Utah Valley University encourages students to extend learning beyond the classroom by participating in internships or other professional engagement activities. Students who participate in professionally engaged activities:

- network with peers, mentors, faculty, employers, community leaders, and experienced associates
- acquire the knowledge, skills, and attitudes to be successful and versatile professionals and citizens
- are confident, competent, creative, and proactive in becoming intellectually engaged in their personal pursuits, careers, and local and global communities

To qualify for internship academic credit the experience must:

- relate to the student's major or professional field of study
- integrate academic and experiential learning
- be at a professional level of responsibility appropriate for academic credit
- include written agreements between the student, employer, academic department and University that outline the responsibilities of the parties

All departments in the University have integrated internship experience in their curriculum either as a required component or as an elective. Generally these courses are designated as 281R (lower division) or 481R (upper division). Some departments require an associated pre-requisite and/or co-requisite.

Each college/school within the university has an Internship Coordinator and approval for enrollment is obtained from them. A list of current coordinators can be obtained from the Internship Services website or by contacting the specific academic department directly. Students declared as a University Studies major, or those students who would like to explore career options should consider enrolling in an exploratory internship through the Department of Student Leadership and Success Studies (SLSS).

All students enrolled for internship credit must complete a required online orientation. The Online Internship Orientation can be found at uvu.edu/internships/student/orientation.html.

Academic credit for internships is granted according to learning objectives with the academic department and the number of hours a student works during the semester. The number of required hours may vary from department to department, but a minimum of 60 hours of work is required for every credit hour received.

Grading for internship may be a letter grade or CR (credit granted) or NC (credit not granted) depending on the department. The maximum number of internship credits that may be applied toward a certificate or graduation requirement is determined by the individual department.

Internship Services and The Career Development Center

The University is committed to assisting students in making intelligent and informed career choices. Internship Services Coordinators and/or The Career Development Center Office can assist students in investigating internship opportunities by providing employer leads and information, helping students construct resumes, and assisting with interview preparation.

International Internships

- **Telephone:** 801-863-5743
- **Web:** http://www.uvu.edu/internships/findinternships/international_intern.html

Internship Services and the Office of International and Multicultural Studies offer students a variety of international internship opportunities in a number of countries. Students have the option of setting up their own international experience or requesting the university to set up the internship for them. Students who go on an international internship will gain practical experience relevant to their major while experiencing a foreign culture, working on substantive projects, and learning how to work with a team facing real-world deadlines.

Students planning on participation in an international internship should download an application form from the Internship Services website and obtain approval signatures from Internship Services and the Office of International and Multicultural Studies. The student is also required to participate in pre-departure meetings to obtain insurance, cultural recommendations and security clearance. It is recommended that students desiring international experience plan at least six months in advance by meeting with Internship Services.

Languages and Cultures

Name:	Languages and Cultures
Location:	CB 306
Telephone:	801-863-8518
Email:	Amelia.Riding@uvu.edu
Web Address:	uvu.edu/lang
Chair:	Sara Ulloa
Chair UVU Email:	ulloasa@uvu.edu

Mission Statement

The mission of the Department of Languages and Cultures at Utah Valley University is to prepare students to interact effectively in a global community by acquiring competent communicative skills, and developing sensitivity toward cultural differences. By engaging with linguistic and cultural artifacts such as history, literature, and contemporary social structures and systems, language and culture students learn to think critically and behave ethically as they mature in linguistic and cultural literacy. This department prepares students to enter the global work force, further graduate studies and enjoy lifelong enrichment.

Languages and Cultures

- **Administrative Contact:** Amelia Riding, Admin II
- **Telephone:** 801-863-8518
- **Email:** Amelia.Riding@uvu.edu
- **Mail Stop:** 167

- **Administrative Contact:** Sally Walker, Admin III
- **Telephone:** 801-863-7232
- **Email:** Sally.Walker@uvu.edu
- **Mail Stop:** 167

- **Advising:** Sarah Lindsey
- **Telephone:** 801-863-7629
- **Email:** SarahL@uvu.edu

- **Advising:** Kyle Hicken
- **Telephone:** 801-863-8047
- **Email:** Kyle.Hicken@uvu.edu

- **Program Coordinator Contact:** Dan Hoffman, ASL & Deaf Studies
- **Telephone:** 801-921-4371
- **Email:** DHoffman@uvu.edu

- **Program Coordinator Contact:** Alex Yuan, Chinese
- **Telephone:** 801-863-5199
- **Email:** gyuan@uvu.edu

- **Program Coordinator Contact:** Walter Temple, French
- **Telephone:** 801-863-7262
- **Email:** walter.temple@uvu.edu

- **Program Coordinator Contact:** Jeff Packer, German
- **Telephone:** 801-863-8626
- **Email:** packerje@uvu.edu

- **Program Coordinator Contact:** Yasuko Saito, Japanese
- **Telephone:** 801-863-5650
- **Email:** SaitoYa@uvu.edu

- **Program Coordinator Contact:** Debora Ferreira, Portuguese
- **Telephone:** 801-863-6919
- **Email:** Debora.Ferreira@uvu.edu

- **Program Coordinator Contact:** Sara Ulloa, Russian
- **Telephone:** 801-863-6257

- **Email:** ulloasa@uvu.edu
- **Program Coordinator Contact:** Jorge Nisguritzer, Spanish
- **Telephone:** 801-863-8231
- **Email:** nisgurja@uvu.edu

The Language Lab, located at LA 003g, is open Monday-Friday and offers a variety of resources for students to practice language skills and get help using computers & software, tutoring one-on-one, in groups and watching DVD movies. To schedule appointments with tutors, call 801-863-7257.

DEPARTMENT CHAIR

ULLOA, Sara *Associate Professor*

FACULTY

- BOAM, Dale H.** *Associate Professor*
BRISCOE, Gregory G. *Associate Professor*
CHAPARRO, Ana Maria *Lecturer*
CHRISTENSEN, Tammy *Lecturer*
DE DIOS, Mari *Lecturer*
ELDREDGE, Bryan K. *Professor*
FERREIRA, Debora R.S. *Professor*
HARDMAN, Jamie *Lecturer*
JARASHOW, Benjamin *Instructor*
JENSEN, Douglas C. *Associate Professor*
LINDHEIMER, Rebeca *Lecturer*
LOPEZ-AGUILERA, Ana M. *Assistant Professor*
NISGURITZER, Jorge *Associate Professor*
PACKER, Jeffrey *Associate Professor*
SAITO, Yasuko *Lecturer*
TEMPLE, Walter S. *Assistant Professor*
ULLOA, Sara *Associate Professor*
WILBER, Jason *Lecturer*
YOUNG, Travas *Visiting Assistant Professor*
YUAN, Guofang *Associate Professor*

Course Descriptions

American Sign Language.....	585
Chinese.....	613
French.....	706
German.....	714
Japanese.....	741
Languages.....	742
Portuguese.....	790
Russian.....	801
Spanish.....	806

Degrees & Programs

Chinese Language, Minor

Requirements

Total Program Credits: 18

Matriculation Requirements:		
1. Complete lower division Chinese courses [1010, 1020, 2010, and 202G] or attain a similar level of language mastery through other means. Native speakers begin at the upper division level.		
Discipline Core Requirements:		9 Credits
CHIN 3050	Advanced Chinese	3
CHIN 3510	Chinese Culture and Civilization	3
CHIN 4050	Chinese Language and Culture	3
Elective Requirements:		9 Credits
In addition to the 9 core requirements, students must complete 9 hours of advisor-approved upper division electives from the following:		9
CHST 362G	Traditional Chinese History (3.0)	
CHST 363G	Modern Chinese History (3.0)	
CHST 373G	Classical Chinese Literature (3.0)	
CHST 375G	Modern Chinese Literature (3.0)	
CHST 416G	Chinese Culture and Film (3.0)	
CHIN 4100	Translation and Interpretation (3.0)	
POLS 3600	International Relations of East Asia (3.0)	
other advisor-approved course		

Chinese Language, Minor Careers

Chinese Language, Minor Careers

Related Careers

- Instructional Coordinators

French, Minor

Requirements

Earn this minor in conjunction with any UVU Bachelor Degree Major offered. The minor consists of 18 credits of Upper Division coursework (3050 required). For more information contact the Language Department advisor.

Total Program Credits: 18

Matriculation Requirements:		
1. Complete ENGL 2010 and 30 hours of college-level courses other than French with a minimum GPA of 2.0		
2. Complete lower division French courses (1010, 1020, 2010, and 202G) or receive the equivalent through experiential credit (does not apply to native speakers).		
3. Students with significant residency abroad should register for French 3050 as a first course toward the minor.		
4. Be admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		3 Credits
FREN 3050	Advanced French	3
Elective Requirements:		15 Credits
Complete 15 credits from among the following:		15
FREN 3030	French Composition and Conversation (3.0)	
FREN 3040	Introduction to Literary Genres in French (3.0)	
FREN 3200	Business French (3.0)	
FREN 351G	Culture and Civilization to 1700 (3.0)	
FREN 352G	Culture and Civilization from 1700 (3.0)	
FREN 3610	French Literature to 1700 (3.0)	

FREN 3620	French Literature from 1700 (3.0)	
FREN 4200	Advanced Business French (3.0)	
FREN 4500	Advanced Writing in French (3.0)	
FREN 490R	Special Topics in French (3.0)	
LANG 3000	Language and Culture (3.0)	
or LANG 481R	Language Internship (1.0)	
or LANG 4200	Methods of Teaching a Foreign Language (3.0)	
or LANG 490R	Special Topics in Languages (1.0)	

Graduation Requirements:

1. Completion of Baccalaureate Degree.
2. A minimum grade of "C" must be earned in all minor courses.

French, Minor Careers

French, Minor Careers

Related Careers

- Foreign Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
- Interpreters and Translators

German, Minor

Requirements

Pair German with an additional language of your choosing. This minor can be earned in conjunction with any Bachelor degree major that UVU offers.

Total Program Credits: 18

Matriculation Requirements:		
1. Complete ENGL 2010 and 30 hours of college-level courses other than German with a minimum GPA of 2.0		
2. Complete lower division German courses [1010, 1020, 2010, and 202G] or attain a similar level of language mastery through other means. Native speakers begin at the upper division level.		
3. Be admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		3 Credits
GER 3050	Advanced German	3
Elective Requirements:		15 Credits
Complete 15 credits from among the following:		15
GER 3030	German Composition and Conversation (3.0)	
GER 3200	Business German (3.0)	
GER 351G	German Culture and Civilization (3.0)	
GER 380R	Topics in German Studies (3.0)	
GER 4200	Advanced Business German (3.0)	
LANG 3000	Language and Culture (3.0)	
or LANG 3010	Introduction to Linguistics (3.0)	
or LANG 4200	Methods of Teaching a Foreign Language (3.0)	
or LANG 481R	Language Internship (1.0)	
other advisor-approved course		

Graduation Requirements:

1. Completion of Baccalaureate Degree.
2. A minimum grade of "C" must be earned in all minor courses.

Languages and Cultures

German, Minor

Careers

German, Minor Careers

Related Careers

- Foreign Language and Literature Teachers, Postsecondary
- Interpreters and Translators

Languages, Minor

Requirements

The Minor in Languages requires 9 credits upper division course work in one language and 11 credits of intermediate level course work in another language (prerequisites will vary from student to student).

Total Program Credits: 20

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Complete ENGL 2010 and 30 hours of college-level courses other than Language courses with a minimum GPA of 2.0 2. Complete lower-division courses (1010, 1020, 2010, and 202G/2020) in one foreign language or receive the equivalent through experiential credit (does not apply to native speakers). 3. Be admitted to a bachelor degree program at UVU. 4. Courses taken for credit in the Languages minor may not apply to any other program. See Advisor. 		
Discipline Core Requirements:		20 Credits
Complete the following two requirements:		
LANGUAGE 1		
	A 3050 course in any foreign language	3
	6 credits numbered higher than 3050 in the same language	6
or	LANG 3000 Language and Culture (3.0)	
LANGUAGE 2		
	11 credits in courses numbered 2000 or higher in a SECOND foreign language.	11

Graduation Requirements:

1. Completion of Baccalaureate Degree.
2. Any grade below a "C" (2.0) in a Languages Minor course will not be accepted.

Languages, Minor

Careers

Languages, Minor Careers

Related Careers

- Foreign Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
- Interpreters and Translators

Latin American Studies, Minor

Requirements

The minor in Latin American Studies (LAS) provides a comprehensive and interdisciplinary understanding of Latin American and Latino culture, history, and language. This is particularly important for preparing UVU students to be fully competitive in the global marketplace since two of the top ten trading partners of the United States, Mexico and Brazil, are located in Latin America. Students learn to comprehend the unique geographical and historical complexities of Latin America and its place in the world, as well as the multifaceted cultural backgrounds of their fellow

students whose families are from that vast area. A minor in LAS complements a diverse number of majors giving our students the opportunity to prepare for a future working with either Utah's growing Latino population or beyond the state pursuing opportunities abroad.

Total Program Credits: 18

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			9 Credits
	GEOG 2500	Geography of Latin America and the Caribbean	3
	HIST 204G	Colonial Latin America	3
or	HIST 205G	Modern Latin America (3.0)	
Complete 3 credits from the following:			3
	PORT 202G	Intermediate Portuguese II (4.0)	
	SPAN 202G	Intermediate Spanish II (4.0)	
	Any PORT 3000 level or higher		
	Any SPAN 3000 level or higher		
Elective Requirements:			9 Credits
Choose 9 credits from the following:			9
	ANTH 3340	Peoples and Cultures of Mexico (3.0)	
	ANTH 3350	Andean Prehistory (3.0)	
	ANTH 3370	History and Ethnography of Andean Societies (3.0)	
	COMM 319G	Intercultural Communication Encounters (3.0)	
	ENGL 373R	Literature of Cultures and Places (3.0)	
	ENGL 476G	Multi-ethnic Literature in America (3.0)	
	HIST 430G	Violence and Social Conflict in Latin America (3.0)	
	MGMT 330G	Survey of International Business (3.0)	
	MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
	MGMT 458R	Advanced Topics in International Business (1.0)	
	MGMT 4870	International Management (3.0)	

	MKTG 259R	Current Topics in Marketing (1.0)	
	POLS 420R	Issues and Topics in Political Science (3.0)	
	PORT 3200	Business Portuguese (3.0)	
	PORT 3430	Masterpieces of Brazilian Film (3.0)	
	PORT 352G	Brazilian Culture and Civilization (3.0)	
	PORT 3610	Brazil through Literature and Film--1500-1900 (3.0)	
	PORT 3620	Modern Brazil through Literature/Music/Film--1900-1945 (3.0)	
	PORT 3630	Post-Modern Brazil through Literature/Music/Film--1945-today (3.0)	
	PORT 490R	Special Topics in Brazilian Studies (3.0)	
	SPAN 3200	Business Spanish (3.0)	
	SPAN 3630	Spanish American Literature to 1880 (3.0)	
	SPAN 3640	Spanish American Literature from 1880 (3.0)	
	SPAN 380R	Community Engagement in Spanish (1.0)	
	SPAN 412R	Spanish for the Professions (3.0)	
	SPAN 4200	Advanced Business Spanish (3.0)	
	SPAN 460R	Topics in Hispanic Literature (3.0)	
	SPAN 4660	Contemporary Spanish American Literature (3.0)	
	SPAN 484R	Special Topics in Hispanic Studies (1.0)	
	or other advisor-approved course.		

Graduation Requirements:

1. A minimum grade of "C" must be earned in all minor courses. *

Footnote
* Completion of Baccalaureate Degree.

Latin American Studies, Minor

Careers

There are many domestic and international professional opportunities available with a minor in LAS, including diplomatic service, employment with non-governmental organizations, graduate study in a variety of fields, political or legislative consulting or lobbying, public and private education (K-12), law, medicine, translation and interpretation, international business, journalism, engineering, agriculture, law enforcement and the judicial system, human resources, information systems, etc.

Related Careers

- Area, Ethnic, and Cultural Studies Teachers, Postsecondary

Portuguese, Minor

Requirements

Total Program Credits: 18

Matriculation Requirements:			
1. A minimum grade of "C" must be earned in all minor courses. *			
Discipline Core Requirements:			12 Credits
	PORT 3050	Advanced Portuguese	3
	PORT 3610	Brazil through Literature and Film--1500-1900	3
	PORT 3620	Modern Brazil through Literature/Music/Film--1900-1945	3
	PORT 3630	Post-Modern Brazil through Literature/Music/Film--1945-today	3
Elective Requirements:			6 Credits
A total of 6 credits from the following:			6
	PORT 3200	Business Portuguese (3.0)	
	PORT 3430	Masterpieces of Brazilian Film (3.0)	
	PORT 352G	Brazilian Culture and Civilization (3.0)	
	PORT 490R	Special Topics in Brazilian Studies (3.0)	
	LANG 281R	Language Internship (1.0)	
or	LANG 3000	Language and Culture (3.0)	
or	LANG 3010	Introduction to Linguistics (3.0)	
or	LANG 481R	Language Internship (1.0)	
or	LANG 490R	Special Topics in Languages (1.0)	
or	LANG 4200	Methods of Teaching a Foreign Language (3.0)	
	or other advisor-approved course.		

Languages and Cultures

Footnote
* Completion of Baccalaureate Degree.

Portuguese, Minor Careers

Related Careers

- Foreign Language and Literature Teachers, Postsecondary
- Interpreters and Translators

Spanish, Minor

Requirements

This minor can be earned in conjunction with any Bachelor degree major that UVU offers. The minor consists of 18 credit hours of upper division coursework. There are some specific courses required and a number of electives so be sure to contact the advisor for more information.

Total Program Credits: 18

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Complete ENGL 2010 and 30 hours of college-level courses other than Spanish with a minimum GPA of 2.0 2. Complete lower division Spanish courses (1010, 1020, 2010, and 202G) or receive the equivalent through experiential credit (does not apply to native speakers). 3. Admitted to a bachelor degree program at UVU. 		
Discipline Core Requirements:		18 Credits
	SPAN 3040	Spanish Conversation and Composition II (3.0)
or	SPAN 3050	Advanced Spanish
	SPAN 351G	Culture and Civilization--Spain (3.0)
or	SPAN 352G	Culture and Civilization--Spanish America
	SPAN 4050	Special Topics in Grammar Usage and Style
Complete 9 credits from any upper-division SPAN or LANG courses not previously taken.		9

Graduation Requirements:

1. Completion of Baccalaureate Degree.
2. Any grade below a "C" (2.0) in a Spanish Minor course will not be accepted.

Spanish, Minor Careers

Spanish, Minor Careers

Related Careers

- Interpreters and Translators
- Foreign Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
- Interpreters and Translators

ASL and Deaf Studies Education, B.A.

Requirements

This four-year degree prepares students to teach ASL & Deaf Studies in secondary education (grades 7-12) settings. Students take major courses from the Languages department and licensure courses through the School of Education. This degree requires separate application to the School of Education. Bachelor of Arts in ASL and Deaf Studies Education

Total Program Credits: 120

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement. 2. GPA of 3.0 or higher with no grade lower than a C in content area courses. 3. Completion of all General Education requirements and the majority of content area courses. 4. Pass group interview directed by the Secondary Teacher Education Department. 5. Pass LiveScan Criminal Background Check. 		
General Education Requirements:		36 Credits
	ENGL 1010	Introduction to Writing
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
	MATH 1050	College Algebra
or	MATH 1055	College Algebra with Preliminaries (5.0)
Choose one of the following:		3
	HIST 1700	American Civilization (3.0)
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
	HIST 1740	US Economic History (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values
	HLTH 1100	Personal Health and Wellness
or	PES 1097	Fitness for Life (2.0)
Distribution Courses:		
	Humanities Distribution	
	Social/Behavioral Science	
	Fine Arts Distribution	
	Biology	
	Physical Science	
	Biology or Physical Science	
Discipline Core Requirements:		68 Credits
	ASL 3050	Advanced American Sign Language *
	ASL 3310	Foundations of Interpreting
or	ASL 4410	ASL Linguistics (3.0)
	ASL 3510	History of Deaf People to 1817
or	ASL 3520	History of Deaf People after 1817 (3.0)
	ASL 3530	Modern Deaf Culture
	LANG 4200	Methods of Teaching a Foreign Language
	ASL 3610	ASL Literature I
	ASL 4610	ASL Literature II
Any other 3000+ class with an ASL or LANG prefix.		15
Education Courses:		
	EDSC 3000	Educational Psychology

EDSP 3400	Exceptional Students	2
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
Elective Requirements:		16 Credits
Complete 16 credits of any courses 1000-level or higher.		16

Graduation Requirements:

1. Complete a minimum of 120 credit hours with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Completion of General Education, ASL & Deaf Studies core, and elective requirements.
4. Meet residency and maximum years in program requirements and any other requirements stated in the University Catalog or established by the department.
5. Successful completion of at least one Global/Intercultural course.

NOTES:

Students should frequently review their program with faculty or department advisor.

Any grade below a C (2.0) in an ASL & Deaf Studies core or elective course will not be accepted toward the major. Students must maintain an overall GPA of 3.0 or higher and meet all other graduation requirements stipulated in the university catalog. Post-BA/BS students must take 30 hours of education courses, fulfill the MATH 1050 requirement, and meet all stipulated deadlines.
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Footnote
* Requires ASL skills equivalent to those expected at the completion of ASL 202G. See advisor for more information.

ASL and Deaf Studies Education, B.A. Careers

Careers:
This four-year degree prepares students to teach ASL & Deaf Studies in secondary education (grades 7-12) settings.

Related Careers

- Special Education Teachers, Preschool
- Special Education Teachers, Kindergarten and Elementary School
- Special Education Teachers, Middle School
- Special Education Teachers, Secondary School
- Special Education Teachers, All Other
- Interpreters and Translators

Deaf Studies - General Deaf Studies Emphasis, B.A.

Requirements

This four-year degree is a liberal arts degree that provides in-depth study into all facets of the Deaf-World. Students choose among two emphases. There is no special

application process, but students should declare their major by contacting the academic advisor for the Languages Department.

This emphasis provides an opportunity for students to gain advanced ASL skills and thorough knowledge of the Deaf-World. Graduates with this emphasis will be prepared to work in various fields related to deafness. They will also work in fields that are not specifically tied to the Deaf-World but which require the skills and knowledge cultivated through the acquisition of any liberal arts degree. This emphasis is also terrific preparation for graduate school in any number of disciplines.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Choose one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
HIST 1740	US Economic History (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
or PHIL 205G	Ethics and Values	
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Fine Arts Distribution ²		3
Humanities Distribution ¹		3
Social/Cultural Anthropology Social Science ³		3
Biology ⁴		3
Physical Science ⁵		3
Biology or Physical Science		3
Discipline Core Requirements:		35 Credits
ASL 2030	Advanced Fingerspelling	1
ASL 2040	ASL Numbers ⁶	1
ASL 3000	Technology for Deaf Studies	3
ASL 3050	Advanced American Sign Language ⁷	3
ASL 3310	Foundations of Interpreting	3

Languages and Cultures

ASL 3530	Modern Deaf Culture	3
ASL 3610	ASL Literature	3
ASL 385G	Audism/Linguicism/Oppression	3
ASL 4410	ASL Linguistics	3
ASL 4550	Multicultural Deaf Lives	3
ASL 4560	Deaf People and the Law	3
ASL 4800	Deaf Culture Studies	3
LANG 3000	Language and Culture	3
Emphasis Requirements:		27 Credits
Complete the following courses:		
ASL 3510	History of Deaf People to 1817	3
ASL 3520	History of Deaf People after 1817	3
ASL 3710	Deaf View/Image Art--De'VIA	3
ASL 3750	Deaf Cinema	3
ASL 4450	Deaf World Discourse	3
ASL 4520	Deaf People and Disability Studies	3
ASL 4530	Deaf Peoples of the World	3
ASL 4610	ASL Literature II	3
ASL 4890	Deaf Studies Senior Capstone	3
Emphasis Elective Requirements:		23 Credits
Complete 15 credits: Complete 15 credits; Any 3000- or 4000-level ASL and Deaf Studies courses that are not part of the core and are not emphasis requirements. LANG 481R , LANG 3010 , AMST 2000 , ANTH 101G , ANTH 3360 , ANTH 3500 , ANTH 3850 , BESC 107G , PJST 3000 , PJST 4300 , SOC 1010 , SOC 3000 , SOC 320G , SOC 3700 , SOC 4400		15
Complete 8 credits from any courses		8

Graduation Requirements :

- 120 credit hours (minimum of 40 upper division)
- Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and ASL elective requirements.
- Completion of General Education requirements
- Completion of Deaf Studies major core and elective requirements
- Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- Successful completion of at least one Global/Intercultural course.

Note: Students should frequently review their program with faculty or department advisor.

Footnote	
1	Highly recommend: COMM 1020 Public Speaking or COMM 1050 Speech Comm or PHIL 1000 Intro to Philosophy or HUM 1010 Humanities Through the Arts
2	Highly recommend: DANC 1010 Dance as an Art Form
3	Highly recommend: ANTH 101G Social Cultural Anthropology, MGMT 1010 Introduction to Business, Or CJ 1010 Introduction to Criminal Justice.
4	Highly recommend: ZOO 1090 Introduction to Human Anatomy and Physiology or ZOO 2320 Human Anatomy.
5	Highly recommend: CHEM 1010 Introduction to Chemistry or PHYS 1010 Elementary Physics.
6	Requires ASL skills equivalent to those expected at the completion of ASL 1020 Beginning American Sign Language II LH. See advisor for more information.
7	Requires ASL skills equivalent to those expected at the completion of ASL 202G Intermediate American Sign Language II HH GI. See advisor for more information.

Deaf Studies - General Deaf Studies Emphasis, B.A. Careers

Careers:
Many of your clients will be Deaf or Hard-of-Hearing. It will be to your immense advantage to be able to communicate with them directly. As a NURSE, one will be able to communicate with your Deaf patients while doing routine tasks. ELEMENTARY SCHOOL TEACHERS will possibly have Deaf children mainstreamed in their classroom. MENTAL HEALTH WORKERS, SOCIAL WORKERS, and COUNSELORS who know and understand Deaf people are in high demand. In fact, Deaf people have sought out service providers who use ASL and helped augment the number of clients utilizing a particular service provider. ADVOCATES such as LAWYERS or LOBBYISTS who work with legislators will be able to use their knowledge and skill in ASL when parts of legislation affect Deaf people. Even if you don't plan to focus on serving Deaf people, you can probably expand your client base by offering expertise in ASL. SALES ASSISTANTS in stores and shops will often encounter Deaf customers seeking to make purchases. In fact, a background in ASL will be useful in absolutely any field or employment.

Related Careers

- Interpreters and Translators

Deaf Studies - Interpreting Emphasis, B.A.

Requirements

This four-year degree is a liberal arts degree that provides in-depth study into all facets of the Deaf-World. Students choose among two emphases. There is no special application process, but students should declare their major by contacting the academic advisor for the Languages Department.

Emphasis #2: Interpreting:

This emphasis provides an opportunity for students and focuses on helping them to gain interpreting skills and certification. There is currently an intense shortage of interpreters for the Deaf across the United States. UVU offers two distinct programs to prepare students to enter the interpreting profession: The Novice-Level Interpreter Preparation Program (NLIPP) and the Advanced Certification Interpreter Preparation Program (ACIPP). These programs can accommodate students of any skill level and courses fit right into the Deaf Studies degree requirements.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Choose one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	

	HIST 1740	US Economic History (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
or	PHIL 205G	Ethics and Values	
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Fine Arts Distribution ²		3
	Humanities Distribution ¹		3
	Social/Cultural Anthropology Social Science ³		3
	Biology ⁴		3
	Physical Science ⁵		3
	Biology or Physical Science		3
Discipline Core Requirements:			35 Credits
	ASL 2030	Advanced Fingerspelling	1
	ASL 2040	ASL Numbers ⁶	1
	ASL 3000	Technology for Deaf Studies	3
	ASL 3050	Advanced American Sign Language ⁷	3
	ASL 3310	Foundations of Interpreting	3
	ASL 3530	Modern Deaf Culture	3
	ASL 3610	ASL Literature	3
	ASL 385G	Audism/Linguicism/Oppression	3
	ASL 4410	ASL Linguistics	3
	ASL 4550	Multicultural Deaf Lives	3
	ASL 4560	Deaf People and the Law	3
	ASL 4800	Deaf Culture Studies	3
	LANG 3000	Language and Culture	3
Emphasis Requirements:			39 Credits
Complete the following courses:			
	ASL 3320	Physiology of Interpreting	3
	ASL 3330	Cross-Cultural Communication and Interpreting	3
	ASL 3350	Consecutive Interpreting	3
	ASL 3360	Simultaneous Interpreting	3
	ASL 3370	Sign to Voice Interpreting	3
	ASL 3380	Transliteration	3
	ASL 3520	History of Deaf People after 1817	3
	ASL 4330	Visual Linguistic Analysis for Interpreters	3
	ASL 3340	Interpreting as a Profession	3
or	ASL 3390	Professional Issues in Interpreting	
	ASL 4370	Ethics for Interpreters	3
	LANG 481R	Language Internship	3
Complete 6 credits from the following:			6
	ASL 4380	Applying Interpreting Skills to Coursework--Medical (3)	
	ASL 4381	Applying Interpreting Skills to Coursework--Law (3)	

	ASL 4382	Applying Interpreting Skills to Coursework--Education (3)	
	ASL 4383	Applying Interpreting Skills to Coursework--Community (3)	
Emphasis Elective Requirements:			11 Credits
Complete 6 credits; Any 3000- or 4000-level ASL & Deaf Studies courses that are not part of the core and are not emphasis requirements			6
Complete 5 credits; Any 3000+ class with the following prefixes: ACC, AIST, AMST, ANTH, ARCH, ARTH, ASTR, BESC, BIOL, BMED, BOT, BTEC, CA, CHEM, C.J, CNST, COMM, CS, ECE, ECFS, ECON, EDEC, EDEL, EDSC, EDUC, ENGL, ENGR, ESEC, ES, FAMS, FAMT, FIN, FSCI, GEOG, GEO, HIST, HLTH, HUM, IM, INFO, LEGL, MATH, METO, MGMT, MICR, MKTG, NURS, NUTR, PHIL, PHYS, PJST, POLS, PSY, SOC, SOSOC, STAT, SUDC, SW, TECH, THEA, ZOO			5

Graduation Requirements:

- 120 credit hours (minimum of 40 upper division)
- Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and ASL elective requirements.
- Completion of General Education requirements
- Completion of Deaf Studies major core and elective requirements
- Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- Successful completion of at least one Global/Intercultural course.

Note: Students should frequently review their program with faculty or department advisor.

Footnote	
1	Highly recommend: COMM 1020 Public Speaking or COMM 1050 Speech Comm or PHIL 1000 Intro to Philosophy or HUM 1010 Humanities Through the Arts
2	Highly recommend: DANC 1010 Dance as an Art Form
3	Highly recommend ANTH 101G Soc/Cult Anth or MGMT 1010 Intro to Business or CJ 1010 Intro to Criminal Justice
4	Highly recommend: ZOO 1090 Intro to Human Anatomy and Physiology or ZOO 2320 Human Anatomy
5	Highly recommend: CHEM 1010 Intro to Chemistry or PHYS 1010 Elem Physics
6	Requires ASL skills equivalent to those expected at the completion of ASL 1020 Beginning American Sign Language II. See advisor for more information.
7	Requires ASL skills equivalent to those expected at the completion of ASL 202G Intermediate American Sign Language II. See advisor for more information.

Deaf Studies - Interpreting Emphasis, B.A. Careers

Careers:
Interpreters work in a wide variety of settings: educational, medical, community, theater, legal, and job-related.

Related Careers

- Interpreters and Translators

Languages and Cultures

Secondary French Education, B.A.

Requirements

This four-year degree prepares students to teach French in secondary education settings. It also prepares students to qualify for the Dual Language Immersion (DLI) Endorsement. Students take major courses from the Department of Languages and Cultures and licensure and endorsement courses through the School of Education. This degree requires separate application to the School of Education.

Total Program Credits: 121

Matriculation Requirements:		
<ol style="list-style-type: none"> ACT exam required (re-take required if score is 7 years or older); composite score of 21 or higher, English 20 or higher, and Math 19 or higher. GPA of 3.0 or higher with no grade lower than a C in content area courses. Completion of all General Education requirements and the majority of content area courses. Pass LiveScan Criminal Background Check. Exit interview with French Program Director. Other requirements as determined by the Department of Languages and Cultures 		
General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:		4
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
Choose one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
HIST 1740	US Economic History (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Social/Behavioral Science		3
Humanities Distribution [non-language courses only]		3
Physical Science		3
Biology or Physical Science		3
Fine Arts Distribution		3
Discipline Core Requirements:		59 Credits
FREN 3050	Advanced French	3
FREN 4050	Special Topics in Grammar Usage and Style	3
FREN 3610	French Literature to 1700	3
FREN 351G	Culture and Civilization to 1700	3
or FREN 352G	Culture and Civilization from 1700 (3.0)	
FREN 4500	Advanced Writing in French	3

FREN 3620	French Literature from 1700	3
FREN 4900	French Capstone Seminar	3
FREN 4100	Teaching French Grammar	3
LANG 4200	Methods of Teaching a Foreign Language	3
Education Courses:		
EDSP 3400	Exceptional Students	2
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
Elective Requirements:		26 Credits
General Elective --SLSS 1000 recommended		3
Complete 8 credits of any course numbered 1000-level or higher.		8
Complete 15 credits of upper division (3000-4000 level) French course above 3050		15

Graduation Requirements:

- Complete a minimum of 121 credit hours with a minimum of 40 upper-division credits.
- Overall grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
- Completion of General Education, French core, and elective requirements.
- Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- Successful completion of at least one Global / Intercultural course.

Secondary French Education, B.A.

Careers

Careers:
Language expertise has specific application to a career in language teaching or translation. It becomes an attending, and often essential, skill in any business or government activity which involves domestic or international non-English speaking communities. Additionally, businesses and governments are increasingly global enterprises, while U.S. citizens are becoming more multilingual, which means the demand for language expertise is increasing throughout all facets of social interaction, particularly, but not limited to industry, commerce, and education.

Related Careers

- Education Teachers, Postsecondary
- Foreign Language and Literature Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Spanish Education, B.A.

Requirements

This four-year degree prepares students to teach Spanish in Secondary education (grades 7-12) settings. Students take major courses from the Languages and Cultures department and licensure courses through the School of Education. This degree requires separate application to the School of Education.

Total Program Credits: 122

Matriculation Requirements:		
1.	ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.	
2.	GPA of 3.0 or higher with no grade lower than a C in content area courses.	
3.	Completion of all General Education requirements and the majority of content area courses.	
4.	Pass group interview directed by the Secondary Teacher Education Department.	
5.	Pass LiveScan Criminal Background Check.	
6.	Other requirements as determined by the Department of Languages	
General Education Requirements:		36 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
	MATH 1050	College Algebra 4
or	MATH 1055	College Algebra with Preliminaries
Choose one of the following:		3
	HIST 1700	American Civilization (3.0)
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
	HIST 1740	US Economic History (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values 3
	HLTH 1100	Personal Health and Wellness 2
or	PES 1097	Fitness for Life (2.0)
Distribution Courses:		
	Humanities Distribution [non-language courses only] 3	
	Social/Behavioral Science 3	
	Fine Arts Distribution 3	
	Biology 3	
	Physical Science 3	
	Biology or Physical Science 3	
Discipline Core Requirements:		59 Credits
	SPAN 3040	Spanish Conversation and Composition II 3
or	SPAN 3050	Advanced Spanish (3.0)
	SPAN 351G	Culture and Civilization--Spain 3
or	SPAN 352G	Culture and Civilization--Spanish America (3.0)
	ACTFL Oral Proficiency Interview (OPI) Score of Advanced Low or higher.	
	SPAN 4050	Special Topics in Grammar Usage and Style 3
	SPAN 4500	Advanced Research and Academic Writing in Spanish 3
Any two upper division Spanish Literature courses		6
	SPAN 4100	Teaching Spanish Grammar 3

	SPAN 4900	Capstone Seminar	3
	LANG 4200	Methods of Teaching a Foreign Language	3
Education Courses:			
	EDSP 3400	Exceptional Students	2
	EDSC 3000	Educational Psychology	3
	EDSC 3050	Foundations of American Education	2
	EDSC 3250	Instructional Media	2
	EDSC 4200	Classroom Management I	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10
Elective Requirements:			27 Credits
Complete 15 credits of any upper-division SPAN or LANG courses not previously taken.			15
Complete 12 credits of any courses 1000-level or higher.			12

Graduation Requirements:

1. Complete a minimum of 122 credit hours with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Completion of General Education, Spanish core, and elective requirements.
4. Meet residency and maximum years in program requirements and any other requirements stated in the College Catalog or established by the department.
5. Successful completion of at least one Global/Intercultural course.

NOTES: Students should frequently review their program with faculty or department advisor.

Post-BA/BS students must take 30 hours of education courses, fulfill the Math 1050 requirement, and meet all stipulated deadlines.

Spanish Education, B.A. Careers

Careers:	
Language expertise has specific application to a career in language teaching or translation. It becomes an attending, and often essential, skill in any business or government activity which involves domestic or international non-English speaking communities. Additionally, businesses and governments are increasingly global enterprises, while U.S. citizens are becoming more multilingual, which means the demand for language expertise is increasing throughout all facets of social interaction, particularly, but not limited to industry, commerce, and education.	

Related Careers

- Education Teachers, Postsecondary
- Foreign Language and Literature Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Spanish, B.A.

Requirements

This four-year degree is a liberal arts degree that provides in-depth study into all facets of the Spanish language and culture. There is no special application process, but students should declare their major by contacting the academic advisor for the Languages department.

Languages and Cultures

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Choose one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Choose one of the following:		3	
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
	HIST 1740	US Economic History (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	Humanities Distribution [non-language courses only]		3
	Social/Behavioral Science		3
	Fine Arts Distribution		3
	Biology		3
	Physical Science		3
	Biology or Physical Science		3
Discipline Core Requirements:		21 Credits	
	SPAN 3040	Spanish Conversation and Composition II	3
or	SPAN 3050	Advanced Spanish (3.0)	
	SPAN 351G	Culture and Civilization--Spain	3
or	SPAN 352G	Culture and Civilization--Spanish America (3.0)	
	SPAN 3060	Oral Proficiency (1.0)	
or	Oral Proficiency Interview (OPI)		
	SPAN 4500	Advanced Spanish Writing	3
	Any two upper division Spanish literature courses		6
	SPAN 4050	Special Topics in Grammar Usage and Style	3
	SPAN 4900	Capstone Seminar	3
Elective Requirements:		64 Credits	

Complete 21 credits of any upper-division SPAN or LANG courses not previously taken.	21
Any course 1000 level or higher *	43

Graduation Requirements:

- 120 credit hours (minimum of 40 upper division)
- Minimum cumulative G.P.A. of 2.0, with no grade lower than a "C" for all core and SPAN elective requirements.
- Completion of General Education requirements.
- Completion of Spanish major core and elective requirements.
- Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- Successful completion of at least one Global/Intercultural course.
- Students should frequently review their program with faculty or department advisor.

Footnote	
*	For eligible students, the lower division courses 1010, 1020, 2010, and 202G/2020, worth 16 hours will apply here.

Spanish, B.A. Careers

Careers:
Language expertise has specific application to a career in language teaching or translation. It becomes an attending, and often essential, skill in any business or government activity which involves domestic or international non-English speaking communities. Additionally, businesses and governments are increasingly global enterprises, while U.S. citizenry is becoming more multilingual, which means the demand for language expertise is increasing throughout all facets of social interaction, particularly, but not limited to industry, commerce, and education.

Related Careers

- Interpreters and Translators
- Foreign Language and Literature Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education
- Interpreters and Translators

Literacies and Composition

Name:	Literacies & Composition
Location:	LA 234
Telephone:	801-863-6387
Email:	ltoro@uvu.edu
Web Address:	www.uvu.edu/litcomp
Chair:	Joshua Hilst

Literacies & Composition

- **Department Chair:** Joshua Hilst
- **Office:** LA 234f
- **Telephone:** 801-863-6349
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- **Administrative Support:** Laurie Toro
- **Office:** LA 234a
- **Telephone:** 801-863-6387
- **Email:** ltoro@uvu.edu
- **Academic Advisor:** Chelsea Austin
- **Office:** LC 404d
- **Telephone:** 801-863-8596
- **Email:** Chelsea.Austin@uvu.edu

The Literacies and Composition Department understands that all students bring with them rich and diverse histories, knowledge, skills, and literacies that can be applied to the literacy work they will take part in as college students at UVU. We are committed to providing opportunities for students to recognize their own oral, written, and visual literacies as relevant to the academic setting and to helping them develop these literacies for the work they will do in the academy, in the workplace, and in their personal lives.

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of academic achievement and challenges them with higher expectations. The programs and departments of Literacies and Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, Writing Center, Academic Tutoring, Math Lab, and First Year Experience & Student Retention promote interdisciplinary partnerships as students transition into university academics.

- **Dean:** Forrest Williams
- **Office:** LA 210c
- **Telephone:** 801-863-8494
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- **Office:** LA 210
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- **Office:** LA 210e
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- **Assistant Dean:** Jessica Awtrey
- **Office:** LA 210d
- **Telephone:** 801-863-6766
- **Email:** jessica.awtrey@uvu.edu

FACULTY

BENDER, Melinda A. *Professor*
DUTTAGUPTA, Chitrallekha *Associate Professor*
GARCIA, Elena G. *Assistant Professor*
GOODWIN, Benjamin G. *Lecturer*
HENRY, Thomas *Associate Professor*
HILST, Joshua *Associate Professor*
PRESTON, Jacqueline *Associate Professor*
RYSDAM, Sheri *Assistant Professor*

Course Descriptions

English Basic Composition..... 678

Marketing

Name:	Marketing
Location:	WB 203
Telephone:	801-863-8098
Email:	Ann.Mecham@uvu.edu
Web Address:	uvu.edu/woodbury/marketing/
Chair:	Paul Dishman

Mission Statement

Through exceptional business education, we help students become successful professionals who build our community.

Core Themes - (University Alignment: Student Success, Engagement, Inclusivity, and Seriousness)

1. Delta: Maximize student improvement through engaged learning.
2. Placement: Help students obtain and succeed in careers aligned with their goals.
3. Scholarship with Impact: Produce and promote research that improves business education and practice.
4. Reach: Serve as many people in our community as we can through increased efficiency and inclusive outreach.

In December, 2006, The UVU School of Business earned its international accreditation from AACSB International - The Association to Advance Collegiate Schools of Business.

Marketing

Career Opportunities

For those trained in marketing, career opportunities are available in advertising, brand and product management, customer affairs, industrial marketing, international marketing, marketing research and intelligence, new product planning, marketing logistics (physical distribution), public relations, purchasing, retail management, internet marketing, and sales and sales management.

Job Outlook

Almost a third of all Americans are employed in marketing-related positions. From large corporations to small companies, both in manufacturing and service areas, firms rely on marketers.

Programs

Students in Marketing may receive a Bachelor of Science, Bachelor of Arts, or a Minor in Marketing. Also available is a Bachelor of Science in Digital Marketing and a Certificate of Proficiency in Professional Sales.

Woodbury School of Business

Advisement Center:

- **Office:** WB 257
- **Telephone:** 801-863-8032

Dean: Norman S. Wright

- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu

DEPARTMENT CHAIR

DISHMAN, Paul *Associate Professor*

FACULTY

ANDERSEN, Richelle *Lecturer*

BAIRD, Deborah K. *Associate Professor*

BETTRIDGE, Amy *Lecturer*

BOTT, Laurie *Professional in Residence*

DEVEY, Alyssa *Lecturer*

DISHMAN, Paul *Associate Professor*

FARNWORTH, Xanthe *Lecturer*

GARDINER, S. Paige *Assistant Professor*

GRIFFIN, Brigham K. *Professional in Residence*

HARDING, R. Dustin *Assistant Professor*

HARRISON, Mark *Lecturer*

HAWKES, Joshua *Lecturer*

HUFF, Steven *Associate Professor*

JOHNSON, Gary *Lecturer*

MAXFIELD, Neal *Lecturer*

MILLER, Duane B. *Professor*

MURDOCK, Mitchel R. *Assistant Professor*

PRZBYLA, David *Professional in Residence*

WORKMAN, Letty *Associate Professor*

Course Descriptions

Marketing..... 758

Degrees & Programs

Professional Sales, Certificate of Proficiency

Requirements

A Certificate of Proficiency in Professional Sales at UVU offers an applied approach to professional sales. The certificate focuses on developing the knowledge and skills necessary to be able to be successful in a professional sales environment with a focus on business to business sales. Courses specialize in personal selling skills, sales coaching and sales management, sales analytics and sales strategy, along with a sales-centered internship.

Total Program Credits: 16

Discipline Core Requirements:			16 Credits
	MKTG 3600	Principles of Marketing*	3
	MKTG 3650	Professional Selling	3
	MKTG 3640	Sales Management	3
	MKTG 4610	Sales Analytics	3
	MKTG 482R	Sales Internship (1.0)	4

Graduation Requirements:

1. Completion of a minimum of 16 semester credits.
2. Overall grade point average of 2.0 (C-) or above.
3. Residency hours-- minimum of 4 credit hours through course attendance at UVU.

Footnote:

* Has a prerequisite of University Advanced Standing.

Professional Sales, Certificate of Proficiency Careers

Careers:

Every field of business has an integral need for professional sales specialists. Professional sales is central to virtually every industry and key to an organization's ability to grow and sustain business operations. As a profession, the field of sales provides a strong trajectory of earnings potential unmatched by those of other career paths. Professional sales specialists are in increasing demand nationally and especially within Utah. Sales as a career provides the opportunity for career advancement through management and senior management within organizations as well as the opportunity to work with a variety of customers to help them solve problems and identify solutions which will help their businesses grow. Traditional areas of employment for sales students include: account executive roles, account management, inside sales, project management, sales management, sales analytics, sales training and development, and senior management.

Related Careers

Marketing, Minor

Requirements

The Marketing Department offers students three different tracks in the marketing minor, each providing a theoretical and in-depth professional preparation in the field. The first is the Marketing Management track, which provides a broad base of experiential classes and the most flexibility in scheduling for employed students. The second is the Digital Marketing track, which provides courses in internet marketing, social media, and web analytics. The newest track is Professional Selling, which prepares students for a career in sales with courses in personal selling, sales management, and sales analytics. Whichever track is chosen, a professional internship is highly encouraged.

Total Program Credits: 18

Discipline Core Requirements:		12 Credits
MKTG 335G	International Marketing	3
MKTG 3600	Principles of Marketing	3
MKTG 3620	Consumer Behavior	3
MKTG 4600	Marketing Research	3
Elective Requirements:		6 Credits
Select 6 credits from the following:		6
MKTG 3220	Retail Management (3.0)	
MKTG 3630	Services Marketing (3.0)	
MKTG 3650	Professional Selling (3.0)	
MKTG 3660	Digital Marketing (3.0)	
MKTG 3670	Advertising and Promotion (3.0)	
MKTG 4400	Competitive Intelligence (3.0)	

Marketing, Minor Careers

Careers:

Almost a third of all Americans are employed in marketing-related positions. Marketing graduates are in high demand in business, non-profit, and government service. Traditional career paths for students with marketing degrees include: brand management, advertising and promotion, professional sales, market research, pricing, product strategy, consumer behavior, event management, and international marketing. Many marketing graduates begin their careers, and then continue their education with a master's degree in Marketing.

Advertising Director

Advertising Sales

Brand/Product Manager
Buyer, Merchandiser
Channel Marketing Specialist
Client Services Manager
Communications Planning
Content Strategist
Digital Investment Manager Managing Director
Director of Interactive Products
E-Mail Marketing
Event Management Analyst
Event Manager
Inbound Marketing Manager
Marketing Communications Manager
Market Researcher
Marketing Coordinator

Related Careers

- Advertising and Promotions Managers
- Marketing Managers
- Sales Managers
- Market Research Analysts and Marketing Specialists
- Business Teachers, Postsecondary

Digital Marketing, B.S.

Requirements

The Digital Marketing major at UVU offers an analytical, applied, engaged-learning approach to digital marketing. Students learn a balance of marketing strategy, content creation, graphic design, and website/social media analytics for marketing campaigns. The digital marketing major offers an expanding menu of beginning and advanced courses that allow students to use their digital marketing skills for live engaged-learning clients.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business	
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher		
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	

Marketing

Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
ECON 2020	Macroeconomics * (fulfills Social/Behavioral Science credit)	3
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
Discipline Core Requirements:		75 Credits
Business Foundation Courses:		
ACC 2010	Financial Accounting (3.0)	3
ACC 2020	Managerial Accounting (3.0)	3
My Educator***		
or IM 2010	Business Computer Proficiency (3.0) ***	
or IM 2600	Spreadsheet Applications (3.0) ***	
ECON 2010	Microeconomics	3
MATH 1100	Introduction to Calculus	4
or MGMT 2240	Business Calculus (3.0) **	
MKTG 2200	Written Business Communication * (Complete with B- grade or higher)	3
MGMT 2340	Business Statistics I	3
MKTG 2390	Professional Business Presentations	3
Business Core Courses:		
FIN 3100	Principles of Finance *	3
LEGL 3000	Business Law	3
MKTG 3600	Principles of Marketing	3
MGMT 3000	Organizational Behavior	3
MGMT 3450	Operations Management *	3
MKTG 3890	Career Preparation	3
MGMT 4860	Business Strategy Formulation and Implementation *	4
ENTR 493R	Entrepreneurship Lecture Series (1.0)	
or MGMT 495R	Executive Lecture Series	1
Digital Marketing Core:		
MKTG 335G	International Marketing	3
MKTG 3660	Digital Marketing	3
MKTG 3680	Marketing with Social Media	3
MKTG 3685	Content Marketing	3
MKTG 3690	Advanced Digital Marketing and Analytics	3
MKTG 3695	Digital Marketing Capstone	3
MKTG 483R	Digital Marketing Internship	2
DGM 1110	Digital Media Essentials I	4
DGM 2320	Digital Photography and Compositing I	3

DGM 2120	Web Essentials	3
Elective Requirements:		9 Credits
Digital Marketing Electives (9 credits needed)		9
MKTG 3220	Retail Management (3.0)	
MKTG 3620	Consumer Behavior (3.0)	
MKTG 3650	Professional Selling (3.0)	
MKTG 3670	Advertising and Promotion (3.0)	
DGM 2250	Principles of Digital Design (3.0)	
DGM 2271	Digital Media Design I (3.0)	
DGM 2280	Digital Effects I (3.0)	
DGM 2341	Digital Output for Mobile Media (3.0)	
DGM 3750	Media Traffic and Analytics (3.0)	
DGM 4000	Writing for Digital Media (3.0)*	
ART 1050	Photography I (3.0)	
ART 1420	Graphic Design I (3.0)	
ART 1400	Graphic Computer Applications (3.0)	
General Electives (1 credit needed)		1
Any course numbered 1000 or higher.		

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote
* Cannot be taken until student is matriculated.
** If MGMT 2240 is taken, an additional 1 credit of elective may be required. See Advisor.
*** Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

Digital Marketing, B.S. Careers

Careers:
Every business has increasing demands for specialists with training in the field of digital marketing. Traditional areas of employment for digital marketing students include: website design/development, paid/organic search, social media marketing, email marketing, blogs, website traffic analysis, content creation, multimedia marketing campaigns, SEO, SEM, and PPC. Today, new digital marketing technologies are expanding the need for digital marketing specialists, as well as their range of skills. Digital marketing also provides excellent preparation for graduate study in the fields of business, communications, public relations, and of course marketing.

Related Careers

- Marketing Managers

Marketing, B.A.

Requirements

The Marketing Department offers students three different tracks each providing a theoretical and in-depth professional preparation in the field. The first is the Marketing Management track which provides a broad base of experiential classes and the most flexibility in scheduling for employed students. The second is the Digital Marketing track which provides courses in internet marketing, social media, and web analytics. The newest track is Sales which prepares students for a career in sales with courses in personal selling, sales management, and sales analytics. Whichever track is chosen, a professional internship is highly encouraged.

Total Program Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	3
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher			
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics * (fulfills Social/Behavioral Science credit)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (Any Foreign Language 202G/2020 course)		4
	Fine Arts Distribution		3
Discipline Core Requirements:		59 Credits	
Business Foundation Courses:			
	ACC 2010	Financial Accounting (3.0)	3
	ACC 2020	Managerial Accounting (3.0)	3
	My Educator**		
or	IM 2010	Business Computer Proficiency (3.0) **	
or	IM 2600	Spreadsheet Applications (3.0) **	

	ECON 2010	Microeconomics	3
	MKTG 2200	Written Business Communication * (Complete with a B- grade or higher)	3
	MGMT 2340	Business Statistics I	3
	MKTG 2390	Professional Business Presentations	3
	MKTG 4300	Marketing Analytics	3
or	ECON 3340	Managerial Statistics (3.0)	
or	MGMT 2240	Business Calculus (3.0)	
Business Core Courses:			
	FIN 3100	Principles of Finance *	3
	LEGL 3000	Business Law	3
	MKTG 3600	Principles of Marketing	3
	MGMT 3000	Organizational Behavior	3
	MGMT 3450	Operations Management *	3
	MKTG 3890	Career Preparation	3
	MGMT 4860	Business Strategy Formulation and Implementation *	4
or	MGMT 4840	Management Consulting (3.0)	
and	MGMT 4835	Management Consulting Strategy Implementation (1.0)	
	ENTR 493R	Entrepreneurship Lecture Series (1.0)	
or	MGMT 495R	Executive Lecture Series*	1
Marketing Core Courses:			
	MKTG 335G	International Marketing	3
	MKTG 3620	Consumer Behavior	3
	MKTG 3650	Professional Selling	3
	MKTG 3660	Digital Marketing	3
	MKTG 4650	Marketing Management	3
Elective Requirements:		25 Credits	
Complete one of three Marketing tracks as part of 13 elective credits from the following courses:		13	
Sales Track (9 of the 13 required electives)			
	MKTG 3640	Sales Management (3.0)	
	MKTG 4610	Sales Analytics (3.0)	
	MKTG 482R	Sales Internship (must be taken three times) (1.0)	
An additional four hours of upper-division Marketing courses.			
Digital Marketing Track (9 of the 13 required electives)			
	MKTG 3680	Marketing with Social Media (3.0)	
	MKTG 3690	Advanced Digital Marketing and Analytics (3.0)	
	MKTG 483R	Digital Marketing Internship (1.0)	
An additional four hours of upper-division Marketing courses.			
Marketing Management Track (9 of the 12 required electives)			
	MKTG 3670	Advertising and Promotion (3.0)	
	MKTG 4600	Marketing Research (3.0)	
	MKTG 481R	Marketing Internship (1.0)	
An additional four hours of upper-division Marketing courses.			
Marketing Electives (4 of the 13 required electives)			

Marketing

MKTG 3220	Retail Management (3.0)	
MKTG 3460	Internal Marketing and Corporate Imaging (3.0)	
MKTG 3630	Services Marketing (3.0)	
MKTG 3640	Sales Management (3.0)	
MKTG 3680	Marketing with Social Media(3.0)	
MKTG 3690	Advanced Digital Marketing and Analytics (3.0)	
MKTG 4400	Competitive Intelligence (3.0)	
MKTG 4610	Sales Analytics (3.0)	
MKTG 459R	Advanced Topics in Marketing (3.0)	
ENTR 493R	Entrepreneurship Lecture Series (1.0)	
MGMT 495R	Executive Lecture Series (1.0)*	
Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence		12

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BA degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote
*Cannot be taken until student is matriculated.
**Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

Marketing, B.A. Careers

Careers:
Almost a third of all Americans are employed in marketing-related positions. Marketing graduates are in high demand in business, non-profit, and government service. Traditional career paths for students with marketing degrees include: brand management, advertising and promotion, professional sales, market research, pricing, product strategy, consumer behavior, event management, and international marketing. Many marketing graduates begin their careers, and then continue their education with a master's degree in Marketing.
Advertising Director
Advertising Sales
Brand/Product Manager
Buyer, Merchandiser
Channel Marketing Specialist
Client Services Manager
Communications Planning
Content Strategist
Digital Investment Manager Managing Director
Director of Interactive Products
E-Mail Marketing

Event Management Analyst
Event Manager
Inbound Marketing Manager
Marketing Communications Manager
Market Researcher
Marketing Coordinator

Related Careers

- Advertising and Promotions Managers
- Marketing Managers
- Sales Managers
- Market Research Analysts and Marketing Specialists
- Business Teachers, Postsecondary

Marketing, B.S.

Requirements

The Marketing Department offers students three different tracks each providing a theoretical and in-depth professional preparation in the field. The first is the Marketing Management track which provides a broad base of experiential classes and the most flexibility in scheduling for employed students. The second is the Digital Marketing track which provides courses in internet marketing, social media, and web analytics. The newest track is Sales which prepares students for a career in sales with courses in personal selling, sales management, and sales analytics. Whichever track is chosen, a professional internship is highly encouraged.

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business	
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher		
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
ECON 2020	Macroeconomics * (fulfills Social/Behavioral Science credit)	3
Biology		3

	Physical Science	3	
	Additional Biology or Physical Science	3	
	Humanities Distribution	3	
	Fine Arts Distribution	3	
Discipline Core Requirements:		59 Credits	
Business Foundation Courses:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	My Educator**		
or	IM 2010	Business Computer Proficiency (3.0) **	
or	IM 2600	Spreadsheet Applications (3.0) **	
	ECON 2010	Microeconomics	3
	MKTG 2200	Written Business Communication * (Complete with a B- grade or higher)	3
	MGMT 2340	Business Statistics I	3
	MKTG 2390	Professional Business Presentations	3
	MKTG 4300	Marketing Analytics	3
or	ECON 3340	Managerial Statistics (3.0)	
or	MGMT 2240	Business Calculus (3.0)	
Business Core Courses:			
	FIN 3100	Principles of Finance *	3
	LEGL 3000	Business Law	3
	MKTG 3600	Principles of Marketing	3
	MGMT 3000	Organizational Behavior	3
	MGMT 3450	Operations Management *	3
	MKTG 3890	Career Preparation	3
	MGMT 4860	Business Strategy Formulation and Implementation *	4
or	MGMT 4840	Management Consulting (3.0)	
and	MGMT 4835	Management Consulting Strategy Implementation (1.0)	
	ENTR 493R	Entrepreneurship Lecture Series (1.0)	
or	MGMT 495R	Executive Lecture Series*	1
Marketing Core Courses:			
	MKTG 335G	International Marketing	3
	MKTG 3620	Consumer Behavior	3
	MKTG 3650	Professional Selling	3
	MKTG 3660	Digital Marketing	3
	MKTG 4650	Marketing Management	3
Elective Requirements:		26 Credits	
Complete one of three Marketing tracks as part of 15 elective credits from the following courses:		15	
Sales Track (9 of the 15 required electives)			
	MKTG 3640	Sales Management (3.0)	
	MKTG 4610	Sales Analytics (3.0)	
	MKTG 482R	Sales Internship (must be taken three times) (1.0)	
An additional six hours of upper-division Marketing courses.			

Digital Marketing Track (9 of the 15 required electives)			
	MKTG 3680	Marketing with Social Media (3.0)	
	MKTG 3690	Advanced Digital Marketing and Analytics (3.0)	
	MKTG 483R	Digital Marketing Internship (1.0)	
An additional six hours of upper-division Marketing courses.			
Marketing Management Track (9 of the 15 required electives)			
	MKTG 3670	Advertising and Promotion (3.0)	
	MKTG 4600	Marketing Research (3.0)	
	MKTG 481R	Marketing Internship (1.0)	
An additional six hours of upper-division Marketing courses.			
Marketing Electives (6 of the 12 required electives)			
	MKTG 3220	Retail Management (3.0)	
	MKTG 3460	Internal Marketing and Corporate Imaging (3.0)	
	MKTG 3630	Services Marketing (3.0)	
	MKTG 3640	Sales Management (3.0)	
	MKTG 3680	Marketing with Social Media (3.0)	
	MKTG 3690	Advanced Digital Marketing and Analytics (3.0)	
	MKTG 4400	Competitive Intelligence (3.0)	
	MKTG 4610	Sales Analytics (3.0)	
	MKTG 459R	Advanced Topics in Marketing (3.0) *	
Select 11 elective credits 1000 or higher			11

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote

*Cannot be taken until student is matriculated.

**Students will be required to complete My Educator, IM 2010, or IM 2060 with a score of 80 percent or higher.

Marketing, B.S. Careers

Careers:

Almost a third of all Americans are employed in marketing-related positions. Marketing graduates are in high demand in business, non-profit, and government service. Traditional career paths for students with marketing degrees include: brand management, advertising and promotion, professional sales, market research, pricing, product strategy, consumer behavior, event management, and international marketing. Many marketing graduates begin their careers, and then continue their education with a master's degree in Marketing.

Advertising Director

Advertising Sales

Brand/Product Manager

Marketing

Buyer, Merchandiser
Channel Marketing Specialist
Client Services Manager
Communications Planning
Content Strategist
Digital Investment Manager Managing Director
Director of Interactive Products
E-Mail Marketing
Event Management Analyst
Event Manager
Inbound Marketing Manager
Marketing Communications Manager
Market Researcher
Marketing Coordinator

Related Careers

- Advertising and Promotions Managers
- Marketing Managers
- Sales Managers
- Market Research Analysts and Marketing Specialists
- Business Teachers, Postsecondary

Mathematics

Name:	Mathematics
Location:	LA 109
Telephone:	801-863-8650
Email:	pattence@uvu.edu
Web Address:	uvu.edu/math/
Chair:	Bob Palais

Mission Statement

The Utah Valley University Mathematics Department's primary purpose is to educate students in mathematics, mathematics education, and statistics. The department prepares students for both graduate degrees and productive careers by fostering a rigorous development of cognitive skills, helping them to analyze logical inferences, reason critically, and apply mathematical ideas to solve real world problems. The department's other functions include service which supports the mission of the University, and the development of scholarly work to both advance research and facilitate student engagement in current areas of interest.

Mathematics

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DEPARTMENT CHAIR

PALAIS, Bob *Associate Professor*

FACULTY

- ABRAMSON, Mark A.** *Associate Professor*
ANDRIST, Kathryn *Professor*
BHATTACHARJEE, Debanjan *Associate Professor*
BRINKERHOFF, Colin *Lecturer*
FAUROT, Don *Associate Professor*
FAUROT, Vivienne *Associate Professor*
FEARNLEY, David *Professor*
FEARNLEY, Lawrence *Visiting Scholar Lecturer*
FRANZ, Reinhard O.W. *Associate Professor*
HEINY, Erik *Associate Professor*
HOOPER, Jennifer *Assistant Professor*
ISLAM, Mohammad *Assistant Professor*
JI, Xiao *Associate Professor*
KNAEBLE, Brian *Assistant Professor*
LEE, KC *Lecturer*
LEWIS, Scott C. *Professor*
LI, Ya *Professor*
LING, Jun (Michael) *Professor*
MERRIN, Christine Rossi *Professor*
MERRIN, Stephen D. *Professor*
PALAIS, Bob *Associate Professor*
PARRY, Alan *Assistant Professor*
SIMMONS, Skyler C. *Assistant Professor*
SIMONS, Joe M. *Lectuer*
VAN FRANKENHUIJSEN, Machiel *Professor*
VASILEVSKA, Violeta *Associate Professor*
WALKER, Christine *Professor*
ZHU, Yingxian *Associate Professor*

Course Descriptions

Mathematics.....	745
Statistics.....	810

Degrees & Programs

Mathematics, A.A.

Requirements

Total Program Credits: 61

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	

Mathematics

	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			16 Credits
	MATH 1210	Calculus I	5
	MATH 1220	Calculus II	5
Complete 6 credits from the following:			6
	MATH 2210	Calculus III (3.0)	
	STAT 2040	Principles of Statistics (4.0)	
	MATH 2270	Linear Algebra (3.0)	
	MATH 2280	Ordinary Differential Equations (3.0)	
	MATH 3400	Partial Differential Equations (3.0)	
Elective Requirements:			10 Credits
	Same Foreign Language		8
	Any course 1000 or higher (MATH 1060 suggested)		2

Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements
5. For the AA degree, completion of 8 credit hours of course work from one language.

Mathematics, A.A.

Careers

Mathematics, A.A. Careers

Related Careers

- Natural Sciences Managers

- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics, A.S.

Requirements

Total Program Credits: 63

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (recommended for Humanities and Arts majors) (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			16 Credits
	MATH 1210	Calculus I	5
	MATH 1220	Calculus II	5
Complete six credits from the following:			6
	MATH 2210	Calculus III (3.0)	
	MATH 2040	Principles of Statistics (4.0)	

MATH 2270	Linear Algebra (3.0)	
MATH 2280	Ordinary Differential Equations (3.0)	
MATH 3400	Partial Differential Equations (3.0)	
Elective Requirements:		12 Credits
Any course 1000 or higher (MATH 1060 suggested)		12

Graduation Requirements: _____

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Mathematics, A.S.

Careers

Mathematics, A.S. Careers

Related Careers

- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics, Minor

Requirements

Total Program Credits: 25

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		25 Credits
MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
MATH 2270	Linear Algebra	3
MATH 2280	Ordinary Differential Equations	3
Choose at least two mathematics courses from the mathematics courses numbered 3200 and above, excluding MATH 481R.		6

Mathematics, Minor

Careers

Mathematics, Minor Careers

Related Careers

- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics - Actuarial Science Emphasis, B.S.

Requirements

Total Program Credits: 120

Matriculation Requirements:		
1. Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.5 or better		
2. Student must meet with the Math Department advisor and declare an intent to major in Mathematics		
General Education Requirements:		38 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors)	4
MATH 1055	College Algebra with Preliminaries (5.0)	
or MATH 1050	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2220	Physics for Scientists and Engineers II (4.0) (Required for Mathematics and Applied Mathematics Emphasis)	
and PHYS 2225	Physics for Scientists and Engineers II Lab (1.0) (Required for Mathematics and Applied Mathematics Emphasis)	
or	One other Biology or Physical Science Distribution (Required for Actuarial Science Emphasis)	3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		28 Credits
Complete the following:		
MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
MATH 2270	Linear Algebra	3
MATH 2280	Ordinary Differential Equations	3
MATH 3300	Foundations of Abstract Algebra	3
MATH 3310	Discrete Mathematics	3

Mathematics

	MATH 4210	Advanced Calculus I *	3
Elective Requirements:			23 Credits
	Complete 11 credits of upper division electives		11
	Complete 12 credits of upper or lower division electives		12
Emphasis Requirements:			27 Credits
	ECON 2010	Microeconomics	3
	ECON 2020	Macroeconomics	3
	ACC 2010	Financial Accounting (3.0)	
and	ACC 2020	Managerial Accounting (3.0)	
or	ACC 3000	Financial Managerial and Cost Accounting Concepts	3
	FIN 3100	Principles of Finance	3
	MATH 3750	Financial Mathematics	3
	MATH 4750	Life Contingencies	3
	STAT 4000	Applied Regression and Time Series	3
	STAT 4710	Mathematical Statistics I	3
	STAT 4720	Mathematical Statistics II	3
Emphasis Elective Requirements:			4 Credits
Complete 4 credits Chosen from the following:			4
	MATH 3100	Foundations of Geometry (3.0)	
	MATH 3210	Complex Variables (3.0)	
	MATH 3400	Partial Differential Equations (3.0)	
	MATH 4000	Introduction to Probability (3.0)	
	MATH 4220	Advanced Calculus II (3.0)	
	MATH 4310	Introduction to Modern Algebra I (3.0)	
	MATH 4320	Introduction to Modern Algebra II (3.0)**	
	MATH 4330	Theory of Linear Algebra (3.0)	
	MATH 4340	Introduction to Number Theory (3.0)	
	MATH 4510	Foundations of Topology (3.0)	
	MATH 4610	Introduction to Numerical Analysis I (3.0)	
	MATH 4620	Introduction to Numerical Analysis II (3.0)**	
	MATH 490R	Topics in Mathematics (2.0)	
Graduation Requirements:			
<ol style="list-style-type: none"> 1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses. 2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses). 3. Residency hours-- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours. 4. Completion of general education and specified departmental requirements. 5. Complete an exit survey administered by the Mathematics Department Advisor. 6. Successful completion of at least one Global/Intercultural course. 			
Footnotes:			
* Students planning to do graduate work in mathematics should take both of the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.			
** Requires completion of a prerequisite course, which fulfills elective requirements.			

Mathematics - Actuarial Science Emphasis, B.S. Careers

Mathematics - Actuarial Science Emphasis, B.S. Careers

Related Careers

- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics - Applied Mathematics Emphasis, B.S.

Requirements

Total Program Credits: 120

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.5 or better 2. Student must meet with the Math Department advisor and declare an intent to major in Mathematics 			
General Education Requirements:		38 Credits	
ENGL 1010	Introduction to Writing	3	
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3	
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors)	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology	3	
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2215	Physics for Scientists and Engineers I Lab	1
	PHYS 2220	Physics for Scientists and Engineers II (4.0)	
and	PHYS 2225	Physics for Scientists and Engineers II Lab (1.0)	
or	One other Biology or Physical Science Distribution (Required for Actuarial Science Emphasis)		3
	Humanities Distribution		3
	Fine Arts Distribution		3

	Social/Behavioral Science	3	
Discipline Core Requirements:		28 Credits	
Complete the following:			
	MATH 1210	Calculus I	5
	MATH 1220	Calculus II	5
	MATH 2210	Calculus III	3
	MATH 2270	Linear Algebra	3
	MATH 2280	Ordinary Differential Equations	3
	MATH 3300	Foundations of Abstract Algebra	3
	MATH 3310	Discrete Mathematics	3
	MATH 4210	Advanced Calculus I *	3
Elective Requirements:		23 Credits	
	Complete 11 credits of upper division electives	11	
	Complete 12 credits of upper or lower division electives	12	
Emphasis Requirements:		20 Credits	
Complete all of the following:			
	CS 2250	Java Programming (3.0)	
or	CS 2370	C-plus-plus Programming	3
	STAT 3040	Probability and Statistics for Engineering and the Sciences (3.0)	
or	MATH 4000	Introduction to Probability	3
	MATH 3210	Complex Variables	3
	MATH 3300	Foundations of Abstract Algebra	3
	MATH 4610	Introduction to Numerical Analysis I	3
	MATH 4620	Introduction to Numerical Analysis II	3
	MATH 4999	Mathematics Capstone	2
Emphasis Elective Requirements:		11 Credits	
Complete 11 credits chosen from the following:			
	MATH 3400	Partial Differential Equations (3.0)	
	MATH 3750	Financial Mathematics (3.0)	
	MATH 4220	Advanced Calculus II (3.0)	
	MATH 4330	Theory of Linear Algebra (3.0)	
	MATH 4340	Introduction to Number Theory (3.0)	
	MATH 4510	Foundations of Topology (3.0)	
	MATH 4750	Life Contingencies (3.0)	
	MATH 490R	Topics in Mathematics (2.0)	
	MATH 5510	General Topology (3.0)	
	STAT 4000	Applied Regression and Time Series (3.0)	
	STAT 4710	Mathematical Statistics I (3.0)	
	STAT 4720	Mathematical Statistics II (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses).
3. Residency hours-- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of general education and specified departmental requirements.

5. Complete an exit survey administered by the Mathematics Department Advisor.
6. Successful completion of at least one Global/Intercultural course.

Footnote:
* Students planning to do graduate work in mathematics should take both of the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.
** Requires completion of a prerequisite course, which fulfills elective requirements.

Mathematics - Mathematics Emphasis, B.S. Requirements

Total Program Credits: 120

Matriculation Requirements:			
1.	Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.5 or better		
2.	Student must meet with the Math Department advisor and declare an intent to major in Mathematics		
General Education Requirements:		38 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses			
	Biology		3
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2215	Physics for Scientists and Engineers I Lab	1
	PHYS 2220	Physics for Scientists and Engineers II (4.0)	
and	PHYS 2225	Physics for Scientists and Engineers II Lab (1.0)	
or	One other Biology or Physical Science Distribution (Required for Actuarial Science Emphasis)		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:		28 Credits	
Complete the following:			

Mathematics

MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
MATH 2270	Linear Algebra	3
MATH 2280	Ordinary Differential Equations	3
MATH 3300	Foundations of Abstract Algebra	3
MATH 3310	Discrete Mathematics	3
MATH 4210	Advanced Calculus I *	3
Elective Requirements:		23 Credits
Complete 11 credits of upper division electives		11
Complete 12 credits of upper or lower division electives		12

Emphasis Requirements:		11 Credits
Complete all of the following:		
MATH 3210	Complex Variables	3
MATH 4220	Advanced Calculus II	3
MATH 4310	Introduction to Modern Algebra I	3
MATH 4999	Mathematics Capstone	2
Emphasis Elective Requirements:		20 Credits
Complete 12 credits chosen from the following:		12
MATH 3100	Foundations of Geometry (3.0)	
MATH 3400	Partial Differential Equations (3.0)	
MATH 4000	Introduction to Probability (3.0)	
MATH 4320	Introduction to Modern Algebra II (3.0) **	
MATH 4330	Theory of Linear Algebra (3.0)	
MATH 4340	Introduction to Number Theory (3.0)	
MATH 4510	Foundations of Topology (3.0)	
MATH 4610	Introduction to Numerical Analysis I (3.0)	
MATH 4620	Introduction to Numerical Analysis II (3.0) **	
MATH 5510	General Topology (3.0)	
Complete 8 additional credits of general electives		8

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses).
3. Residency hours-- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.

4. Completion of general education and specified departmental requirements.
5. Complete an exit survey administered by the Mathematics Department Advisor.
6. Successful completion of at least one Global/Intercultural course.

Footnotes:

* Students planning to do graduate work in mathematics should take both of the year-long sequences MATH 4210, 4220, and MATH 4310, 4320, and acquire a reading knowledge of at least one foreign language chosen from French, German, or Russian.

**Requires completion of a prerequisite course, which fulfills elective requirements.

Mathematics - Mathematics Emphasis, B.S. Careers

Mathematics - Mathematics Emphasis, B.S. Careers

Related Careers

- Natural Sciences Managers
- Mathematicians
- Statisticians
- Mathematical Science Occupations, All Other
- Mathematical Science Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Mathematics Education, B.S.

Requirements

Total Program Credits: 120

Matriculation Requirements:

1. Completion of MATH 1210, 1220, and 2210 with a 3.0 GPA.
2. Completion of STAT 2040 with a grade of "B-" or higher.
3. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
4. GPA of 3.0 or higher with no grade lower than a C in content area courses.
5. Completion of all General Education requirements and the majority of content area courses.
6. Pass group interview directed by the Secondary Teacher Education Department.
7. Pass LiveScan Criminal Background Check.

General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
MATH 1210	Calculus I (5.0)*	5
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	

Distribution Courses			
	Biology Distribution		3
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2215	Physics for Scientists and Engineers I Lab	1
	Additional Biology or Physical Science (PHYS 2220 recommended)		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			81 Credits
	MATH 1220	Calculus II	5
	MATH 2210	Calculus III	3
	STAT 2040	Principles of Statistics	4
	MATH 2270	Linear Algebra	3
	MATH 2280	Ordinary Differential Equations	3
	MATH 3000	History of Mathematics	3
	MATH 3010	Methods of Secondary School Mathematics Teaching	3
	MATH 3030	Algebra for Secondary Mathematics Teaching	3
	MATH 3100	Foundations of Geometry	3
	MATH 3200	Foundations of Analysis	3
	MATH 3300	Foundations of Abstract Algebra	3
	STAT 3040	Probability and Statistics for Engineering and the Sciences	3
	MATH 4030	Geometry for Secondary Mathematics Teaching	3
	MATH 4040	Statistics and Probability for Secondary Mathematics Teaching	3
	EDSC 3000	Educational Psychology	3
	EDSC 3050	Foundations of American Education	2
	EDSC 3250	Instructional Media	2
	EDSP 3400	Exceptional Students	2
	EDSC 4200	Classroom Management I	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10
	Complete 4 credits of any courses 1000 or higher		4

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of Math Department Exit Survey.
6. Successful completion of at least one Global/Intercultural course.

Footnote:
* According to student placement, pre-requisites may be required

Mathematics Education, B.S.

Careers

Mathematics Education, B.S. Careers

Related Careers

- Mathematical Science Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Statistics, B.S.

Requirements

Total Program Credits: 120

Matriculation Requirements:			
	1. Completion of MATH 1210 and MATH 1220 (or equivalent) with an overall GPA of 2.0 or better		
	2. Student must meet with the math department advisor and declare an intent to major in statistics.		
General Education Requirements:			37 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing-Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing-Science and Technology (3.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors)	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	PHYS 2210	Physics for Scientists and Engineers I (co-requisite lab required) (4.0)	4
	One other Biology or Physical Science Distribution		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			55 Credits
Complete the following:			

Mathematics

PHYS 2215	Physics for Scientists and Engineers I Lab	1
MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
MATH 2270	Linear Algebra	3
STAT 2050	Introduction to Statistical Methods	4
STAT 2060	Introduction to Statistical Computing	1
STAT 4000	Applied Regression and Time Series	3
STAT 4100	Design of Experiment	3
STAT 4400	Multivariate Analysis	3
STAT 4710	Mathematical Statistics I	3
STAT 4720	Mathematical Statistics II	3
Complete three of the following:		9
STAT 4200	Survey Sampling (3.0)	
STAT 4300	Stochastic Processes (3.0)	
STAT 4500	Nonparametric Statistics (3.0)	
STAT 4600	Statistical Process Control (3.0)	
Complete 9 hours of upper level MATH or STAT courses		9
Elective Requirements:		28 Credits
Complete 9 credits of upper division electives		9
Complete 19 credits of upper or lower division electives		19

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with at least 40 credit hours in upper-division courses.
2. Overall grade point average of 2.0 (C) or above, a minimum GPA of 2.4 in all MATH courses listed above, with no grade lower than a "C" in all listed PHYS and MATH courses (substitutions may be granted for some elective courses).
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Statistics, B.S.

Careers

Statistics, B.S. Careers

Related Careers

- Natural Sciences Managers
- Actuaries
- Statisticians
- Survey Researchers
- Mathematical Science Teachers, Postsecondary

Mathematics Graduate Programs

College of Science

- **Dean:** Daniel Fairbanks
- **Office:** SB 241h
- **Telephone:** 801-863-6441
- **Email:** fairbada@uvu.edu

Graduate Certificate in Mathematics

- **Program Director:** Bob Palais
- **Office:** LA 121h
- **Telephone:** 801-863-5412
- **Email:** bob.palais@uvu.edu
- **Advisor:** Christine Walker
- **Office:** LA 121k
- **Telephone:** 801-863-8634
- **Email:** christine.walker@uvu.edu
- **Administrative Support:** Emily Platt
- **Office:** LA 109h
- **Telephone:** 801-863-6426
- **Email:** emily.platt@uvu.edu

Program Description

Utah Valley University Mathematics Department offers a two-year part-time course of study for secondary-level teachers leading to a Graduate Certificate in Mathematics. This program is intended for students who wish to teach concurrent enrollment or college-level math courses, but lack the minimum 18 graduate credit hours in mathematics.

This program offers required courses in the areas of Topology, Combinatorics, Statistics, Numerical Analysis, Numerical Methods and Modeling, Modern Algebra and Ordinary Differential Equations.

Admission Requirements

Potential students must apply for admission into the program. To be accepted, students must have a current Mathematics Endorsement Level 4 certificate, attached to an Educator License Secondary teacher, exception, Alternative Routes to Licensure (ARL).

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00
2.0	566.00	70.00	636.00	2.0	1,726.00	70.00	1,796.00
2.5	707.50	87.50	795.00	2.5	2,157.50	87.50	2,245.00
3.0	849.00	105.00	954.00	3.0	2,589.00	105.00	2,694.00
3.5	990.50	122.50	1,113.00	3.5	3,020.50	122.50	3,143.00
4.0	1,132.00	140.00	1,272.00	4.0	3,452.00	140.00	3,592.00
4.5	1,273.50	157.50	1,431.00	4.5	3,883.50	157.50	4,041.00
5.0	1,415.00	175.00	1,590.00	5.0	4,315.00	175.00	4,490.00

5.5	1,556.50	192.50	1,749.00	5.5	4,746.50	192.50	4,939.00
6.0	1,698.00	210.00	1,908.00	6.0	5,178.00	210.00	5,388.00
6.5	1,839.50	227.50	2,067.00	6.5	5,609.50	227.50	5,837.00
7.0	1,981.00	245.00	2,226.00	7.0	6,041.00	245.00	6,286.00
7.5	2,122.50	262.50	2,385.00	7.5	6,472.50	262.50	6,735.00
8.0	2,264.00	280.00	2,544.00	8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00	8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00	9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00	9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00	10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50	10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00	11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50	11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00	12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50	12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00	13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50	13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00	14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50	14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00	15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50	15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00	16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50	16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00	17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50	17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00	18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50	18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00	19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50	19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00	20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50	20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00	21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50	21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00	22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50	22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00	23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50	23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00	24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50	24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00	25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

Course Descriptions

- Statistics.....
- Mathematics.....745

Degrees & Programs

Mathematics, Graduate Certificate

Requirements

The Graduate Certificate in Mathematics aims to improve mathematics education and student achievement by focusing on two specific research-supported areas. First, by delivering high-quality content-based knowledge critical to student achievement, and second, by targeting in-service teachers who desire to teach dual credit in high school, given that dual-credit/dual-enrollment students are more likely to persist in college and are more likely to complete a bachelor's degree in less time than those who did not attempt college credits in high school. Graduate courses for this program will be available to match in-service teacher's schedules—evenings and during summer sessions—taught on the main campus and live-interactive by Utah Valley University's full-time faculty.

Total Program Credits: 18

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Application for admission to the program. 2. Bachelor's degree required, Mathematics Endorsement 4, from an accredited institution. 		
Discipline Core Requirements:		18 Credits
Complete Six of the following courses for a total of 18 credits		18
MATH 6100	Topics in Geometry and Topology (3.0)	
MATH 6310	Modern Algebra (3)	
MATH 6350	Introduction to Combinatorics (3)	
MATH 6410	Topics in Ordinary Differential Equations (3.0)	
MATH 6610	Numerical Methods and Modeling (3.0)	
MATH 6620	Topics in Numerical Analysis (3.0)	
STAT 6010	Theory of Statistics (3.0)	
or other approved courses		

Graduation Requirements:

1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 12 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Mathematics, Graduate Certificate

Careers

Related Careers

- Mathematical Science Teachers, Postsecondary
- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Music

Name:	Music
Location:	GT 332
Telephone:	801-863-8534
Email:	musicinfo@uvu.edu
Web Address:	uvu.edu/music
Chair:	Donna Fairbanks

Mission Statement

The Department of Music promotes student success through innovative programs that enhance creativity, hone performance expertise, and sustain high standards of excellence. Our professional faculty provide learning opportunities essential to the competency of music students as they prepare for a global marketplace. The department engages diverse audiences through performances and activities representing an array of musical styles and traditions.

1. Provide nationally-competitive academic programs and general studies in music.
2. Promote an inclusive environment that provides students with resources that support their educational and professional needs.
3. Engage audiences with performances that reflect diverse musical styles and traditions.
4. Promote opportunities for students and faculty to explore their highest professional potential through creative and innovative activities on- and off-campus.

Music

Advisors:

- **Office:** CS 637
- **Telephone:** 801-863-5397
- **Email:** SOAADVISORS@UVU.EDU

Entrance Auditions

Entrance auditions are required for students wishing to pursue a degree in music. Live auditions are recommended, as they provide students with the opportunity to meet and perform for the faculty. Students also have the option to submit a recorded audition. More information: <https://www.uvu.edu/music/students>

Scholarship Auditions

Music majors and non-majors alike are eligible for a variety of scholarships, ranging from quarter to full tuition. Live auditions are recommended, as they provide students with the opportunity to meet and perform for the faculty. More information: <https://www.uvu.edu/music/students>

Ensemble Auditions

Ensemble auditions are held at the beginning of Fall and Spring semesters. More information: <https://www.uvu.edu/music/students/repertoire.html#ensemble>

Theory Placement

All new music major students are required to take a music theory placement examination on the first day of semester classes. The results of this test may indicate a need for further theory training before entrance into Music Theory I. More information: <https://www.uvu.edu/music/students>

Keyboard Proficiency

Music majors are required to pass keyboard proficiency examinations in preparation for their Sophomore review. Students who complete Group Piano I, II, III, and IV with a 'B' or higher will fulfill exam requirements. Students who have attained a requisite level of competency in piano may be exempted from group piano coursework through

a demonstration of exam requirements. More information: <https://www.uvu.edu/music/students>

DEPARTMENT CHAIR

FAIRBANKS, Donna *Professor*

FACULTY

- CHAU, Cheung** *Associate Professor*
CRIDDLE, Reed *Associate Professor*
DEMSKE, Hilary *Associate Professor*
DOUGLASS, Natalie *Assistant Professor*
FAIRBANKS, Donna *Professor*
HAGEN, W. Ross *Assistant Professor*
HEATH, Melissa *Assistant Professor*
HEITLINGER, Alex *Assistant Professor*
HOFHEINS, Nathan *Artist in Residence*
HURTADO, Isaac *Assistant Professor*
KECK, Thomas *Assistant Professor*
NIELSEN, Ryan *Associate Professor*
O'FLYNN, Jeffrey E. *Assistant Professor*
RYTTING, Bryce *Professor*
SMITH, Doug *Associate Professor*
SORENSEN, D. Todd *Artist in Residence*
WORTHEN, Cherylyn *Assistant Professor*

Course Descriptions

Music.....761

Degrees & Programs

Music, A.S.

Requirements

The Associate in Science in Music is a two-year program that offers foundational studies in musicianship and performance. Prepares students for continuation in a four-year degree program in music.

Total Program Credits: 63

General Education Requirements:			35 Credits
ENGL 1010	Introduction to Writing		3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences		3
Complete one of the following:			3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)		
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)		
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)		
MATH 1055	College Algebra with Preliminaries (5.0)		
MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)		
Complete one of the following:			3

Music

	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			3
	PHIL 2050	Ethics and Values (3.0)	
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			20 Credits
Complete the following:			
	MUSC 1110	Music Theory I	3
	MUSC 1120	Music Theory II	3
	MUSC 1130	Aural Skills I	1
	MUSC 1140	Aural Skills II	1
	MUSC 2110	Music Theory III	3
	MUSC 2125	Music Theory IV	3
	MUSC 2130	Aural Skills III	1
	MUSC 2140	Aural Skills IV	1
Complete 4 credits from the following:			4
	MUSC 320R	Masterworks Chorale (1.0)	
	MUSC 322R	Chamber Choir (1.0)	
	MUSC 327R	Men's Choir (1.0)	
	MUSC 328R	Women's Choir (1.0)	
	MUSC 330R	Wind Symphony (1.0)	
	MUSC 332R	Jazz Orchestra (1.0)	
	MUSC 370R	Symphony Orchestra (1.0)	
Complete 4 credits of the following on major instrument or voice:			4
	MUSC 250R	Private Lessons for Music Majors (1.0)	
Complete 4 credits of the following on major instrument or voice:			4
	MUSC 251R	Performance Class(Repeated 4 times on major instrument or voice) (1.0)	
Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150 , MUSC 1160 , MUSC 2150 and MUSC 2160			

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, MUSC 1160, MUSC 2150, MUSC 2160, and MUSC 250R courses require a grade B or higher. All other MUSC courses require a C grade or higher.

3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements including concert attendance requirements..

Music, A.S.

Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Secondary School Teachers, Except Special and Career/Technical Education
- Musicians and Singers

Music Technology, Certificate of Proficiency

Requirements

The Music Technology Certificate of Proficiency prepares students for work in the commercial music industry. Coursework includes completion of the Avid Pro Tools User Certification and Sibelius Certification.

Total Program Credits: 17

Discipline Core Requirements:			17 Credits
MUSC 1110	Music Theory I		3
MUSC 1120	Music Theory II		3
MUSC 1130	Aural Skills I		1
MUSC 1140	Aural Skills II		1
MUSC 1400	Music Technology I		2
MUSC 1402	Music Technology II		2
MUSC 2400	Digital Audio Workstation		2
MUSC 2420	Music Production Basics		2
MUSC 379R	Studio Recording Workshop		1

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above.
2. Residency hours-- minimum of 5 credit hours through course attendance at UVU.

Music Technology, Certificate of Proficiency

Careers

Careers:

The Music Technology Certificate prepares student for professional work in the music media industry. Completion of the program includes certification in Avid's Sibelius and Pro Tools, widely recognized professional credentials. Music media is an expanding industry with a variety of employment opportunities such as producing, studio recording, editing, composing, arranging, distribution, advertising and marketing.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary

- Music Directors and Composers
- Sound Engineering Technicians

Music, Minor

Requirements

A Minor in Music offers introductory studies in musicianship and performance, including theory, aural skills, private instruction, and ensemble participation.

Total Program Credits: 18

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		18 Credits
Complete the following:		
MUSC 1110	Music Theory I	3
MUSC 1130	Aural Skills I	1
Complete 4 credits from the following:		4
MUSC 145R	Private Lessons I (1)	
MUSC 245R	Private Lessons II (1)	
MUSC 250R	Private Lessons for Music Majors (1)	
Six additional credit hours of music courses		
Complete 4 credits from the following:		4
MUSC 306R	Advanced Keyboard Skills (1)	
MUSC 320R	Masterworks Chorale (1.0)	
MUSC 322R	Chamber Choir (1.0)	
MUSC 327R	Men's Choir (1.0)	
MUSC 328R	Women's Choir (1.0)	
MUSC 330R	Wind Symphony (1.0)	
MUSC 331R	Percussion Ensemble (1.0)	
MUSC 332R	Jazz Orchestra (1.0)	
MUSC 333R	Small Jazz and Commercial Ensembles (1)	
MUSC 334R	Pep Band (1)	
MUSC 370R	Symphony Orchestra (1.0)	
MUSC 372R	Chamber Orchestra (1)	
MUSC 373R	Advanced Small Ensembles (1)	
MUSC 423R	Opera Workshop (1)	

Graduation Requirements:

1. All MUSC courses require a C grade or higher.

Music, Minor Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Secondary School Teachers, Except Special and Career/Technical Education
- Musicians and Singers

Commercial Music, B.M.

Requirements

The Bachelor of Music in Commercial Music prepares students for professional work in the music media industry. Students may select from two tracks, one in media composition and the second in music technology and production.

Total Program Credits: 121

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Choose one of the following:		3
POLS 1000	American Heritage (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
MUSC 1030	American Popular Music (Fine Arts Distribution)	3
Social/Behavioral Science		3
Discipline Core Requirements:		86 Credits
Musicianship Courses:		
MUSC 1110	Music Theory I	3
MUSC 1120	Music Theory II	3

Music

MUSC 1130	Aural Skills I	1
MUSC 1140	Aural Skills II	1
MUSC 2110	Music Theory III	3
MUSC 2125	Music Theory IV	3
MUSC 2130	Aural Skills III	1
MUSC 2140	Aural Skills IV	1
MUSC 2350	Fundamentals of Conducting	2
MUSC 3120	Form and Analysis	3
MUSC 3450	Music History and Literature I	3
MUSC 3451	Music History and Literature II	3
Individual Musicianship Studies:		
MUSC 250R	Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
MUSC 251R	Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
MUSC 360R	Commercial Music Private Lessons (1.0)	1
Student must pass the Departmental Keyboard Proficiency Examination for Commercial Music or complete MUSC 1150, MUSC 1160, MUSC 2170, and MUSC 2180		
Large Ensembles:		
Complete 4 credits from the following:		4
MUSC 320R	Masterworks Chorale (1.0)	
MUSC 322R	Chamber Choir (1.0)	
MUSC 327R	Men's Choir (1.0)	
MUSC 328R	Women's Choir (1.0)	
MUSC 330R	Wind Symphony (1.0)	
MUSC 332R	Jazz Orchestra (1.0)	
MUSC 370R	Symphony Orchestra (1.0)	
Complete the following:		
MUSC 1400	Music Technology I	2
MUSC 1402	Music Technology II	2
MUSC 1410	Survey of Commercial Music Careers	1
MUSC 1810	Contemporary Theory and Improvisation I	3
MUSC 1820	Contemporary Theory and Improvisation II	2
MUSC 2400	Digital Audio Workstation	2
MUSC 2420	Music Production Basics	2
MUSC 3412	Music Career Development	3
MUSC 379R	Studio Recording Workshop	1
MUSC 410R	Music Composition (2.0)	2
MUSC 420R	Film Scoring (2.0)	2
MUSC 4130	Scoring and Arranging	2
MUSC 470R	Studio Arranging and Producing (Repeated 2 times) (3.0)	6
MUSC 481R	Internship in Music II	1
MUSC 492R	Advanced Topics in Music (Repeated 2 times, 2 credits each) (1.0)	4
Complete 4 credits from the following:		4

MUSC 3025	Songwriting I (2.0)	
MUSC 3026	Songwriting II (2.0)	
MUSC 3030	Jazz and Contemporary Arranging I (2.0)	
MUSC 3031	Jazz and Contemporary Arranging II (2.0)	
Complete 7 credits from the following:		7
DGM 2130	Digital Audio Essentials (3.0)	
DGM 2410	Core Recording Principles (3.0)	
DGM 2430	Core Mixing Principles (3.0)	
DGM 2440	Sound for Film and Television (3.0)	
DGM 3410	Audio Engineering for the Studio I (3.0)	
MUSC 3025	Songwriting I (2.0)	
MUSC 3026	Songwriting II (2.0)	
MUSC 3030	Jazz and Contemporary Arranging I (2.0)	
MUSC 3031	Jazz and Contemporary Arranging II (2.0)	
MUSC 332R	Jazz Orchestra (1.0)	
MUSC 333R	Small Jazz and Commercial Ensembles (1.0)	
MUSC 360R	Commercial Music Private Lessons (1.0)	
MUSC 492R	Advanced Topics in Music (1.0)	
MKTG 3600	Principles of Marketing	
MUSC 492R	Advanced Topics in Music (1.0)	

Graduation Requirements:

1. Completion of a minimum of 121 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, MUSC 1160, MUSC 2170, MUSC 2180, 250R, and 360R courses require a grade B or higher. All other MUSC and DGM courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review and concert attendance requirements.
5. Successful completion of at least one Global/Intercultural course.

Commercial Music, B.M.

Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Music Directors and Composers
- Sound Engineering Technicians

Music Education, B.S.

Requirements

The Bachelor of Science in Music Education degree provides students with the competencies essential for a professional career in music secondary education.

Total Program Credits: 133

Matriculation Requirements:		
Students will apply for formal admission to the Secondary Ed program in the semester prior to the beginning of their junior year. Admission criteria include:		
<ol style="list-style-type: none"> ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement. GPA of 3.0 or higher with no grade lower than a C in content area courses. Completion of all General Education requirements and the majority of content area courses. Pass LiveScan Criminal Background Check. 		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra(recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Choose one of the following:		3
POLS 1000	American Heritage (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		98 Credits
Music Skills Development Courses		
MUSC 1110	Music Theory I	3
MUSC 1120	Music Theory II	3

MUSC 1130	Aural Skills I	1
MUSC 1140	Aural Skills II	1
MUSC 1400	Music Technology I	2
MUSC 2110	Music Theory III	3
MUSC 2125	Music Theory IV	3
MUSC 2130	Aural Skills III	1
MUSC 2140	Aural Skills IV	1
MUSC 2350	Fundamentals of Conducting	2
MUSC 3120	Form and Analysis	3
MUSC 3450	Music History and Literature I	3
MUSC 3451	Music History and Literature II	3
MUSC 4130	Scoring and Arranging	2
Basic Music Education Courses		
MUSC 1800	Introduction to Music Education	3
Complete 6 credits from the following (see advisor):		6
MUSC 2001	Diction for Singers I (1.0)	
MUSC 2002	Diction for Singers II (1.0)	
MUSC 3620	Percussion Techniques I (1.0)	
MUSC 3621	Percussion Techniques II (1.0)	
MUSC 3630	Vocal Techniques (1.0)	
MUSC 3649	String Techniques I (1.0)	
MUSC 3650	String Techniques II (1.0)	
MUSC 3659	Woodwind Techniques I (1.0)	
MUSC 3660	Woodwind Techniques II (1.0)	
MUSC 3679	Brass Techniques I (1.0)	
MUSC 3680	Brass Techniques II (1.0)	
MUSC 4240	Vocal Pedagogy (2.0)	
Complete the following:		
MUSC 4780	Pre-Service Student Teaching	2
MUSC 4785	Student Teaching Seminar	2
Performance Skills Development Courses		
MUSC 250R	Private Lessons for Music Majors (Repeated 4 times on major instrument or voice)(Includes completion of sophomore review) (1.0)	4
MUSC 251R	Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
MUSC 450R	Advanced Private Lessons for Music Majors (Repeated 2 times on major instrument or voice) (Includes completion of 30-minute senior recital) (1.0)	2
MUSC 451R	Performance Class (Repeated 2 times) (1.0)	2
Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150, MUSC 1160, MUSC 2150, and MUSC 2160		
Complete 6 credits from the following:		6
MUSC 320R	Masterworks Chorale (1.0)	
MUSC 322R	Chamber Choir (1.0)	
MUSC 327R	Men's Choir (1.0)	
MUSC 328R	Women's Choir (1.0)	

Music

MUSC 330R	Wind Symphony (1.0)	
MUSC 332R	Jazz Orchestra (1.0)	
MUSC 370R	Symphony Orchestra (1.0)	
Secondary Education Courses		
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSP 3400	Exceptional Students	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	8
Complete one of the following areas:		6
Choral - String (6 credits)		
MUSC 4150	Advanced Choral Conducting (2.0)	
MUSC 4220	Choral Literature and Methods (2.0)	
MUSC 4370	Orchestra Literature and Methods (2.0)	
Choral - Winds/Percussion (7 credits)		
MUSC 4150	Advanced Choral Conducting (2.0)	
MUSC 4220	Choral Literature and Methods (2.0)	
MUSC 4340	Marching Band Techniques (1.0)	
MUSC 4360	Wind Band Literature and Methods (2.0)	
Strings - Choral (6 credits)		
MUSC 3150	Advanced Instrumental Conducting (2.0)	
MUSC 4370	Orchestra Literature and Methods (2.0)	
MUSC 4220	Choral Literature and Methods (2.0)	
Instrumental (7 credits)		
MUSC 3150	Advanced Instrumental Conducting (2.0)	
MUSC 4340	Marching Band Techniques (1.0)	
MUSC 4360	Wind Band Literature and Methods (2.0)	
MUSC 4370	Orchestra Literature and Methods (2.0)	
Winds/Percussion - Choral (7 credits)		
MUSC 3150	Advanced Instrumental Conducting (2.0)	
MUSC 4220	Choral Literature and Methods (2.0)	
MUSC 4360	Wind Band Literature and Methods (2.0)	
MUSC 4340	Marching Band Techniques (1.0)	
Choral (6 credits)		
MUSC 4150	Advanced Choral Conducting (2.0)	
MUSC 4220	Choral Literature and Methods (2.0)	
MUSC 4221	Advanced Choral Literature and Methods (2.0)	

Graduation Requirements:

1. Completion of a minimum of 133 semester credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and

Methods courses. MUSC 1150, MUSC 1160, MUSC 2150, MUSC 2160, MUSC 250R and MUSC 450R courses require a grade B or higher. MUSC 4220, MUSC 4221, MUSC 4360, and MUSC 4370 require a grade B- or higher.

3. Residency hours- minimum of 34 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review, 30-minute senior recital, and concert attendance requirements.
5. Successful completion of at least one Global/Intercultural course.

Music Education, B.S.

Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Education Teachers, Postsecondary
- Art, Drama, and Music Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Music, B.A.

Requirements

The Bachelor of Arts/Science in Music is a liberal arts degree with a significant component of electives designed for students who desire a broad base of knowledge. The Bachelor of Arts in Music includes foreign language requirements.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Choose one of the following:		3
POLS 1000	American Heritage (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	

	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (Fulfilled by completing Foreign Language Course 202G/2020)		4
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			56 Credits
Musicianship Courses			
	MUSC 1110	Music Theory I	3
	MUSC 1120	Music Theory II	3
	MUSC 1130	Aural Skills I	1
	MUSC 1140	Aural Skills II	1
	MUSC 2110	Music Theory III	3
	MUSC 2125	Music Theory IV	3
	MUSC 2130	Aural Skills III	1
	MUSC 2140	Aural Skills IV	1
	MUSC 3120	Form and Analysis	3
	MUSC 3450	Music History and Literature I	3
	MUSC 3451	Music History and Literature II	3
	Complete 7 credits of MUSC courses not already required for the degree (at least 3 credits must be upper-division)		7
Individual Musicianship Studies			
	MUSC 250R	Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
	MUSC 251R	Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
	MUSC 450R	Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (1.0)	4
	MUSC 451R	Performance Class (Repeated 4 times on major instrument or voice) (1.0)	4
Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150, MUSC 1160, MUSC 2150, and MUSC 2160			
Ensembles			
Complete 8 credits from the following:			8
	MUSC 320R	Masterworks Chorale (1.0)	
	MUSC 322R	Chamber Choir (1.0)	
	MUSC 327R	Men's Choir (1.0)	
	MUSC 328R	Women's Choir (1.0)	

	MUSC 330R	Wind Symphony (1.0)	
	MUSC 332R	Jazz Orchestra (1.0)	
	MUSC 370R	Symphony Orchestra (1.0)	
Elective Requirements:			28 Credits
	One Foreign Language		12
	Complete any courses 1000 level or higher (may not include MUSC courses) (at least 12 credits must be upper-division, see graduation requirements)		16

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, MUSC 1160, MUSC 2150, MUSC 2160, MUSC 250R and MUSC 450R courses require a grade B or higher. All other MUSC courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review and concert attendance requirements.
5. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
6. Successful completion of at least one Global/Intercultural course.

Music, B.A. Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Secondary School Teachers, Except Special and Career/Technical Education
- Musicians and Singers

Music, B.S.

Requirements

The Bachelor of Arts/Science in Music is a liberal arts degree with a significant component of electives designed for students who desire a broad base of knowledge. The Bachelor of Arts in Music includes foreign language requirements.

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:			3
	MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	

Music

	STAT 1040	Introduction to Statistics (recommended for Social science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Choose one of the following:			3
	POLS 1000	American Heritage (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			56 Credits
Musicianship Courses			
	MUSC 1110	Music Theory I	3
	MUSC 1120	Music Theory II	3
	MUSC 1130	Aural Skills I	1
	MUSC 1140	Aural Skills II	1
	MUSC 2110	Music Theory III	3
	MUSC 2125	Music Theory IV	3
	MUSC 2130	Aural Skills III	1
	MUSC 2140	Aural Skills IV	1
	MUSC 3120	Form and Analysis	3
	MUSC 3450	Music History and Literature I	3
	MUSC 3451	Music History and Literature II	3
Complete 7 credits of MUSC courses not already required for the degree (at least 3 credits must be upper-division)			7
Individual Musicianship Studies			
	MUSC 250R	Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
	MUSC 251R	Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4

	MUSC 450R	Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (1.0)	4
	MUSC 451R	Performance Class (Repeated 4 times on major instrument or voice) (1.0)	4
Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150, MUSC 1160, MUSC 2150, and MUSC 2160			
Ensembles			
Complete 8 credits from the following:			8
	MUSC 320R	Masterworks Chorale (1.0)	
	MUSC 322R	Chamber Choir (1.0)	
	MUSC 327R	Men's Choir (1.0)	
	MUSC 328R	Women's Choir (1.0)	
	MUSC 330R	Wind Symphony (1.0)	
	MUSC 332R	Jazz Orchestra (1.0)	
	MUSC 370R	Symphony Orchestra (1.0)	
Elective Requirements:			29 Credits
Complete any courses 1000 level or higher (may not include MUSC courses) (at least 12 credits must be upper-division, see graduation requirements)			29

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, MUSC 1160, MUSC 2150, MUSC 2160, MUSC 250R and MUSC 450R courses require a grade B or higher. All other MUSC courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review and concert attendance requirements.
5. Successful completion of at least one Global/Intercultural course.

Music, B.S.

Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Secondary School Teachers, Except Special and Career/Technical Education
- Musicians and Singers

Performance, B.M.

Requirements

The Bachelor of Music in Performance degree prepares students for performance-related work and studio teaching. In addition to standard courses that focus on performance skills, it includes courses relevant to the music industry such as entrepreneurship, music technology, and studio recording.

Total Program Credits: 121

General Education Requirements:		35 Credits
ENGL1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Choose one of the following:		3
MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Choose one of the following:		3
POLS 1000	American Heritage (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biological		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		86 Credits
Musicianship Courses:		
MUSC 1110	Music Theory I	3
MUSC 1120	Music Theory II	3
MUSC 1130	Aural Skills I	1
MUSC 1140	Aural Skills II	1
MUSC 2110	Music Theory III	3
MUSC 2125	Music Theory IV	3
MUSC 2130	Aural Skills III	1
MUSC 2140	Aural Skills IV	1
MUSC 2350	Fundamentals of Conducting	2
MUSC 3120	Form and Analysis	3
MUSC 3450	Music History and Literature I	3
MUSC 3451	Music History and Literature II	3

MUSC 4120	Twentieth-Century Theory (3.0)	
Music Industry and Technology		
MUSC 1400	Music Technology I	2
MUSC 3412	Music Career Development	3
Choose at least two credits from the following:		2
MUSC 1402	Music Technology II (2.0)	
MUSC 1810	Contemporary Theory and Improvisation I (3.0)	
MUSC 2400	Digital Audio Workstation (2.0)	
MUSC 2420	Music Production Basics (2.0)	
MUSC 3025	Songwriting I (2.0)	
MUSC 379R	Studio Recording Workshop (1.0)	
MUSC 470R	Studio Arranging and Producing (3.0)	
Individual Musicianship Studies:		
MUSC 250R	Private Lessons for Music Majors (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
MUSC 251R	Performance Class (Repeated 4 times on major instrument or voice) (Includes completion of sophomore review) (1.0)	4
MUSC 455R	Private Lessons for Music Performance Majors (Repeated 4 times on major instrument or voice) (2.0)	8
MUSC 451R	Performance Class (Repeated 4 times on major instrument or voice) (1.0)	1
MUSC 3800	Junior Recital (1.0)	1
MUSC 4800	Senior Recital (1.0)	
Student must pass the Departmental Keyboard Proficiency Examination or complete MUSC 1150, MUSC 1160, MUSC 2150, and MUSC 2160		
Large Ensembles:		
Complete 8 credits from the following:		8
MUSC 320R	Masterworks Chorale (1.0)	
MUSC 322R	Chamber Choir (1.0)	
MUSC 327R	Men's Choir (1.0)	
MUSC 328R	Women's Choir (1.0)	
MUSC 330R	Wind Symphony (1.0)	
MUSC 332R	Jazz Orchestra (1.0)	
MUSC 370R	Symphony Orchestra (1.0)	
Choose from one of the following performance areas:		22
Instrumental Performance/Piano Performance		
MUSC 306R	Advanced Keyboard Skills (For Piano Performance area only) (Repeated 6 times) (1.0)	
MUSC 3415	Instrumental Pedagogy and Literature I (2.0)	
MUSC 3416	Instrumental Pedagogy and Literature II (2.0)	
MUSC 373R	Small Ensembles (Repeated 4 times) (1.0)	
8 credits of music electives for Piano Performance area and 14 credits of music electives for Instrumental Performance area.		
Vocal Performance		
MUSC 2001	Diction for Singers I (1.0)	
MUSC 2002	Diction for Singers II (1.0)	

Music

	MUSC 3005	Vocal Literature I (1.0)	
	MUSC 3006	Vocal Literature II (1.0)	
	MUSC 423R	Opera Workshop (Repeated 4 times) (1.0)	
	MUSC 4240	Vocal Pedagogy (2.0)	
	FREN 1010	Beginning French I (4.0)	
	GER 1010	Beginning German I (4.0)	
	FREN 1020	Beginning French II (4.0)	
or	GER 1020	Beginning German II (4.0)	

Graduation Requirements:

1. Completion of a minimum of 121 semester credits, 40 credits must be upper-division.
2. Overall grade point average of 2.0 (C) or above. MUSC 1150, MUSC 1160, MUSC 2150, MUSC 2160, MUSC 250R and MUSC 455R courses require a grade B or higher. All other MUSC courses require a C grade or higher.
3. Residency hours- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Completion of GE and specified departmental requirements, including a sophomore review and concert attendance requirements.
5. Successful completion of at least one Global/Intercultural course.

Performance, B.M.

Careers

Careers:
UVU's music degree programs focus on three principal areas of professional music studies: education, performance, and commercial music. Students interested in broader studies, inclusive of other educational disciplines, may pursue a liberal arts or integrated studies major. In addition to professional careers, music is also an area that offers highly flexible self-employment opportunities, such as freelance performing and recording, as well as private teaching. Coursework in music technology and entrepreneurship further enhances opportunities for students who choose to pursue freelance employment. These opportunities are very dynamic, rapidly responding to advancing technology and an open and diverse media market. See http://www.uvu.edu/music/why/index.html for more information.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Music Directors and Composers
- Musicians and Singers

Nursing

Name:	Nursing
Location:	HP 203
Telephone:	801-863-8199
Email:	nursing@uvu.edu
Web Address:	uvu.edu/nursing
Chair:	Dale Maughan

Mission Statement

Our mission is to provide quality nursing education, helping students to cultivate requisite knowledge, sound clinical judgment, and a foundation for lifelong learning, as they progress toward becoming competent, caring nurses in a complex and changing health care environment.

Values

1. We are committed to the learning and success of our students. Student success is a measure of our success as nurse educators.
2. We believe that caring nurses promote the health of body, mind, and spirit in individuals, families and communities.
3. We are committed to serving our local, state and global communities. We promote and maintain positive relationships with our community partners. We promote health by educating nurses committed to work and service in their community.
4. We are dedicated to student-centered teaching. We value evidence-based teaching strategies and active, collaborative, experiential learning. Teaching and learning are a partnership in which students are ultimately responsible for their learning, and accountable for their nursing practice.
5. We encourage the pursuit of excellence through life-long learning. We expect our graduates to utilize sound clinical judgment and evidence-based nursing actions.
6. We believe honor and integrity are essential to learning and for nursing practice, and we promote professional standards of practice and behavior.
7. We value collegial collaboration as well as the rights and responsibilities of academic freedom. We encourage thoughtful and civil discourse, recognizing that free exchange of informed ideas enhances individual and community decision-making.
8. We appreciate the diversity and the interconnectedness in our faculty, students, and in the communities in which we practice. We celebrate diversity within our community.

Nursing

- **Department Chair:** Dale Maughan
- **Office:** HP 203x
- **Telephone:** 801-863-7411
- **Email:** Dale.Maughan@uvu.edu

Administrative Support:

- Lynn Wing
- **Office:** HP 203
- **Telephone:** 801-863-8211
- **Email:** LWing@uvu.edu
- **Mail Stop:** 172
- Diane Evans
- **Office:** HP 203
- **Telephone:** 801-863-8199
- **Email:** DianeE@uvu.edu

Pre-Nursing Advisors:

Students interested in applying to the nursing program please contact the Pre-Nursing advisors.

- Dana Walker
- **Office:** LC 404
- **Telephone:** 801-863-6484
- **Email:** dwalker@uvu.edu
- Melissa Eiche
- **Office:** LC 404
- **Telephone:** 801-863-6484
- **Email:** eicheme@uvu.edu
- Patrice Carey
- **Office:** LC 404
- **Telephone:** 801-863-6484
- **Email:** patrice.carey@uvu.edu

Nursing Advisor:

Students who are currently in the nursing program or already have an RN license contact the nursing advisor.

- Kathy Hafen
- **Office:** HP 203a
- **Telephone:** 801-863-6317
- **Email:** hafenka@uvu.edu

Program Coordinators:

- **Undergraduate:** Francine Jensen
- **Office:** HP 203v
- **Telephone:** 801-863-8169
- **Email:** francine.jensen@uvu.edu
- **Graduate:** Marianne Craven
- **Office:** HP 203s
- **Telephone:** 801-863-8052
- **Email:** cravenma@uvu.edu
-

Accreditation

The Associate (ASN), Baccalaureate (BSN completion), and Master of Science in Nursing (MSN) education program programs are accredited by the Accreditation Commission for Education in Nursing (ACEN).

The ACEN can be reached at:

- **Mailing Address:**

Accreditation Commission for Education in Nursing
3343 Peachtree Road NE, Suite 850
Atlanta, GA 30326

- **Telephone:** 404-975-5000
- **Fax:** 404-975-5020
- **Email:** info@acenursing.org
- **Web Address:** www.acenursing.org
-

Nursing Programs

Undergraduate nursing education includes an Associate in Science in Nursing (ASN) with Bachelor of Science in Nursing (BSN) completion program. Students seeking initial licensure as a registered nurse must apply for entry into the ASN program. Students accepted to the ASN program will matriculate into the BSN completion program, without the need for reapplication, upon successful completion of the ASN. In order to remain in

Nursing

the BSN completion program, students must obtain RN licensure and graduate with the ASN per department policy. Students seeking initial licensure in nursing should contact a pre-nursing advisor for additional program information and application processes. Licensed nurses should contact the Department of Nursing advisor for information regarding the BSN completion and Master of Science in Nursing programs.

The ASN program prepares the graduate to function individually as a member of the healthcare team in structured healthcare settings in which clients have common health problems. The BSN completion program prepares graduates to design, coordinate and manage healthcare, to assume leadership roles, to enter graduate education in nursing, and to develop leadership and management skills. The Master of Science in Nursing program prepares graduates as educators in both academic and clinical areas.

Information to consider, regarding the demands and performance requirements of nursing as a career, is available on our website at www.uvu.edu/nursing.

Admission Requirements

Admission to a nursing program is required in order to enroll in any nursing course. Admission to any of the nursing programs is by competitive application and is contingent upon satisfactory results of both a federal criminal background check and a drug screen. The Department of Nursing has sole discretion to deny acceptance based upon the information contained in either of these two reports. For students where English is a second language, admission is also contingent upon current TOEFL scores, which must be at or above the required minimum levels set by the Department of Nursing.

Please contact the appropriate advisors for information and current admission requirements. Also see our website at www.uvu.edu/nursing.

DEPARTMENT CHAIR

MAUGHAN, Dale *Associate Professor*

FACULTY

- BAGLEY, Katie** *Assistant Professor*
- BENNETT, Sean** *Associate Professor*
- BRADSHAW, Laurel** *Assistant Professor*
- BRUNGER, Candice** *Assistant Professor*
- CARLTON, Gaya** *Professor*
- CHEN, Hsiu-Chin** *Professor*
- COLE, Joy** *Assistant Professor*
- CRAVEN, Marianne** *Professor*
- JENSEN, Francine B.** *Assistant Professor*
- KELLER, David C.** *Associate Professor*
- KLEINMAN, Phill** *Assistant Professor*
- MAUGHAN, Dale** *Associate Professor*
- MCADAMS-JONES, Dianne** *Associate Professor*
- MEASOM, Gary** *Professor*
- MONSON, Natalie** *Assistant Professor*
- MUELLER, Katherine D.** *Associate Professor*
- NELSON, Troy** *Associate Professor*
- NICHOLS, Nyree-Dawn** *Assistant Professor*
- RUSSELL, Jamie** *Assistant Professor*
- SEAGROVE, Frey** *Assistant Professor*
- SWENSON, Allison** *Associate Professor*
- WAYMAN, Mina** *Associate Professor*

Course Descriptions

Nursing..... 768

Degrees & Programs

Nursing, ASN

Requirements

The UVU Nursing Program is a student-centered engaged learning experience where faculty facilitates learning nursing care through simulation and patient care. The Associate in Science in Nursing w/BSN Completion (ASN) program prepares the graduate to function individually as a member of the healthcare team in structured healthcare settings in which clients have common health problems. Acceptance into the ASN program is by a competitive, point-based application process. Prerequisite courses must be completed before applying to the program. For more information on applying to the ASN program see our website at www.uvu.edu/nursing or contact the Pre-Nursing advisors in LC 404 at 863-6484. After completing the 4 semesters of the ASN program, students would be eligible to graduate with an ASN and apply to take the NCLEX-RN exam. Graduates of the ASN program would be eligible to remain in the program, and seamlessly transition to the Bachelor of Science in Nursing (BSN) portion of the program. BSN completion takes an additional 2 full time semesters if students have also completed all the GE requirements, ZOO 4400, and MATH 1040 or MATH 2040.

Total Program Credits: 70

Matriculation Requirements:			
1. Acceptance into Nursing program (see Advisor)			
General Education Requirements:			27 Credits
BIOL 1610	College Biology I		4
CHEM 1110	Elementary Chemistry for the Health Sciences		4
ENGL 1010	Introduction to Writing		3
Complete one of the following:			3
MAT 1030	Quantitative Reasoning (3.0)		
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)		
STAT 1040	Introduction to Statistics (3.0)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (4.0)		
MATH 1055	College Algebra with Preliminaries (5.0)		
Complete the following:			
NUTR 1020	Foundations of Human Nutrition		3
PHIL 2050	Ethics and Values		3
PSY 1100	Human Development Life Span		3
ZOOL 2320	Human Anatomy		3
ZOOL 2325	Human Anatomy Laboratory		1
Discipline Core Requirements:			43 Credits
Complete the following with a minimum B- or higher:			
MICR 2060	Microbiology for Health Professions		3
MICR 2065	Microbiology for Health Professions Laboratory		1
NURS 2300	Nursing Health Assessment		2
NURS 2305	Nursing Health Assessment Laboratory		1
NURS 2310	Nursing Pharmacology		3
NURS 2320	Nursing Interventions		2
NURS 2325	Nursing Interventions Laboratory		2
NURS 2410	Nursing Care of Adults with Common Disorders		2
NURS 2415	Nursing Care of Adults with Common Disorders Clinical		2

NURS 2420	Nursing Care of the Aging Population	2
NURS 2430	Mental Health Nursing	2
NURS 2435	Mental Health Nursing Clinical	1
NURS 3300	Health Promotion and Health Teaching in Nursing	2
NURS 3330	Nursing Care of Persons with Complex Disorders	2
NURS 3335	Nursing Care of Persons with Complex Disorders Clinical	2
NURS 3340	Nursing Care of Women, Children, and Developing Families	3
NURS 3345	Nursing Care of Women, Children, and Developing Families Clinical	1
NURS 3400	Patient Care Coordination and Management	2
NURS 3405	Patient Care Coordination and Management Preceptorship	2
NURS 3440	Pharmacology for the Practicing Nurse	2
ZOOL 2420	Human Physiology	3
ZOOL 2425	Human Physiology Laboratory	1
ZOOL 4400	Pathophysiology (4.0)	

Graduation Requirements:

1. Completion of a minimum of 70 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of specified departmental requirements

Nursing, ASN Careers

Careers:
A nurse is a member of the healthcare team, focused on caring for individuals, families, and communities. Nurses work to ensure that patients attain, maintain, or recover optimal health and functioning. Nurses assess, plan, implement, and evaluate care.
UVU nursing graduates work in a wide variety of settings with varied job opportunities including:
Hospital: staff nurses, administrators, educators, case managers
Long-term care centers: staff nurses, administrators, educators
Hospice and home health care
Schools, colleges/universities
Health centers, clinics, and surgical centers
Armed services
Public health
Diabetes educators
Inpatient and outpatient psychiatric care

Related Careers

- Nursing Instructors and Teachers, Postsecondary
- Registered Nurses

Nursing, B.S.**Requirements**

A bachelor of science in nursing degree prepares students to practice across all types of health care settings. A BSN provides the greatest opportunity for advancement in the nursing field. A BSN is also required for entry into most graduate nursing programs including nurse practitioner, certified nurse anesthetist, nursing educator, or nurse researcher. Students interested in the BSN would first need to complete the ASN program. Acceptance into the ASN program is by a competitive, point-based application process. Prerequisite courses must be completed before applying to the program. For more information on applying to the ASN program see our website at www.uvu.edu/nursing or contact the Pre-Nursing advisors in LC 404 at 863-6484. After completing the 4 semesters of the ASN program, students would be eligible to graduate with an ASN and apply to take the NCLEX-RN exam. Graduates of the ASN program would be eligible to remain in the program, and seamlessly transition to the Bachelor of Science in Nursing (BSN) portion of the program. The BSN at UVU is a completion program and students who are not entering directly from the UVU ASN program must be licensed RNs prior to admission. For more information on entering the program if you are already an RN see the RN to BSN program at www.uvu.edu/nursing.

Online Degree Plan**Total Program Credits: 120**

Matriculation Requirements:			
1. Completion of Associate Degree in Nursing			
General Education Requirements:			36 Credits
ENGL 1010	Introduction to Writing		3
ENGL 2010	Intermediate Writing Humanities Social Sciences		3
Complete one of the following:			3
MAT 1030	Quantitative Reasoning (3.0)		
MAT 1035	Quantitative Reasoning with Integrated Algebra		
STAT 1040	Introduction to Statistics (3.0)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (4.0)		
MATH 1055	College Algebra with Preliminaries (5.0)		
Complete one of the following:			3
HIST 1700	American Civilization (3.0)		
HIST 2700	US History to 1877 (3.0)		
and HIST 2710	US History since 1877 (3.0)		
HIST 1740	US Economic History (3.0)		
POLS 1000	American Heritage (3.0)		
POLS 1100	American National Government (3.0)		
Complete the following:			
PHIL 2050	Ethics and Values		3
Distribution Courses			
BIOL 1610	College Biology I		4
CHEM 1110	Elementary Chemistry for the Health Sciences		4
PSY 1100	Human Development Life Span		3
ZOOL 2320	Human Anatomy		3

Nursing

and	ZOOL 2325	Human Anatomy Laboratory	1
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:			84 Credits
Complete the following with a minimum C or higher:			
	NURS 2300	Nursing Health Assessment	2
	NURS 2305	Nursing Health Assessment Laboratory	1
	NURS 2310	Nursing Pharmacology	3
	NURS 2320	Nursing Interventions	2
	NURS 2325	Nursing Interventions Laboratory	2
	NURS 2410	Nursing Care of Adults with Common Disorders	2
	NURS 2415	Nursing Care of Adults with Common Disorders Clinical	2
	NURS 2420	Nursing Care of the Aging Population	2
	NURS 2430	Mental Health Nursing	2
	NURS 2435	Mental Health Nursing Clinical	1
	NURS 3300	Health Promotion and Health Teaching in Nursing	2
	NURS 3330	Nursing Care of Persons with Complex Disorders	2
	NURS 3335	Nursing Care of Persons with Complex Disorders Clinical	2
	NURS 3340	Nursing Care of Women, Children, and Developing Families	3
	NURS 3345	Nursing Care of Women, Children, and Developing Families Clinical	1
	NURS 3400	Patient Care Coordination and Management	2
	NURS 3405	Patient Care Coordination and Management Preceptorship	2
	NURS 3440	Pharmacology for the Practicing Nurse	2
	NURS 4230	Palliative Care in Nursing	3
	NURS 4320	Nursing in the Community	2
	NURS 4325	Nursing in the Community Clinical	1
	NURS 4340	Genomics in Nursing and Health	2
	NURS 441G	Nursing in Global Perspective	3
	NURS 4500	Nursing Leadership	3
	NURS 4510	Clinical Assessment and Reasoning	2
	NURS 4520	Navigating Health Systems	3
	NURS 4540	Research and Theory in Nursing Practice	4
	NURS 4550	Quality and Safety in Nursing	3
	MICR 2060	Microbiology for Health Professions	3
	MICR 2065	Microbiology for Health Professions Laboratory	1
	NUTR 1020	Foundations of Human Nutrition	3
	ZOOL 2420	Human Physiology	3
	ZOOL 2425	Human Physiology Laboratory	1
	ZOOL 4400	Pathophysiology	4
University-level statistics course			3
	MGMT 2340	Business Statistics I (3)	
	BESC 3010	Statistics for the Behavioral Sciences (4)	

STAT 1040	Introduction to Statistics QL (3)	
STAT 1040 and STAT 1045 can be used only if not used for GE.		
Complete a minimum of 5 credits of adviser approved electives, a minimum of 2 from any upper-division nursing courses, not otherwise required for the Bachelor of Science degree.		5
RNs returning to complete BS in Nursing should contact the nursing advisor for requirements.		

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of GE and specified departmental requirements.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU.
5. Successful completion of at least one Global/Intercultural course.

Nursing, B.S.

Careers

Careers:
A BSN degree prepares students to practice across all types of health care settings. A BSN provides the greatest opportunity for advancement in the nursing field. A BSN is also required for entry into most graduate nursing programs including nurse practitioner, certified nurse anesthetist, nursing educator, or nurse researcher.
Applicants who already have an RN and would like to receive a BSN please see the information for the RN-BSN program on our website or contact the nursing advisor at 801-863-6317.

Related Careers

- Nursing Instructors and Teachers, Postsecondary
- Registered Nurses

Nursing Graduate Programs

College of Health and Public Service

- **Dean:** David A. McEntire
- **Office:** Hangar A - RM 207
- **Telephone:** 801-863-7817
- **Email:** david.mcentire@uvu.edu

Master of Science in Nursing

- **Department Chair:** Dale Maughan
- **Office:** HP 203x
- **Telephone:** 801-863-7411
- **Email:** dale.maughan@uvu.edu
- **Coordinator:** Marianne Craven
- **Office:** HP 203s
- **Telephone:** 801-863-8052
- **Email:** cravenma@uvu.edu
- **Advisor:** Kathy Hafen
- **Office:** HP 203a
- **Telephone:** 801-863-6317
- **Email:** kathy.hafen@uvu.edu

Accreditation

The Master of Science in Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA, 30326.

Program Description

The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or as clinical nurse educators in healthcare institutions. The program includes core courses essential to master-level nursing programs as well as courses designed to prepare nurses to assume roles as academic nurse educators and/or as clinical nurse educators. Program content focuses on: theoretical foundations of nursing education and leadership; tests and measurements of learning outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Program courses provide skills and strategies for facilitation of learning in a variety of settings.

Admission Requirements

Acceptance into the MSN program will be based on information from the following:

- Baccalaureate degree in nursing from a program accredited by a recognized nursing accreditation agency.
- Current licensure as an RN in Utah or eligible for RN licensure in Utah.
- Completion of an undergraduate course in statistics to include descriptive and inferential statistics.
- Application for admission to the MSN program.
- Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework.
- Three professional letters of recommendation

2018-19 Base Graduate-Tuition and General Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00	
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00	
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00	

2.0	566.00	70.00	636.00		2.0	1,726.00	70.00	1,796.00
2.5	707.50	87.50	795.00		2.5	2,157.50	87.50	2,245.00
3.0	849.00	105.00	954.00		3.0	2,589.00	105.00	2,694.00
3.5	990.50	122.50	1,113.00		3.5	3,020.50	122.50	3,143.00
4.0	1,132.00	140.00	1,272.00		4.0	3,452.00	140.00	3,592.00
4.5	1,273.50	157.50	1,431.00		4.5	3,883.50	157.50	4,041.00
5.0	1,415.00	175.00	1,590.00		5.0	4,315.00	175.00	4,490.00
5.5	1,556.50	192.50	1,749.00		5.5	4,746.50	192.50	4,939.00
6.0	1,698.00	210.00	1,908.00		6.0	5,178.00	210.00	5,388.00
6.5	1,839.50	227.50	2,067.00		6.5	5,609.50	227.50	5,837.00
7.0	1,981.00	245.00	2,226.00		7.0	6,041.00	245.00	6,286.00
7.5	2,122.50	262.50	2,385.00		7.5	6,472.50	262.50	6,735.00
8.0	2,264.00	280.00	2,544.00		8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00		8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00		9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00		9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00		10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50		10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00		11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50		11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00		12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50		12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00		13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50		13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00		14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50		14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00		15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50		15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00		16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50		16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00		17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50		17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00		18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50		18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00		19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50		19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00		20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50		20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00		21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50		21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00		22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50		22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00		23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50		23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00		24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50		24.5	21,143.50	350.00	21,493.50

Nursing Graduate Programs

25.0	7,075.00	350.00	7,425.00		25.0	21,575.00	350.00	21,925.00
For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents								

FACULTY

- BRADSHAW, Laurel** *Assistant Professor*
- CARLTON, Gaya** *Professor*
- CHEN, Hsiu-Chin** *Professor*
- CRAVEN, Marianne** *Professor*
- MAUGHAN, Dale** *Associate Professor*
- MCADAMS-JONES, Dianne** *Associate Professor*
- MEASOM, Gary** *Professor*

Course Descriptions

Nursing..... 768

Degrees & Programs

Nursing, M.S.N

Requirements

The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or clinical nurse educators in healthcare institutions. The program includes core courses essential to master-level nursing programs as well as courses designed to prepare nurses to assume roles as academic nurse educators and/or clinical nurse educators. Program content focuses on theoretical foundations of nursing education and leadership; tests and measurements of learning outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Program courses provide skills and strategies for facilitation of learning in a variety of settings.

[Online Degree Plan](#)

Total Program Credits: 34

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Baccalaureate degree in nursing from a program accredited by a recognized nursing accreditation agency. 2. Current licensure as an RN in Utah or eligible for RN licensure in Utah. 3. Completion of an undergraduate course in statistics to include descriptive and inferential statistics. 4. Application for admission to the MSN program. 5. Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework. 6. Three professional letters of recommendation. 			
Discipline Core Requirements:			34 Credits
	NURS 6000	Leadership Development	2
	NURS 6050	Nursing Informatics	2
	NURS 6200	Advanced Nursing Theory	2
	NURS 6250	Advanced Nursing Research	3
	NURS 6300	Advanced Nursing in Health Systems and Policy	2
	NURS 6350	Advanced Nursing Pathophysiology/ Pharmacology	3
	NURS 6450	Advanced Nursing Assessment	3
	NURS 6500	Curriculum Design and Development	3
	NURS 6600	Teaching Nursing in the Classroom Setting	2
	NURS 6605	Teaching Nursing in the Classroom Setting Practicum	2
	NURS 6650	Teaching Nursing in the Clinical Setting	2

NURS 6655	Teaching Nursing in the Clinical Setting Practicum	2
NURS 6700	Evaluation of Learning Outcomes	3
NURS 6795	Synthesis of Teaching Practice Practicum	1
NURS 699R	MSN Project or Thesis	2

Graduation Requirements:

1. Complete all discipline core courses with a grade of 3.0 or better
2. Project or thesis completed and accepted by Department of Nursing Graduate Committee

Nursing, M.S.N Careers

Careers:
Graduates of the UVU MSN program have the knowledge, skills and experience needed to educate nurses in academic and other professional settings. The program prepares registered nurses for advanced practice roles including nursing faculty in higher education, clinical nurse educators in healthcare institutions, and nursing leadership roles.

Related Careers

- Nursing Instructors and Teachers, Postsecondary
- Registered Nurses

Office of Teaching and Learning

Name:	Office of Teaching and Learning
Location:	5th floor of the Fulton Library
Telephone:	801-863-8255
Email:	Canvas_Support@uvu.edu (for students) teachinglearning@uvu.edu (for faculty)
Web Address:	www.uvu.edu/otl
Senior Director	Wendy Athens

Office of Teaching and Learning

- **Senior Director:** Wendy Athens
- **Office:** FL 510
- **Telephone:** 801-863-7358
- **Email:** wendy.athens@uvu.edu
-
- **Administrative Assistant III:** Andrea Nielsen
- **Office:** FL 501
- **Telephone:** 801-863-8882
- **Email:** andrea.nielsen@uvu.edu
- **Associate Director, Faculty Development:** Ursula Sorensen
- **Office:** FL 514a
- **Telephone:** 801-863-8372
- **Email:** sorensur@uvu.edu
- **Director, Instructional Design Services:** Seth Gurell
- **Office:** FL 511
- **Telephone:** 801-863-7351
- **Email:** seth.gurell@uvu.edu
- **Director, Support Services:** Karen Merrick
- **Office:** FL 508
- **Telephone:** 801-863-7163
- **Email:** merrick@uvu.edu

About Office of Teaching and Learning

The mission of the OTL is to enable the enhancement of teaching and learning practice across the Institution. This is achieved in four key ways:

- By providing meaningful faculty development opportunities, leading to certification and international recognition for teaching excellence
- By supporting the use and effective integration of learning technologies, including the University's Learning Management System (Canvas)
- By collaborating with faculty to design and redesign high quality learning experiences (courses, full programs, learning activities, and assessments)
- By providing tools and guidance for formative, constructive evaluation of teaching effectiveness

Questions?

Faculty with questions about online courses should contact 801-863-8255 or canvas_support@uvu.edu. Faculty with questions about Canvas can contact the Office of Teaching and Learning Lab at 801-863-6127, or email otllab@uvu.edu.

Degrees at a Distance

See the [index of UVU's online degrees](#)

Organizational Leadership

Name:	Organizational Leadership
Location:	WB 134
Telephone:	801-863-8134
Email:	Jeff.Peterson@uvu.edu
Web Address:	uvu.edu/woodbury/management/
Chair:	Jeff Peterson

Mission Statement

The Department of Organizational Leadership supports and drives forward the Vision of the Woodbury School of Business (WSB), which is (that) "... (a)s a community-engaged school of business that integrates teaching and scholarship, we aspire to be a school of choice and a leader in student development, entrepreneurship, global involvement, and innovative teaching."

We do this, as do all departments in the WSB, through...

- Quality instruction and student involvement
- Faculty and student scholarship
- Community outreach and engaged learning
- Integration and application of knowledge
- Social, ethical, cultural, and global literacy

Hospitality Management

Program Coordinator: Doug Miller

- **Office:** WB 203c
- **Telephone:** 801-863-8106
- **Email:** millerdo@uvu.edu

Career Opportunities

The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation's economy. The additions of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

The Hospitality Management program in the Woodbury School of Business offers a Bachelor of Science degree in Hospitality Management, as well as a Bachelor of Science degree in Business Management, with an Emphasis in Hospitality Management. Associate in Science and Associate in Applied Science degrees are also offered.

The Bachelor of Science in Hospitality Management degree offers the possibility for a student to choose one of four tracks: General Operations; Revenue Management, Sales, and Event Planning. The Hospitality program also offers a Minor in Event Planning.

Programs

Four degrees are available: Associate in Applied Science; Associate in Science Degree; a Bachelor of Science in Hospitality Management; and Bachelor of Science in Business Management with an Emphasis in Hospitality Management.

Human Resource Management

Program Coordinator: Bernd Kupka

- **Office:** WB 146n
- **Telephone:** 801-863-8125
- **Email:** Bernd.Kupka@uvu.edu

Career Opportunities

The Human Resource Management program prepares graduates for employment in one of the fastest growing fields in the nation's economy. The State of Utah has designated what it characterizes as "Five Star" occupations—those that will have the highest growth in demand for new job openings over the next decade, one of which is Administrative Services Managers (of which HR managers are one group). Additionally, the US Department of Labor Statistics estimates that the job growth outlook for HR managers for the years from 2012 to 2022 is 13%.

In addition to the growth in HR employment, the quality of HR services is also a severe concern for many organizations. Currently, many HR departments lack crucial skills necessary for success. The Human Resource Management program will prepare students with a future-oriented, comprehensive HR education to be able to immediately contribute to the strategic goals of their prospective employers.

Programs

The Human Resource Management program in the Woodbury School of Business offers both a Bachelor of Science and Bachelor of Arts degree in Human Resource Management, as well as a Human Resource Management minor.

Legal Studies

Interim Program Director: Jeff Peterson

- **Office:** WB 242
- **Telephone:** 801-863-6026
- **Email:** Jeff.Peterson@uvu.edu

Career Opportunities

For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys.

Paralegals may not provide legal services directly to the public, except as permitted by law.

The Minor is not approved by the American Bar Association and is not intended to prepare students to work as Paralegals.

Programs

Legal Studies students may receive a Certificate of Proficiency in Legal Studies, Associate in Applied Science in Legal Studies, an Associate in Science in Legal Studies, or a Bachelor of Science in Legal Studies. These programs are all approved by the American Bar Association.

Admission Requirements

In addition to applying for admission to Utah Valley University, Legal Studies students must meet the following admission requirements:

- Submit Compass Test scores to a Woodbury School of Business advisor for evaluation. Applicants who score below the required level must register for additional courses in English, reading and/or math.
- Meet with a Woodbury School of Business advisor.

Cooperative Education

Cooperative education or an internship is required for Legal Studies students. A total of eight credits may be applied toward graduation.

Woodbury School of Business

Advisement Center:

- **Office:** WB 257
- **Telephone:** 801-863-8032

Dean: Norman S. Wright

- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu

DEPARTMENT CHAIR

PETERSON, Jeffrey Associate Professor

FACULTY

- ANDRADE, Maureen** Professor
- BROWN, Marc Nathaniel** Professional in Residence
- CHAPMAN, Jared** Assistant Professor
- CONAWAY, Teresa** Assistant Professor
- HUO, Yang Hwae** Associate Professor
- JOHNSON, Russ** Professional In Residence
- KUPKA, Bernd** Associate Professor
- MADSEN, Susan Rae** Professor
- MILLER, Douglas** Professor
- MILLER, Ronald** Professor
- PETERSON, Jeffrey** Associate Professor
- WESTOVER, Jonathan** Associate Professor
- YAMEN, Sharon** Assistant Professor

Course Descriptions

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Degrees & Programs

Hospitality Management, A.A.S.

Requirements

The Hospitality Management program in the Woodbury School of Business offers a Bachelor of Science degree in Hospitality Management (as well as supporting a Bachelor of Science degree in Business Management, with an Emphasis in Hospitality Management – listed elsewhere). Associate in Science and Associate in Applied Science degrees are also offered.

Total Program Credits: 63

General Education Requirements:		20 Credits
ENGLISH		
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
MATHEMATICS		
MAT 1010	Intermediate Algebra	4
or	Any higher Mathematics Course	
or	Any approved Departmental Mathematics Course	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		
	Ethics and Values (PHIL 2050 recommended)	3

or	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		
SOCIAL BEHAVIORAL SCIENCE			
	Any approved Behavioral Science, Social, or Political Science Distribution Course		3
BIOLOGY OR PHYSICAL SCIENCE			
	Any approved Biology or Physical Science Distribution Course		3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			
	Any approved Physical Education, Health, Safety or Environment Course		1
Discipline Core Requirements:			37 Credits
My Educator*			
or	IM 2010	Business Computer Proficiency (3.0)	
or	IM 2600	Spreadsheet Applications (3.0)	
	HM 1010	Introduction to Hospitality Industry	3
	HM 1110	Culinary Basics	3
	HM 1130	Hotel Operations I	3
	HM 1180	Food and Beverage Management	3
	HM 281R	Cooperative Work Experience	4
	HM 3020	Hospitality Managerial Accounting	3
	HM 3390	Hotel Operations II	3
	HM 3640	Food and Beverage Controls	3
	ACC 2010	Financial Accounting	3
	MKTG 2200	Written Business Communication	3
	MKTG 3890	Career Preparation	3
	ECON 1010	Economics as a Social Science	3
Elective Requirements:			6 Credits
Six hours of elective credits from HM, ACC, ECON, ENTR, DGM, FIN, INFO, LEGL, MGMT, MKTG or PRLG courses.			6

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a "C-" in hospitality or other Woodbury School of Business Courses.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU; at least 16 credits must be in Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnote
* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

Hospitality Management, A.A.S.

Careers

Careers:
The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation's economy. The additions of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

Organizational Leadership

Related Careers

- Food Service Managers
- Lodging Managers

Hospitality Management, A.S.

Requirements

The Hospitality Management program in the Woodbury School of Business offers a Bachelor of Science degree in Hospitality Management (as well as supporting a Bachelor of Science degree in Business Management, with an Emphasis in Hospitality Management – listed elsewhere). Associate in Science and Associate in Applied Science degrees are also offered.

Total Program Credits: 60

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher			
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (COMM 1020 recommended)		3
	Fine Arts Distribution		3
	ECON 1010 or ECON 2020	Economics as a Social Science or Macroeconomics (3.0)	3
or			
Discipline Core Requirements:		15 Credits	

	ACC 2010	Financial Accounting	3
	HM 1010	Introduction to Hospitality Industry	3
	HM 1130	Hotel Operations I	3
	HM 1180	Food and Beverage Management	3
	My Educator *		
or	IM 2010	Business Computer Proficiency (3.0)	
or	IM 2600	Spreadsheet Applications (3.0)	
	MKTG 2200	Written Business Communication	3
Elective Requirements:			10 Credits
Complete ten hours of elective credits from HM, ACC, DGM, ECON, FIN, INFO, LEGL, MGMT, or MKTG courses.			10

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade below a "C-" in hospitality or other Woodbury School of Business courses.
3. Residency hours-- a minimum of 20 credit hours through course attendance at UVU: at least 16 credits must be in Woodbury School of Business
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnote

*Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

Hospitality Management, A.S. Careers

Careers:
The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation's economy. The additions of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.

Related Careers

- Food Service Managers
- Lodging Managers

Legal Studies, A.A.S.

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association.

Total Program Credits: 63

General Education Requirements:		21 Credits	
Complete the following:			
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
	MAT 1010	Intermediate Algebra	4

	PHIL 2050	Ethics and Values	3
	Complete one approved Social/Behavioral Science GE course.		3
	Complete one approved Biology/Physical Science GE course.		3
Complete one of the following:			2
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life (2.0)	
Discipline Core Requirements:			40 Credits
	PRLG 1000	Introduction to American Law	3
	PRLG 2000	Introduction to Paralegal Studies	3
	PRLG 2100	Civil Litigation I	3
	PRLG 2200	Legal Research and Writing I	3
	PRLG 2300	Technology in Law Practice	3
	PRLG 3100	Civil Litigation II	3
	PRLG 3300	Criminal Law and Procedure	3
	PRLG 4200	Legal Research and Writing II	3
	PRLG 4400	Family Law	3
	PRLG 481R	Internship	3
	LEGL 3000	Business Law	3
	ACC 1750	Applied Accounting	4
	MKTG 2390	Professional Business Presentations	3
Elective Requirements:			2 Credits
	Two additional credits in any elective		2

Graduation Requirements:

1. Completion of a minimum of 63 or more semester credits
2. Overall grade point average of 2.0 (C) or above. Must have a grade of C+ or higher in all Core requirements.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU. At least 12 of these credits must be in LEGL, PRLG courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Legal Studies, A.A.S.

Careers

Careers:	
For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state, and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law.	

Related Careers

- Paralegals and Legal Assistants
- Title Examiners, Abstractors, and Searchers
- Legal Support Workers, All Other

Legal Studies, A.S.

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many

topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association.

Total Program Credits: 61

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			26 Credits
	PRLG 1000	Introduction to American Law	3
	PRLG 2000	Introduction to Paralegal Studies	3
	PRLG 2100	Civil Litigation I	3
	PRLG 2200	Legal Research and Writing I	3
	PRLG 2300	Technology in Law Practice	3
	PRLG 3100	Civil Litigation II	3
	PRLG 281R	Internship	1
	ACC 1750	Applied Accounting	4
	MKTG 2390	Professional Business Presentations	3

Graduation Requirements:

1. Completion of a minimum of 61 or more semester credits

Organizational Leadership

- Overall grade point average of 2.0 (C) or above. Must have a grade of C+ or higher in all Core requirements.
- Residency hours: Minimum of 20 credit hours through course attendance at UVU. At least 12 of these credits must be in LEGL, PRLG courses.
- Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Legal Studies, A.S.

Careers

Careers:	
For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state, and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law.	

Related Careers

- Paralegals and Legal Assistants
- Title Examiners, Abstractors, and Searchers
- Legal Support Workers, All Other

Legal Studies, Certificate of Proficiency

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association. A student seeking a Certificate in Legal Studies must have a previous degree of AS/AA or BS/BA.

Total Program Credits: 28

Discipline Core Requirements:		28 Credits
PRLG 1000	Introduction to American Law	3
PRLG 2000	Introduction to Paralegal Studies	3
PRLG 2100	Civil Litigation I	3
PRLG 2200	Legal Research and Writing I	3
PRLG 2300	Technology in Law Practice	3
PRLG 3100	Civil Litigation II	3
LEGL 3000	Business Law	3
ACC 1750	Applied Accounting	4
PRLG 481R	Internship (1.0)	3

Graduation Requirements:

- Completion of a minimum of 28 credits.
- Overall grade point average of 2.0 (C) or above.
- Residency hours -- Minimum of 7 credits required through course attendance at UVU.

Legal Studies, Certificate of Proficiency

Careers

Careers:	
For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and	

government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state, and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law.

Related Careers

- Paralegals and Legal Assistants
- Title Examiners, Abstractors, and Searchers
- Legal Support Workers, All Other

Event Planning, Minor

Requirements

The Minor in Event Planning will require eighteen credit hours of courses currently being offered. The minor provides undergraduate Woodbury Business students an official designation on their transcript, highlighting their specific qualifications in this area. The courses in the minor offer students the opportunity to learn event planning management techniques needed to successfully plan, manage, and execute events. Students who complete these classes will have a clear designation highlighting their preparation for this particular set of skills.

Total Program Credits: 18

Discipline Core Requirements:		12 Credits
MKTG 2390	Professional Business Presentations	3
MKTG 3600	Principles of Marketing	3
or HM 3710	Marketing of Hospitality Services (3.0)	
HM 3210	Convention and Events Management	3
HM 4200	Event Planning	3
Elective Requirements:		6 Credits
Choose two of the following:		6
HM 1110	Culinary Basics (3.0)	
MKTG 3650	Professional Selling (3.0)	
HM 3640	Food and Beverage Controls (3.0)	
MKTG 3460	Internal Marketing and Corporate Imaging (3.0)	
ART 1810	Introduction to Interior Design (3.0)	

Graduation Requirements:

- Complete the 12 credits from the Core Requirements section and six credits from the Elective Requirements section.

Event Planning, Minor

Careers

Related Careers

- Meeting, Convention, and Event Planners

Human Resource Management, Minor

Requirements

The Department of Management in the Woodbury School of Business at Utah Valley University currently has a Bachelor of Science in Business Management with a track in HRM (within the General Business emphasis). The proposed BS/BA and Minor in Human Resource Management would strengthen the program offerings of the Woodbury School of Business. By structuring the degree requirements to enhance the curriculum, it would add rigor to the program and greater professional competence to graduates.

Total Program Credits:18

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			18 Credits
	HR 3430	Introduction to Human Resource Management	3
	HR 3530	Employment and Labor Law	3
	HR 4000	Total Compensation I--Pay and Incentives	3
	HR 4610	Workforce Planning and Staffing	3
	HR 4010	Total Compensation II--Benefits	3
	HR 4050	Human Resource Information Systems	3

Graduation Requirements:

- Overall grade point average of 2.5 in all Woodbury School of Business courses and no grade lower than a C- in business courses.

Human Resource Management, Minor Careers

Related Careers

- Compensation and Benefits Managers
- Human Resources Managers
- Training and Development Managers
- Human Resources Specialists
- Labor Relations Specialists
- Compensation, Benefits, and Job Analysis Specialists
- Training and Development Specialists
- Business Teachers, Postsecondary

Legal Studies, Minor

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The Minor in Legal Studies is not approved by the American Bar Association and is not intended to prepare students to work as paralegals.

Total Program Credits: 24

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			12 Credits
	PRLG 1000	Introduction to American Law	3
	PRLG 2000	Introduction to Paralegal Studies	3
	PRLG 2100	Civil Litigation I	3
	PRLG 2200	Legal Research and Writing I	3
Elective Requirements:			12 Credits
Choose 12 credits from any PRLG or LEGL courses in the curriculum			12

Graduation Requirements:

- Overall grade point average of 2.5 in all Woodbury School of Business (LEGL/ PRLG) courses and no grade lower than a C+ in specialty core and elective courses.

Legal Studies, Minor Careers

Careers:		
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For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-related needs. All levels of local, state and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/ legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law. The minor is not approved by the American Bar Association and is not intended to prepare students to work as paralegals.

Related Careers

- Paralegals and Legal Assistants
- Title Examiners, Abstractors, and Searchers
- Legal Support Workers, All Other

Hospitality Management, B.S.

Requirements

The Bachelor of Science in Hospitality Management degree offers the possibility for a student to choose one of four specializations: General Operations; Revenue Management; Food and Beverage Management (designed mainly for Culinary Arts AAS graduates); and Foreign Language Track (which provides 12-15 hours of language credit).

[Online Degree Plan](#)

Total Program Credits: 120

Matriculation Requirements:			12 Credits
	ACC 2010	Financial Accounting	3
	HM 1010	Introduction to Hospitality Industry	3
	MKTG 2200	Written Business Communication (Complete with a B- grade or higher)	3
	HM 2500	Statistics for the Hospitality Industry	3
My Educator *			
or	IM 2010	Business Computer Proficiency (3.0)	
or	IM 2600	Spreadsheet Applications (3.0)	
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning	3
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	

Organizational Leadership

	POLS 1000	American Heritage (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution	3
		Fine Arts Distribution	3
	ECON 1010	Economics as a Social Science (fulfills Social/ Behavioral Science requirement)	3
or	ECON 2020	Macroeconomics (3.0) (fulfills Social/Behavioral Science requirement)	
Discipline Core Requirements:			60 Credits
	HM 1130	Hotel Operations I	3
	HM 1180	Food and Beverage Management	3
	HM 3020	Hospitality Managerial Accounting	3
	HM 3100	Hospitality Law	3
	HM 3150	Hospitality Finance	3
	HM 3390	Hotel Operations II	3
	HM 3640	Food and Beverage Controls	3
	HM 3710	Marketing of Hospitality Services	3
	HM 4550	Hospitality Strategic Management	3
	HM 481R	Internship	6
	MGMT 3000	Organizational Behavior	3
or	HR 3430	Introduction to Human Resource Management (3.0)	
	MGMT 332G	Cross-Cultural Communications for International Business	3
	MKTG 3890	Career Preparation	3
Complete one of the following four tracks:			18
General Operations			
	HM 4150	Hospitality Revenue Management (3.0)	
Fifteen credit hours (min 4 hrs must be 3000 level or higher) from ACC, CA, DGM, ECON, ENTR, FIN, HM, IM, LANG, LEGL, MGMT, MKTG, or PRLG courses.			
Revenue Management			
	ECON 2010	Microeconomics (3.0)	
	HM 4150	Hospitality Revenue Management (3.0)	
Twelve credits (min 4 hrs 3000 level or higher) from ACC, CA, DGM, ECON, ENTR, FIN, HM, IM, LANG, LEGL, MGMT, MKTG, or PRLG courses. (Suggest MKTG 3640, Sales Management)			
Sales			
	MKTG 3640	Sales Management (3.0)	

	MKTG 3650	Professional Selling (3.0)	
	HM 4150	Hospitality Revenue Management (3.0)	
Nine credits from ACC, CA, DGM, ECON, ENTR, FIN, HM, IM, LANG, LEGL, MGMT, MKTG, or PRLG courses. (Suggest MKTG 4610, Sales Analytics)			
Event Planning			
	MKTG 2390	Professional Business Presentations (3.0)	
	MKTG 3460	Internal Marketing and Corporate Imaging (3.0)	
	HM 3210	Convention and Events Management (3.0)	
	HM 4200	Event Planning (3.0)	
Six credits from HM 1110, MKTG 3650, or ART 1810			
Elective Requirements:			13 Credits
Complete 13 hours of electives from any course 1000 level or higher			13

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with at least 40 credit hours of upper-division classes.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours. At least 12 of the credit hours must be in Hospitality Management courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote

* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

Hospitality Management, B.S. Careers

Careers:	
The Hospitality Management program prepares graduates for employment in one of the fastest growing segments of the nation's economy. The additions of several new convention centers in the state have dramatically increased the need for hotel and restaurant facilities. Students are marketable in a wide range of hospitality and tourism areas such as: hotel, resort, and motel management; event planning; restaurant and institutional food service; and a number of other areas such as cruise ship management, amusement park management, convention and visitor facilities, and gaming facilities.	

Related Careers

- Food Service Managers
- Lodging Managers

Human Resource Management, B.A.

Requirements

The HRM program will provide students with practical and applied skills, experience in applying those skills, and a variety of intellectual tools to prepare them for HRM careers in business, government, and non-profit organizations. The proposed classes, engaged pedagogy, and instructors will aim to prepare students for staffing organizations, setting and advising procedures for recruitment, interview, and placement. Additionally, students will be prepared for carrying out disciplinary action, tracking leave and absences, and ensuring the health, safety, and development of organizational employees. HR graduates will also be prepared to advise company management on labor law issues.

Total Program Credits: 120

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business	
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher			
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics (fulfills Social/Behavioral Science credit)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (any foreign language 202G/2020 class)		4
	Fine Arts Distribution		3
Discipline Core Requirements:		68 Credits	
Business Foundation Courses (required for matriculation):			
	ACC 2010	Financial Accounting (3.0)	3
	ACC 2020	Managerial Accounting (3.0)	3
	My Educator*		
or	IM 2010	Business Computer Proficiency (3.0) *	
or	IM 2600	Spreadsheet Applications (3.0) *	
	ECON 2010	Microeconomics	3
	MATH 1100	Introduction to Calculus	
or	MGMT 2240	Business Calculus (3.0)	3
	MKTG 2200	Written Business Communication (Complete with B- grade or higher)	3
	MGMT 2340	Business Statistics I	3
	MKTG 2390	Professional Business Presentations	3
Business Core Courses:			
	FIN 3100	Principles of Finance **	3

	LEGL 3000	Business Law	3
	MGMT 3000	Organizational Behavior	3
	HR 4050	Human Resource Information Systems**	3
	MGMT 330G	Survey of International Business	3
or	MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
or	ECON 305G	International Economics (3.0)	
or	MKTG 335G	International Marketing (3.0)	
	MGMT 3450	Operations Management	3
	MKTG 3600	Principles of Marketing	3
	MKTG 3890	Career Preparation	3
	MGMT 4860	Business Strategy Formulation and Implementation **	4
or	MGMT 4840	Management Consulting (3.0)	
or	MGMT 4835	Management Consulting Strategy Implementation (1.0)	
	MGMT 495R	Executive Lecture Series	1
Human Resource Management Core Requirements			
	HR 3430	Introduction to Human Resource Management	3
	HR 3550	Organization Development	3
	HR 3570	Training and Development	3
	HR 4000	Total Compensation I--Pay and Incentives	3
	HR 4010	Total Compensation II--Benefits	3
	HR 4610	Workforce Planning and Staffing	3
Elective Requirements:		16 Credits	
	Complete 12 credits of any foreign language course 1010, 1020, 2010 sequence		12
	MGMT 481R	Internship (1.0)	3
	Complete any 1 credits numbered 1000 or higher		1

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote
* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.
** Cannot be taken until student is matriculated.

Human Resource Management, B.A. Careers

Careers:

Organizational Leadership

Human Resource (HR) professionals are in higher demand than ever in the USA and in Utah. As a trained Human Resource Management (HRM) specialist, you will have the opportunity to impact people's and organizations' lives very directly. You will give people/employees a chance to make a life for themselves, improve their careers, and build a future for their families. In companies, you will plan, direct, and coordinate human resources activities and staff of organizations, impact company bottom lines, help build communities, and improve the economic climate in the State of Utah and beyond. Typical jobs in HRM are generalists, total compensation specialists, training & development specialists, HR information systems specialists, staffing/recruiting specialists, and legal compliance officers. With a UVU degree as a Bachelor of Science or Bachelor of Arts in HRM, you will gain a competitive advantage in the job market through the practical acquisition of knowledge, skills, and professional connections in the HR field.

Related Careers

- Compensation and Benefits Managers
- Human Resources Managers
- Training and Development Managers
- Human Resources Specialists
- Labor Relations Specialists
- Compensation, Benefits, and Job Analysis Specialists
- Training and Development Specialists
- Business Teachers, Postsecondary

Human Resource Management, B.S.

Requirements

The HRM program will provide students with practical and applied skills, experience in applying those skills, and a variety of intellectual tools to prepare them for HRM careers in business, government, and non-profit organizations. The proposed classes, engaged pedagogy, and instructors will aim to prepare students for staffing organizations, setting and advising procedures for recruitment, interview, and placement. Additionally, students will be prepared for carrying out disciplinary action, tracking leave and absences, and ensuring the health, safety, and development of organizational employees. HR graduates will also be prepared to advise company management on labor law issues.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher		
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3

	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics (fulfills Social/Behavioral Science credit)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:			68 Credits
Business Foundation Courses (required for matriculation):			
	ACC 2010	Financial Accounting (3.0)	3
	ACC 2020	Managerial Accounting (3.0)	3
	My Educator*		
or	IM 2010	Business Computer Proficiency (3.0) *	
or	IM 2600	Spreadsheet Applications (3.0)*	
	ECON 2010	Microeconomics	3
	MATH 1100	Introduction to Calculus (4.0)	
or	MGMT 2240	Business Calculus	3
	MKTG 2200	Written Business Communication (Complete with B- grade or higher)	3
	MGMT 2340	Business Statistics I	3
	MKTG 2390	Professional Business Presentations	3
Business Core Courses:			
	FIN 3100	Principles of Finance **	3
	LEGL 3000	Business Law	3
	MGMT 3000	Organizational Behavior	3
	HR 4050	Human Resource Information Systems**	3
	MGMT 330G	Survey of International Business	3
or	MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
or	ECON 305G	International Economics (3.0)	
or	MKTG 335G	International Marketing (3.0)	
	MGMT 3450	Operations Management	3
	MKTG 3600	Principles of Marketing	3
	MKTG 3890	Career Preparation	3
	MGMT 4860	Business Strategy Formulation and Implementation **	4
or	MGMT 4840	Management Consulting (3.0)	
and	MGMT 4835	Management Consulting Strategy Implementation (1.0)	
	MGMT 495R	Executive Lecture Series	1
Human Resource Management Core Requirements			
	HR 3430	Introduction to Human Resource Management	3
	HR 3550	Organization Development	3
	HR 3570	Training and Development	3
	HR 4000	Total Compensation I--Pay and Incentives	3

HR 4010	Total Compensation II--Benefits	3
HR 4610	Workforce Planning and Staffing	3
Elective Requirements:		17 Credits
Select 12 credits from the following:		12
MGMT 481R	Internship (Must be taken for 3 credits) (1.0)	
HR 3530	Employment and Labor Law (3.0)	
HR 495R	Advanced Topics in Strategic Human Resource Management (1.0)	
Any 3000-4000 level WSB courses		
Select 5 credits of any non-Woodbury School of Business courses		5

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global / Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote
* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.
** Cannot be taken until student is matriculated.

Human Resource Management, B.S. Careers

Careers:
Human Resource (HR) professionals are in higher demand than ever in the USA and in Utah. As a trained Human Resource Management (HRM) specialist, you will have the opportunity to impact people's and organizations' lives very directly. You will give people/employees a chance to make a life for themselves, improve their careers, and build a future for their families. In companies, you will plan, direct, and coordinate human resources activities and staff of organizations, impact company bottom lines, help build communities, and improve the economic climate in the State of Utah and beyond. Typical jobs in HRM are generalists, total compensation specialists, training & development specialists, HR information systems specialists, staffing/recruiting specialists, and legal compliance officers. With a UVU degree as a Bachelor of Science or Bachelor of Arts in HRM, you will gain a competitive advantage in the job market through the practical acquisition of knowledge, skills, and professional connections in the HR field.

Related Careers

- Compensation and Benefits Managers
- Human Resources Managers
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- Human Resources Specialists
- Labor Relations Specialists
- Compensation, Benefits, and Job Analysis Specialists
- Training and Development Specialists
- Business Teachers, Postsecondary

Legal Studies, B.S.

Requirements

Programs in Legal Studies at UVU offer an applied and technical perspective in U.S. law and legal practice. The department provides dynamic and timely offerings in many topics in law and clinical law practice, focusing on career-ready skills. The AAS, AS, and BS degrees, as well as the Certificate of Proficiency, in Legal Studies are approved by the American Bar Association.

Total Program Credits: 120

Matriculation Requirements:		
1. Completion of PRLG 1000, PRLG 2000, PRLG 2100, PRLG 2200, and PRLG 2300 with C+ or higher.		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		55 Credits
All PRLG core discipline core courses must be completed with minimum C+ grade or higher		
PRLG 1000	Introduction to American Law	3
PRLG 2000	Introduction to Paralegal Studies	3

Organizational Leadership

PRLG 2100	Civil Litigation I	3
PRLG 2200	Legal Research and Writing I	3
PRLG 2300	Technology in Law Practice	3
PRLG 3100	Civil Litigation II	3
PRLG 4200	Legal Research and Writing II	3
PRLG 3300	Criminal Law and Procedure	3
PRLG 4400	Family Law	3
LEGL 3000	Business Law	3
PRLG 481R	Internship	3
Required Business and Related Courses		
ACC 1750	Applied Accounting	4
MGMT 2110	Interpersonal Communication	3
MKTG 2200	Written Business Communication	3
MKTG 2390	Professional Business Presentations	3
MGMT 3000	Organizational Behavior	3
MKTG 3890	Career Preparation	3
SOC 320G	Race and Minority Relations	3
Elective Requirements:		30 Credits
Choose Three (3) from the following in consultation with advisors or faculty. (Consider the need to have sufficient upper division courses to meet the 40 hours of upper division required for graduation) Any LEGL or PRLG course or:		9
CJ 2350	Laws of Evidence (3.0)	
CJ 4160	Constitutional Criminal Rights (3.0)	
HIST 3870	Constitutional History to Plessy 1896 (3.0)	
HIST 3880	Constitutional History since Plessy 1896 (3.0)	
PHIL 3710	Philosophy of Law (3.0)	
PJST 3000	Introduction to Peace and Justice Studies (3.0)	
POLS 4790	US Constitution	
Other electives which could include a minor from another department, emphasis in mediation and negotiation, or other curriculum in consultation with faculty or advisors.		21

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits with 40 semester credits from 3000 and 4000 level courses.
2. Overall grade point average of 2.0 (C) or above. Must have a grade of (C+) or higher in all core and legal elective requirements.
3. Residency hours-- minimum of 30 credit hours of School of Business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Legal Studies, B.S. Careers

Careers:	
For those trained as legal professionals, many rewarding opportunities exist for employment as law clerks, paralegals, legal assistants, litigation specialists, court clerks, and other professions. In addition to traditional law firms, business and government at all levels hire legal professionals to meet their ever expanding law-	

related needs. All levels of local, state, and federal government, banks, insurance companies, title companies, mortgage companies, law libraries, courts, legal service/legal aid offices, legal clinics, and law departments of special interest groups or associations readily employ non-attorney legal professionals, typically working under the supervision of attorneys. Paralegals may not provide legal services directly to the public, except as permitted by law.

Related Careers

- Paralegals and Legal Assistants
- Title Examiners, Abstractors, and Searchers
- Legal Support Workers, All Other

Philosophy and Humanities

Name:	Philosophy & Humanities
Location:	CB 507 (PHIL) & CB 211 (HUM)
Telephone:	801-863-8352 & 801-863-6284
Email:	
Web Address:	uvu.edu/philhum
Chair:	Leslie Simon

Mission Statement

The UVU Philosophy and Humanities Department is committed to the idea that logic and critical thinking are the core of all academic disciplines. The department engages in the critical study of the intellectual and creative underpinnings of the liberal arts curriculum. The humanities reflect on and interact with those creative enterprises that make us most human: art, architecture, music, and poetry. Philosophy engages theoretical and practical questions about reality and human experience in the life-long pursuit of truth and understanding.

In keeping with the democratic ideal of an educated citizenship, the department aims to provide the highest quality educational experience to prepare students for an increasingly complex and intellectually demanding society. The free exploration of ideas will expose students to a variety of perspectives on important issues; the critical examination of those ideas will impart the skills of reflection and decision-making.

The department seeks to develop in its students a set of skills and knowledge that is useful for all forms of reflection and investigation, relevant and transferable to myriad professions, and promoting of lifelong learning and inter-cultural awareness. The department focuses on the following: developing the practical skills of critical analysis and problem solving, and the reflection on one's own ethics, values and beliefs; developing the skills of communication, through effective speech and clear, rigorous writing; imparting a wide variety of content, including knowledge of the history of philosophy and the humanities, an appreciation and understanding of human diversity, and a connection of these topics to practical life; imparting the basic values of the liberal arts, including self-reflectiveness, intellectual curiosity, and creativity.

Philosophy & Humanities

- **Department Chair:** Leslie Simon
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- **Associate Chair:** Shannon Mussett
- Office: CB 507f
- Telephone: 801-863-6264
- **Director of Humanities:** Kim Abunuwara
- Office: CB 311e
- Telephone: 801-863-6266
- **Advisor:** Kindra Amott
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- Telephone: 801-863-6717
- **Philosophy Front Office:**
- Office: CB 507
- Telephone: 801-863-8352

DEPARTMENT CHAIR

HANEWICZ, Wayne B. *Professor*

DEPARTMENT CHAIR

LAMARCHE, Pierre *Professor*

FACULTY

BIRCH, Brian *Professor*
BRETZ, Thomas Helmut *Assistant Professor*
CALDIERO, Alex *Senior Artist in Residence*
ENGLEHARDT, Elaine Eliason *Distinguished Professor*
GUERRERO, Laura P. *Assistant Professor*
HANEWICZ, Wayne B. *Professor*
HANSEN, Jorgen *Lecturer*
KARL, Alexandra *Lecturer*
LAMARCHE, Pierre *Professor*
LIANG, Samuel Y. *Associate Professor*
MINCH, Michael L. *Professor*
MIZELL, Karen L. *Professor*
MUSSETT, Shannon M. *Professor*
NGUYEN, Christopher *Assistant Professor*
POTTER, R. Dennis *Associate Professor*
SAWYER, Michaela *Associate Professor*
SHAW, Michael M. *Professor*
SIMON, Leslie S. *Associate Professor*
STENCIL, Eric *Assistant Professor*
WEIGEL, Christine M. *Professor*

Course Descriptions

Greek.....	716
Humanities.....	726
Latin.....	742
Philosophy.....	777
Religious Studies.....	801

Degrees & Programs

Humanities, A.A.

Requirements

The discipline of humanities is the study of human intellectual and artistic creativity and what the resulting artistic forms reveal about the human experience. This field of study draws on other disciplines such as history, fine arts, literature, intellectual history, music, foreign languages, theology, and philosophy to see how the several artistic forms communicate and work together to give an in-depth record of the meaning of human life in the past and present. The discipline also emphasizes the relationship between the arts, culture, and society. A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies.

Total Program Credits: 62

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3

Philosophy and Humanities

	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
or	PHIL 205H	Ethics and Values (3.0)	
or	PHIL 205G	Ethics and Values (3.0)	
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			19 Credits
Complete one of the following:			3
	HUM 1010	Humanities Through the Arts (3.0)	
or	HUM 101H	Humanities Through the Arts (3.0)	
or	HUM 101G	Humanities Through the Arts (3.0)	
Complete one of the following:			3
	HUM 2010	World History Through the Arts I (3.0)	
or	HUM 201G	World History Through the Arts I (3.0)	
or	HUM 201H	World History Through the Arts I (3.0)	
	HUM 203G	Art Form Focus I (3.0)	
Complete one of the following:			3
	HUM 2020	World History Through the Arts II (3.0)	
or	HUM 202G	World History Through the Arts II (3.0)	
or	HUM 202H	World History Through the Arts II (3.0)	
	HUM 204G	Art Form Focus II (3.0)	
Complete 6 credits of the following:			6
	HUM 2100	Adventures of Ideas Through 1500 (3.0)	
or	HUM 210H	Adventures of Ideas Through 1500 (3.0)	
	HUM 2200	Adventures of Ideas After 1500 (3.0)	

or	HUM 220H	Adventures of Ideas After 1500 (3.0)	
	HUM 320R	Topics in Humanities (1.0)	
	HUM 325R	Area Studies in Humanities (3.0)	
	HUM 330R	Period Studies in Humanities (3.0)	
Complete 4 credits from the following: AVC, DANC, HUM, MUSC, PHIL, THEA (1000 level or higher)			4
Elective Requirements:			8 Credits
	Same Foreign Language		8

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Humanities, A.A.

Careers

Careers:
A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies. A list of career ideas might include: technical writing, education and outreach, public relations, internal communications, fund-raising, policy research and analysis, program planning, administration, information management, human resources, libraries, museums, and more.
Here are a few articles to help you think about your options, as well:
1) 11 Reasons to Major in the Humanities
2) The Value of the Humanities
3) Types of Jobs offered to those with Humanities Degrees

Related Careers

- Postsecondary Teachers, All Other

Humanities, A.S.

Requirements

The discipline of humanities is the study of human intellectual and artistic creativity and what the resulting artistic forms reveal about the human experience. This field of study draws on other disciplines such as history, fine arts, literature, intellectual history, music, foreign languages, theology, and philosophy to see how the several artistic forms communicate and work together to give an in-depth record of the meaning of human life in the past and present. The discipline also emphasizes the relationship between the arts, culture, and society. A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies.

Total Program Credits: 62

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3

	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
or	PHIL 205G	Ethics and Values (3.0)	
or	PHIL 205H	Ethics and Values (3.0)	
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			21 Credits
Complete One of the Following:			3
	HUM 1010	Humanities Through the Arts (3.0)	
or	HUM 101G	Humanities Through the Arts (3.0)	
or	HUM 101H	Humanities Through the Arts (3.0)	
Complete one of the following:			3
	HUM 2010	World History Through the Arts I (3.0)	
or	HUM 201G	World History Through the Arts I (3.0)	
or	HUM 201H	World History Through the Arts I (3.0)	
	HUM 203G	Art Form Focus I (3.0)	
Complete one of the following:			3
	HUM 2020	World History Through the Arts II (3.0)	
or	HUM 202G	World History Through the Arts II (3.0)	
or	HUM 202H	World History Through the Arts II (3.0)	
	HUM 204G	Art Form Focus II (3.0)	
Complete 6 credits of the following:			6

	HUM 2100	Adventures of Ideas Through 1500 (3.0)	
or	HUM 210H	Adventures of Ideas Through 1500 (3.0)	
	HUM 2200	Adventures of Ideas After 1500 (3.0)	
or	HUM 220H	Adventures of Ideas After 1500 (3.0)	
	HUM 320R	Topics in Humanities (1.0)	
	HUM 325R	Area Studies in Humanities (3.0)	
	HUM 330R	Period Studies in Humanities (3.0)	
Complete 6 additional credits from the following: AVC, DANC, ENGL, HUM, MUSC, PHIL, THEA (1000 level or higher)			6
Elective Requirements:			6 Credits
	1000 level or higher		6

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Humanities, A.S.

Careers

Careers:
A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies. A list of career ideas might include: technical writing, education and outreach, public relations, internal communications, fund-raising, policy research and analysis, program planning, administration, information management, human resources, libraries, museums, and more.
Here are a few articles to help you think about your options, as well:
1) 11 Reasons to Major in the Humanities
2) The Value of the Humanities
3) Types of Jobs offered to those with Humanities Degrees

Related Careers

- Postsecondary Teachers, All Other

Philosophy, A.A.

Requirements

Interest in studying philosophy begins with the desire to engage life's greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the "ultimate 'transferable work skill'" insofar as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don't hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations." The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today's competitive working environments.

Philosophy and Humanities

Total Program Credits: 60

General Education Requirements:		35 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
Complete one of the following:		3
	MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)
	STAT 1045	Introduction to Statistics with Algebra (5.0)
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)
	MATH 1055	College Algebra with Preliminaries (5.0)
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)
	HIST 1740	US Economic History (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values 3
	HLTH 1100	Personal Health and Wellness 2
or	PES 1097	Fitness for Life (2.0)
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities	3
	Fine Arts	3
	Social/Behavioral Science	3
Discipline Core Requirements:		16 Credits
Complete the following:		
	PHIL 1000	Introduction to Philosophy 3
	PHIL 120R	Philosophy Forum 1
	PHIL 1610	Introduction to Western Religions 3
or	PHIL 1620	Introduction to Eastern Religions (3.0)
	PHIL 2000	Formal Logic I 3
	PHIL 2110	Ancient Greek Philosophy 3
	PHIL 2150	Early Modern Philosophy 3
Elective Requirements:		9 Credits

Same Foreign Language	8
Any course 1000 level or higher	1

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Philosophy, A.A.

Careers

Careers:
Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:
Law
Advertising
Higher Education
Computer Sciences
Human Resources
Journalism
Research Management
Medicine
Ethics Officers
Public Policy
Government
Public Relations
Publishing
Religion & Ministry
Non-profit/NGOs
Grant Writing/Fundraising
Finance

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Philosophy, A.S.

Requirements

Interest in studying philosophy begins with the desire to engage life's greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the "ultimate 'transferable work skill'" insofar as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don't hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations." The study of philosophy, one of the oldest and most

rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today's competitive working environments.

Total Program Credits: 60

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:		16 Credits	
Complete the following:			
	PHIL 1000	Introduction to Philosophy	3
	PHIL 120R	Philosophy Forum	1
	PHIL 1610	Introduction to Western Religions	3
or	PHIL 1620	Introduction to Eastern Religions (3.0)	
	PHIL 2000	Formal Logic I	3
	PHIL 2110	Ancient Greek Philosophy	3

PHIL 2150	Early Modern Philosophy	3
Elective Requirements:		9 Credits
1000 level or higher		9

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements

Philosophy, A.S.

Careers

<p>Careers:</p> <p>Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:</p> <p>Law Advertising Higher Education Computer Sciences Human Resources Journalism Research Management Medicine Ethics Officers Public Policy Government Public Relations Publishing Religion & Ministry Non-profit/NGOs Grant Writing/Fundraising Finance</p>

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Ethics, Certificate of Proficiency

Requirements

A student in the Ethics program is offered an innovative approach in correlating various disciplines with structured ethical research. The program offers students opportunities to enhance their capacity to enter their chosen professions, careers, and vocations as ethical leaders. Students will examine real world ethical issues in the context of various disciplines, a valuable credential for employment and further education.

UVU has had a vested interest in Interdisciplinary Ethics since the 1980s, offering prestigious programs such as Ethics Across the Curriculum and hosting the only Ethics Center in the USHE system. The undergraduate Ethics curriculum and the Center for the Study of Ethics have received repeated national recognitions for their innovative and influential programs, conferences, events, symposia, and lecture series that educate students and the community about contemporary ethical issues.

Total Program Credits: 21

Discipline Core Requirements:		9 Credits	
	PHIL 2050	Ethics and Values	3
	PHIL 3550	Moral Philosophy	3

Philosophy and Humanities

	PHIL 481R	Internship	3
Elective Requirements:			12 Credits
Complete 12 credits from the following:			12
	PHIL 130R	Ethics Forum (1.0) (Limited to a maximum of 3 credits)	
	PHIL 3010	Media Ethics (3.0)	
or	COMM 3000	Media Ethics (3.0)	
	PHIL 3450	Philosophy of Childhood (3.0)	
	PHIL 3460	The Ethics of Human/Animal Relationships (3.0)	
	PHIL 3510	Business and Professional Ethics (3.0)	
	PHIL 3520	Bioethics (3.0)	
	PHIL 3530	Environmental Ethics (3.0)	
	PHIL 3540	Christian Ethics (3.0)	
	PHIL 357R	Moral Reasoning Through Case Studies Ethics Bowl (3.0) (Limited to a maximum of 3 credits with approval of instructor and department chair)	
	PHIL 3700	Social and Political Philosophy (3.0)	
	PHIL 3710	Philosophy of Law (3.0)	
	PHIL 450R	Interdisciplinary Senior Ethics Seminar (3.0)	
	PHIL 451R	Ethical Theory Seminar (3.0)	
	PHIL 490R	Independent Study (1.0) (Limited to a maximum of 3 credits)	
	ASL 4370	Ethics for Interpreters (3.0)	
	BIOL 4260	Ethical Issues in Biology (2.0)	
	CS 305G	Global Social and Ethical Issues in Computing (3.0)	
	PJST 3000	Introduction to Peace and Justice Studies (3.0)	
	AVSC 410G	Global Ethical and Professional Issues in Aviation (3.0)	
	ESFF 2100	Introduction to Emergency Services Leadership (3.0)	
	CJ 4200	Ethical Issues in Criminal Justice (3.0)	
	POLS 3300	Introduction to Public Administration (3.0)	
	ESMG 4650	Emergency Services Capstone (3.0)	
	other advisor-approved course		

Graduation Requirements:

1. Completion of a minimum of 21 credits.
2. Overall grade point average of 2.0 or above.
3. Residency hours -- Minimum of 6 credits required through course attendance at UVU.

Ethics, Certificate of Proficiency Careers

Careers:
The Ethics Minor and Certificate programs are designed to enhance and prepare students from all disciplines to deeply engage ethical questions. The courses are an ideal foundation for any student considering ongoing work or education in the fields of business, law, politics, education, public policy, medicine, clinical research, social work, security, criminal justice, and more.

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Ethics, Minor

Requirements

A student in the Ethics program is offered an innovative approach in correlating various disciplines with structured ethical research. The program offers students opportunities to enhance their capacity to enter their chosen professions, careers, and vocations as ethical leaders. Students will examine real world ethical issues in the context of various disciplines, a valuable credential for employment and further education.

UVU has had a vested interest in Interdisciplinary Ethics since the 1980s, offering prestigious programs such as Ethics Across the Curriculum and hosting the only Ethics Center in the USHE system. The undergraduate Ethics curriculum and the Center for the Study of Ethics have received repeated national recognitions for their innovative and influential programs, conferences, events, symposia, and lecture series that educate students and the community about contemporary ethical issues.

Total Program Credits: 18

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			6 Credits
	PHIL 3550	Moral Philosophy	3
	PHIL 481R	Internship	3
Elective Requirements:			12 Credits
Complete 12 credits from the following:			12
	PHIL 130R	Ethics Forum (1.0)(Limited to a maximum of 3 credits)	
	PHIL 3010	Media Ethics (3.0)	
or	COMM 3000	Media Ethics (3.0)	
	PHIL 3450	Philosophy of Childhood (3.0)	
	PHIL 3460	The Ethics of Human/Animal Relationships (3.0)	
	PHIL 3510	Business and Professional Ethics (3.0)	
	PHIL 3520	Bioethics (3.0)	
	PHIL 3530	Environmental Ethics (3.0)	
	PHIL 3540	Christian Ethics (3.0)	
	PHIL 357R	Moral Reasoning Through Case Studies: Ethics Bowl (3.0)	
	PHIL 3700	Social and Political Philosophy (3.0)	
	PHIL 3710	Philosophy of Law (3.0)	
	PHIL 450R	Interdisciplinary Senior Ethics Seminar (3.0)	
	PHIL 451R	Ethical Theory Seminar (3.0)	
	PHIL 490R	Independent Study (1.0)	
	ASL 4370	Ethics for Interpreters (3.0)	
	BIOL 4260	Ethical Issues in Biology (2.0)	
	CS 305G	Global Social and Ethical Issues in Computing (3.0)	
	PJST 3000	Introduction to Peace and Justice Studies (3.0)	
	AVSC 410G	Global Ethical and Professional Issues in Aviation (3.0)	
	ESFF 2100	Introduction to Emergency Services Leadership (3.0)	

	CJ 4200	Ethical Issues in Criminal Justice (3.0)	
	POLS 3300	Introduction to Public Administration (3.0)	
	ESMG 4650	Emergency Services Capstone (3.0)	
	other advisor-approved course		

Ethics, Minor Careers

Careers:
The Ethics Minor and Certificate programs are designed to enhance and prepare students from all disciplines to deeply engage ethical questions. The courses are an ideal foundation for any student considering ongoing work or education in the fields of business, law, politics, education, public policy, medicine, clinical research, social work, security, criminal justice, and more.

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Humanities, Minor Requirements

The discipline of humanities is the study of human intellectual and artistic creativity and what the resulting artistic forms reveal about the human experience. This field of study draws on other disciplines such as history, fine arts, literature, intellectual history, music, foreign languages, theology, and philosophy to see how the several artistic forms communicate and work together to give an in-depth record of the meaning of human life in the past and present. The discipline also emphasizes the relationship between the arts, culture, and society. A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies.

Total Program Credits: 18

Matriculation Requirements:		
1. Overall grade point average of a 2.0 (C) or better		
2. Admitted to a bachelor degree program at UVU		
Discipline Core Requirements:		3 Credits
	HUM 3500	Approaches to Humanities 3
Elective Requirements:		15 Credits
Complete 3 credits from the following:		3
	HUM 2010	World History Through the Arts I (3.0)
or	HUM 201G	World History Through the Arts I (3.0)
or	HUM 201H	World History Through the Arts I (3.0)
	HUM 203G	Art Form Focus I (3.0)
	HUM 2100	Adventures of Ideas Through 1500 (3.0)
or	HUM 210H	Adventures of Ideas Through 1500 (3.0)
Complete 3 credits from the following:		3
	HUM 2020	World History Through the Arts II (3.0)
or	HUM 202G	World History Through the Arts II (3.0)
or	HUM 202H	World History Through the Arts II (3.0)
	HUM 204G	Art Form Focus II (3.0)
	HUM 2200	Adventures of Ideas After 1500 (3.0)
or	HUM 220H	Adventures of Ideas After 1500 (3.0)
Complete 9 credits from the following:		9
	HUM 1010	Humanities Through the Arts (3.0)
or	HUM 101G	Humanities Through the Arts (3.0)

or	HUM 101H	Humanities Through the Arts (3.0)	
	HUM 320R	Topics in Humanities (1.0)	
	HUM 325R	Area Studies in Humanities (3.0)	
	HUM 330R	Period Studies in Humanities (3.0)	
	HUM 3800	Aesthetics (3.0)	
	HUM 400R	Humanism and Posthumanism (3.0)	
	HUM 401R	Forms and Genres Across the Arts (3.0)	
	HUM 414R	Advanced Topics in Humanities (3.0)	

Graduation Requirements:

1. Complete all Humanities courses with a grade of 2.0 (C) or better.

Humanities, Minor Careers

Careers:
A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies. A list of career ideas might include: technical writing, education and outreach, public relations, internal communications, fund-raising, policy research and analysis, program planning, administration, information management, human resources, libraries, museums, and more.
Here are a few articles to help you think about your options, as well:
1) 11 Reasons to Major in the Humanities
2) The Value of the Humanities
3) Types of Jobs offered to those with Humanities Degrees

Related Careers

- Postsecondary Teachers, All Other

Philosophy, Minor Requirements

Interest in studying philosophy begins with the desire to engage life's greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the "ultimate 'transferable work skill'" insofar as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don't hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations." The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today's competitive working environments.

Total Program Credits: 18

Matriculation Requirements:		
1. Enrollment at Utah Valley University		
2. Overall grade point average of a 2.0 (C) or better.		
3. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		18 Credits

Philosophy and Humanities

Complete one of the following:	3
PHIL 2110	Ancient Greek Philosophy (3.0)
or PHIL 2150	Early Modern Philosophy (3.0)
Complete 15 additional credit hours of philosophy courses (9 credit hours must be 3000 level or above; no more than 6 credit hours may be at the 1000 level; Philosophy 2050 does not count for this requirement.)	15

Philosophy, Minor Careers

Careers:
Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:
<ul style="list-style-type: none"> Law Advertising Higher Education Computer Sciences Human Resources Journalism Research Management Medicine Ethics Officers Public Policy Government Public Relations Publishing Religion & Ministry Non-profit/NGOs Grant Writing/Fundraising Finance

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Humanities, B.A.

Requirements

The discipline of humanities is the study of human intellectual and artistic creativity and what the resulting artistic forms reveal about the human experience. This field of study draws on other disciplines such as history, fine arts, literature, intellectual history, music, foreign languages, theology, and philosophy to see how the several artistic forms communicate and work together to give an in-depth record of the meaning of human life in the past and present. The discipline also emphasizes the relationship between the arts, culture, and society. A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies.

Total Program Credits: 120

General Education Requirements:	35 Credits	
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:	3	

MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts) (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:	3	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution (HUM 1010, HUM 101G, or HUM 101H Recommended)		3
Fine Arts Distribution		3
Social/Behavioral Science		3
Discipline Core Requirements:		48 Credits
Complete one of the following:		
HUM 2010	World History Through the Arts I	3
or HUM 201G	World History Through the Arts I (3.0)	
or HUM 201H	World History Through the Arts I (3.0)	
HUM 2020	World History Through the Arts II	3
or HUM 202G	World History Through the Arts II (3.0)	
or HUM 202H	World History Through the Arts II (3.0)	
HUM 2100	Adventures of Ideas Through 1500	3
or HUM 210H	Adventures of Ideas Through 1500 (3.0)	
HUM 2200	Adventures of Ideas After 1500	3
or HUM 220H	Adventures of Ideas After 1500 (3.0)	
HUM 3500	Approaches to Humanities	3
HUM 4910	Humanities Capstone	3
Complete 6 credits of the following:		6
HUM 120R	Humanities Forum (may be repeated for up to 6 credits) (3.0)	

	HUM 203G	Art Form Focus I (3.0)	
	HUM 204G	Art Form Focus II (3.0)	
Complete 15 credits of the following:			15
	HUM 320R	Topics in Humanities (may be repeated for no more than 6 credits) (1.0)	
	HUM 325R	Area Studies in Humanities (may be repeated for up to 6 credits) (3.0)	
	HUM 330R	Period Studies in Humanities (may be repeated for up to 6 credits) (3.0)	
	HUM 3800	Aesthetics (3.0)	
Complete 9 credits of the following:			9
	HUM 400R	Humanism and Posthumanism (may be repeated for up to 6 credits) (3.0)	
	HUM 401R	Forms and Genres Across the Arts (may be repeated for up to 6 credits) (3.0)	
	HUM 414R	Advanced Topics in Humanities (may be repeated for up to 6 credits) (3.0)	
Elective Requirements:			37 Credits
	One Foreign Language		16
	Any course 1000 or higher (No more than 6 total credit hours from HUM 281R and HUM 481R) 10 credits must be upper-division.		21

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. *
5. Completion of 40 hours or upper-division credit.
6. Completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G levels or transferred equivalents. **
7. Successful completion of at least one Global/Intercultural course.

Footnote:
* It is highly recommended to fulfill the English Composition requirements during the first semesters of college.
** The Greek and Latin courses offered through the Department of Philosophy and Humanities do fulfill this requirement.

**Humanities, B.A.
Careers**

Careers:
A background in humanities is helpful in preparing for employment in education, business, government, civil and foreign service, tourism, and in preparation for graduate studies. A list of career ideas might include: technical writing, education and outreach, public relations, internal communications, fund-raising, policy research and analysis, program planning, administration, information management, human resources, libraries, museums, and more.
Here are a few articles to help you think about your options, as well:
1) 11 Reasons to Major in the Humanities
2) The Value of the Humanities
3) Types of Jobs offered to those with Humanities Degrees

Related Careers

- Postsecondary Teachers, All Other

Philosophy, B.A.

Requirements

Interest in studying philosophy begins with the desire to engage life's greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the "ultimate 'transferable work skill'" insofar as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don't hire majors. They hire individuals with potential to succeed over the long term and add value to their companies or organizations." The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today's competitive working environments.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3

Philosophy and Humanities

Physical Science	3
Additional Biology or Physical Science	3
Humanities Distribution	3
Fine Arts Distribution	3
Social/Behavioral Science	3
Discipline Core Requirements:	37 Credits
Complete the following:	
PHIL 120R Philosophy Forum	1
PHIL 2000 Formal Logic I	3
PHIL 2110 Ancient Greek Philosophy	3
PHIL 2150 Early Modern Philosophy	3
PHIL 4910 Philosophy Research Capstone	3
Ethics Set (complete 3 credits from the following):	3
PHIL 3510 Business and Professional Ethics (3.0)	
PHIL 3520 Bioethics (3.0)	
PHIL 3530 Environmental Ethics (3.0)	
PHIL 3540 Christian Ethics (3.0)	
PHIL 3550 Moral Philosophy (3.0)	
PHIL 3700 Social and Political Philosophy (3.0)	
PHIL 450R Interdisciplinary Senior Ethics Seminar (3.0)	
PHIL 451R Ethical Theory Seminar (3.0)	
History Set (complete 3 credits from the following):	3
PHIL 4140 History of Analytic Philosophy (3.0)	
PHIL 4150 History of Continental Philosophy (3.0)	
Topic Set I (complete 3 credits, not previously completed, from the following):	3
PHIL 3000 Formal Logic II (3.0)	
PHIL 3200 Metaphysics (3.0)	
PHIL 3300 Epistemology (3.0)	
PHIL 3400 Philosophy of Science (3.0)	
PHIL 4140 History of Analytic Philosophy (3.0)	
PHIL 4470 Philosophy of Mind (3.0)	
PHIL 4480 Philosophy of Language (3.0)	
Topic Set II (complete 3 credits, not previously completed, from the following):	3
PHIL 3470 Pragmatism and American Philosophy (3.0)	
PHIL 3750 Marxist Philosophy (3.0)	
PHIL 3810 Existentialism and Phenomenology (3.0)	
PHIL 386R Topics in Ancient Philosophy (3.0)	
PHIL 4130 Nineteenth Century European Philosophy (3.0)	
PHIL 4150 History of Continental Philosophy (3.0)	
Complete 12 additional credits of Philosophy course work, at least 9 of which must be upper-division (excluding those courses taken to fulfill categories listed above).	12
Elective Requirements:	48 Credits
One Foreign Language	16
Any course 1000 or higher; 16 credits must be upper-division	32

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Completion of 40 hours or upper-division credit.
6. For the BA degree, completion of 16 credit hours of course work from one language to include the 1010, 1020, 2010, and 202G/2020 levels or transferred equivalents.
7. Successful completion of at least one Global/Intercultural course.

Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 290R, PHIL 295R, PHIL 400R, PHIL 492R, PHIL 450R, and PHIL 451R can be repeated for credit.

Philosophy, B.A. Careers

Careers:
Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:
Law
Advertising
Higher Education
Computer Sciences
Human Resources
Journalism
Research Management
Medicine
Ethics Officers
Public Policy
Government
Public Relations
Publishing
Religion & Ministry
Non-profit/NGOs
Grant Writing/Fundraising
Finance

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Philosophy, B.S. Requirements

Interest in studying philosophy begins with the desire to engage life's greatest questions: finding the meaning of human existence, making sense of reality and our place in the cosmos, giving systematic form to our ethical and political intuitions, explaining the history of human ideas, and other equally significant problems. Often students wonder how the study of philosophy can provide the foundation for successful and meaningful employment. Contrary to popular belief, a philosophy major is one of the best preparations possible for careers in a large number of different areas. An article in the London Times rightly called philosophy the "ultimate transferable work skill" insofar as it prepares students for a wide array of practical services. As a group, philosophy majors consistently score at or near the top on standardized tests, gain employment on graduation at higher than average rates, rank highly in median mid-career salary, and enjoy a well-earned reputation for rigorous thinking. In fact, the Association of American Colleges and Universities tells students, "[y]our specific choice of major matters far less than the knowledge and skills you gain through all your studies and experiences in college. In terms of jobs, employers don't hire majors. They hire individuals with potential to succeed over the long term and add value to

their companies or organizations." The study of philosophy, one of the oldest and most rigorous disciplines, provides students with critical thinking, writing, and arguing skills necessary to succeed in today's competitive working environments.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
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	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:		37 Credits	
Complete the following:			
	PHIL 120R	Philosophy Forum	1
	PHIL 2000	Formal Logic I	3
	PHIL 2110	Ancient Greek Philosophy	3
	PHIL 2150	Early Modern Philosophy	3
	PHIL 4910	Philosophy Research Capstone	3

Ethics Set (complete 3 credits from the following):		3	
	PHIL 3510	Business and Professional Ethics (3.0)	
	PHIL 3520	Bioethics (3.0)	
	PHIL 3530	Environmental Ethics (3.0)	
	PHIL 3540	Christian Ethics (3.0)	
	PHIL 3550	Moral Philosophy (3.0)	
	PHIL 3700	Social and Political Philosophy (3.0)	
	PHIL 450R	Interdisciplinary Senior Ethics Seminar (3.0)	
	PHIL 451R	Ethical Theory Seminar (3.0)	
History Set (complete 3 credits from the following):		3	
	PHIL 4140	History of Analytic Philosophy (3.0)	
	PHIL 4150	History of Continental Philosophy (3.0)	
Topics Set I (complete 3 credits, not previously completed, from the following)		3	
	PHIL 3000	Formal Logic II (3.0)	
	PHIL 3200	Metaphysics (3.0)	
	PHIL 3300	Epistemology (3.0)	
	PHIL 3400	Philosophy of Science (3.0)	
	PHIL 4140	History of Analytic Philosophy (3.0)	
	PHIL 4470	Philosophy of Mind (3.0)	
	PHIL 4480	Philosophy of Language (3.0)	
Topic Set II (complete 3 credits, not previously completed, from the following):		3	
	PHIL 3470	Pragmatism and American Philosophy (3.0)	
	PHIL 3750	Marxist Philosophy (3.0)	
	PHIL 3810	Existentialism and Phenomenology (3.0)	
	PHIL 386R	Topics in Ancient Philosophy (3.0)	
	PHIL 4130	Nineteenth Century European Philosophy (3.0)	
	PHIL 4150	History of Continental Philosophy (3.0)	
Complete 12 additional credits of Philosophy course work, at least 9 of which must be upper-division (excluding those courses taken to fulfill categories listed above).		12	
Elective Requirements:		48 Credits	
	Any course 1000 or higher; 16 credits must be upper-division	48	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
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4. Completion of GE and specified departmental requirements.
5. Completion of 40 hours of upper-division credit.
6. Successful completion of at least one Global/Intercultural course.

Note: It is recommended that students planning on earning a Baccalaureate Degree in Philosophy take a foreign language, preferably French or German, in their Freshman and Sophomore academic years. PHIL 120R, PHIL 290R, PHIL 295R, PHIL 400R, PHIL 492R, PHIL 450R, and PHIL 451R can be repeated for credit.

Philosophy, B.S. Careers

Careers:

Philosophy and Humanities

Students pursuing advanced degrees in Philosophy, including a PhD, will likely be looking for tenure-track teaching positions at colleges and universities. Most Philosophy students will go on to graduate school, but not just in Philosophy. Philosophy majors, for example, are the highest average scoring group on the LSAT, GMAT, and GRE. Studying Philosophy develops high-demand skills, like complex critical thinking and problem solving. Therefore, Philosophy graduates can also consider themselves well-prepared for a long list of careers and fields, such as:

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Advertising
Higher Education
Computer Sciences
Human Resources
Journalism
Research Management
Medicine
Ethics Officers
Public Policy
Government
Public Relations
Publishing
Religion & Ministry
Non-profit/NGOs
Grant Writing/Fundraising
Finance

Related Careers

- Philosophy and Religion Teachers, Postsecondary

Physics

Name:	Department of Physics
Location:	PS 207
Telephone:	801-863-6964
Email:	BPacchiega@uvu.edu
Web Address:	www.uvu.edu/physics/
Chair:	Phil Matheson
Chair UVU Email:	phil.matheson@uvu.edu

Mission Statement

The whole universe is a fair topic for study in physics. No facet is too small or too big to be considered. Physics is the assembly and application of the rational rules by which nature operates. Every action is played out according to its rules. Physicists seek to discover and learn these rules and often apply them in solving problems in other scientific fields such as chemistry, biology and geology, engineering and in many areas of common human experience. Physicists are valued for their ability to rationally approach complex problems and to construct practical solutions. They find fulfilling and satisfying employment not only in research and teaching, but in business, industry, consulting and government. Typically half of all BS Physics degree recipients enter the work force immediately in such occupations as those just listed. The rest continue on to graduate school, not only in physics, but in engineering, computer science, medicine and even law or business programs.

Physicists and those trained in physics have been extraordinarily successful in the development of modern industries, including seminal innovations in electronics, optics, computer science, transportation, and in energy industries.

Physics at UVU is a very personal endeavor. The small size of our department means that a physics major will benefit by working closely with faculty and fellow students. The faculty will often act as personal tutors and mentors, providing opportunities in research and problem solving that may be more difficult to obtain in a larger department. Access to computing facilities and many types of research equipment is available. Our program seeks to match our students' interests and meet the requirements of future employers.

Our department also has exceptional astronomy faculty and they have been very successful in preparing students for graduate work in astronomy and astrophysics.

In addition to a sound understanding of basic physics and problem solving, our students gain skills in:

Computational methods, numerical analysis and computer programming
Instrumentation, data collection and analysis
Electronics
Writing and presentation skills

Physics

- **Advisor:** Jeff Peters
- **Office:** PS 201g
- **Telephone:** 801-863-8616
- **Email:** Jeffrey.Peters@uvu.edu
- **Administrative Support:** Brandi Pacchiega
- **Telephone:** 801-863-6964
- **Email:** BPacchiega@uvu.edu
- **Mail Stop:** 179
-

DEPARTMENT CHAIR

MATHESON, Philip *Professor*

FACULTY

ANDERSEN, Bonnie *Associate Professor*

DRAPER, Christian *Lecturer*

HAISCH, Karl Jr. *Professor*

HART, Vern *Assistant Professor*

JENSEN, Joseph *Professor*

MATHESON, Philip *Professor*

MILLS, Paul S. *Professor*

NIELSEN, Kim *Assistant Professor*

PERKINS, Raymond *Assistant Professor*

POWELL, John *Lecturer*

SLEZAK, Cyril B. *Associate Professor*

WASSERBAECH, Steven R. *Professor*

WEBER, Paul *Associate Professor*

Course Descriptions

Astronomy.....	589
Physical Science.....	782
Physics.....	782

Degrees & Programs

Physics, Minor

Requirements

Must be admitted to a bachelor degree program at UVU. A minor in physics represents a substantial investment in mastering the basics of physics and gaining suitable problem solving skills that may then be applied to other disciplines. The minor requires 20 credit hours of physics credit.

Total Program Credits: 20

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			20 Credits
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2215	Physics for Scientists and Engineers I Lab	1
	PHYS 2220	Physics for Scientists and Engineers II	4
	PHYS 2225	Physics for Scientists and Engineers II Lab	1
	PHYS 3110	Modern Physics I	3
	PHYS 3115	Introduction to Experimental Physics I	2
Complete a minimum of 5 credits from the following courses:			5
	ASTR 3050	Astrophysics I (3.0)	
	ASTR 3060	Astrophysics I(3.0)	
	PHYS 2500	Elementary Fluids and Thermal Physics (3.0)	
	PHYS 2800	Introduction to Materials Physics (3.0)	
	PHYS 3120	Modern Physics II (3.0)	
	PHYS 3125	Introduction to Experimental Physics II (2.0)	
	PHYS 3230	Principles of Electronics for the Physical Sciences (3.0)	
	PHYS 3300	Mathematical Physics (3.0)	
	PHYS 3310	Advanced Mathematical Physics (3.0)	

Physics

	PHYS 3400	Classical Mechanics (3.0)	
	PHYS 3500	Thermodynamics (3.0)	
	PHYS 3800	Energy use on Earth (3.0)	
	PHYS 4210	Advanced Experimental Techniques (3.0)	
	PHYS 4250	Nuclear Physics (3.0)	
	PHYS 4300	Computational Physics (3.0)	
	PHYS 4410	Electrostatics and Magnetism (3.0)	
	PHYS 4420	Electrodynamics (3.0)	
	PHYS 4510	Quantum Mechanics I (3.0)	
	PHYS 4520	Quantum Mechanics II (3.0)	
	PHYS 4600	Optics (3.0)	
	PHYS 4700	Acoustics (3.0)	
	PHYS 4800	Solid State Physics (3.0)	
	PHYS 490R	Seminar (0.5)	
	METO 3100	Climate and the Earth System (3.0)	

Graduation Requirements:

1. A minimum grade of "C" must be earned in all minor courses.

Physics, Minor Careers

Careers:
A minor in physics can contribute to nearly any career, from scientist to teacher, from businessman to artist. A minor in physics establishes a foundation the principles by which nature functions and gives the student skills in rational problem solving in a manner not reproduced in other major programs.

Related Careers

- Natural Sciences Managers
- Physicists
- Physics Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Physics Education, B.S.

Requirements

Prepares the student to teach high school physics and AP physics. The program allows for those interested to supplement their studies with extra courses in physics or other science through elective upper division credit. A seminar course provides the student with exposure to careers in physics.

Total Program Credits: 120

Matriculation Requirements:
<ol style="list-style-type: none"> 1. Students are admitted directly to the Baccalaureate degree program in Physics Education upon acceptance to the Secondary Education Program. 2. Students must obtain the departmental Advisor's signature on an approved program plan prior to enrollment in their second semester of study.
Secondary Education Requirements:
<ol style="list-style-type: none"> 1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement. 2. GPA of 3.0 or higher with no grade lower than a C in content area courses. 3. Completion of all General Education requirements and the majority of content area courses.

4. Pass group interview directed by the Secondary Teacher Education Department.		
5. Pass LiveScan Criminal Background Check.		
General Education Requirements:		39 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2020	Intermediate Writing--Science and Technology	3
MATH 1210	Calculus I	5
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
CHEM 1210	Principles of Chemistry I (To be taken with CHEM 1215)	4
CHEM 1220	Principles of Chemistry II (To be taken with CHEM 1225)	4
Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		73 Credits
CHEM 1215	Principles of Chemistry I Laboratory (To be taken with CHEM 1210)	1
CHEM 1225	Principles of Chemistry II Laboratory (To be taken with CHEM 1220)	1
HIST 4320	History of Scientific Thought	3
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
PHYS 2210	Physics for Scientists and Engineers I	4
PHYS 2215	Physics for Scientists and Engineers I Lab	1
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
PHYS 3010	Physics Experiments for Secondary Education	1
PHYS 3110	Modern Physics I	3
PHYS 3115	Introduction to Experimental Physics I (2.0)	2
PHYS 4200	Teaching Methods in Science	3
Education Courses:		
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2

	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 4550	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	10
	EDSP 3400	Exceptional Students	2
Complete the following set:			9
	PHYS 490R	Seminar (0.5)*	
Complete 8 credits from the following:			
	ASTR 3050	Astrophysics I (3.0)	
	ASTR 3060	Astrophysics II (3.0)	
	PHYS 2500	Elementary Fluids and Thermal Physics (3.0)	
	PHYS 3120	Modern Physics II (3.0)	
	PHYS 3125	Introduction to Experimental Physics II (2.0)	
	PHYS 3230	Principles of Electronics for the Physical Sciences (3.0)	
	PHYS 3300	Mathematical Physics (3.0)	
	PHYS 3400	Classical Mechanics (3.0)	
	PHYS 3500	Thermodynamics (3.0)	
	PHYS 3800	Energy use on Earth (3.0)	
	PHYS 4700	Acoustics (3.0)	
Elective Requirements:			8 Credits
Complete 8 credits of upper division electives.			8

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. A minimum of 52 credit hours must be in the major with a minimum of 20 credits taken at UVU. A minimum of 24 chemistry and physics credits must be upper-division.
6. Successful completion of at least one Global/Intercultural course.

Footnotes

* Must be repeated two times.

Physics Education, B.S.**Careers**

Careers:

This degree is to prepare the student to teach physics in high schools, both public and private.

Related Careers

- Physics Teachers, Postsecondary
- Education Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Physics, B.S.**Requirements**

A Bachelor's degree in physics provides the student with an understanding of the laws of nature and with the experimental and analytical techniques necessary to describe and solve problems in physical systems. The degree is most useful in preparing students for further graduate study in physics, astronomy, engineering or other science. However physics BS degree recipients have also entered graduate programs in law and medicine and other diverse programs. Those not intending to pursue advanced degrees find successful employment in a variety of careers, including education, computer science, electronics and related industries and more.

Total Program Credits: 120

Matriculation Requirements:			
1. Approval of department chair.			
General Education Requirements:			32Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing Humanities Social Sciences	3
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			68 Credits
	PHYS 2210	Physics for Scientists and Engineers I	4
	PHYS 2215	Physics for Scientists and Engineers I Lab	1
	PHYS 2220	Physics for Scientists and Engineers II	4
	PHYS 2225	Physics for Scientists and Engineers II Lab	1
	PHYS 3110	Modern Physics I	3
	PHYS 3115	Introduction to Experimental Physics I	2
	PHYS 3120	Modern Physics II	3
	PHYS 3125	Introduction to Experimental Physics II	2
	PHYS 3230	Principles of Electronics for the Physical Sciences	3
	PHYS 3300	Mathematical Physics	3
	PHYS 3330	Computational Physics	3
	PHYS 3400	Classical Mechanics	3

Physics

PHYS 3500	Thermodynamics	3
PHYS 3600	Optics	3
PHYS 4210	Advanced Experimental Techniques	3
PHYS 4410	Electrostatics and Magnetism	3
PHYS 4420	Electrodynamics	3
PHYS 4510	Quantum Mechanics I	3
PHYS 490R	Seminar (0.5 credits, taken 4 times)	2
MATH 1210	Calculus I	5
MATH 1220	Calculus II	5
MATH 2210	Calculus III	3
MATH 2280	Ordinary Differential Equations	3
Elective Requirements:		20 Credits
Complete 20 credits from the following courses. The selection of elective coursework should present a coherent theme such as engineering physics, medical physics, nuclear physics, geophysics, computational physics, etc. (Consult Advisor or Department Chair for assistance or to consider possible course substitutions.)		20
ASTR 2040	Intermediate Astronomy (3.0)	
ASTR 3050	Astrophysics I (3.0)	
ASTR 3060	Astrophysics II (3.0)	
ASTR 4350	Research Methods in Astronomy (3.0)	
PHYS 2500	Elementary Fluids and Thermal Physics (3.0)	
PHYS 2800	Introduction to Materials Physics (3.0)	
PHYS 3310	Advanced Mathematical Physics (3.0)	
PHYS 3350	Applications of LabVIEW in Physics (3.0)	
PHYS 3800	Energy use on Earth (3.0)	
PHYS 4100	Biophysics (3.0)	
PHYS 4150	Medical Physics (3)	
PHYS 4250	Nuclear Physics (3.0)	
PHYS 4350	Research Methods in Physics (3.0)	
PHYS 4520	Quantum Mechanics II (3.0)	
PHYS 4700	Acoustics ¹ (3.0)	
PHYS 4800	Solid State Physics ¹ (3.0)	
PHYS 481R	Physics Internship (1.0) (no more than 4 hours counted toward degree)	
PHYS 489R	Undergraduate Research in Physics (1.0) (no more than 9 hours counted toward degree)	
PHYS 492R	Topics in Physics (3.0) (may only be taken once toward degree credit)	
PHYS 495R	Independent Readings (1.0) (no more than 3 hours counted toward degree)	
PHYS 499A	Senior Project (2.0) ¹	
PHYS 499B	Senior Thesis (1.0) ¹	
See Physics Department academic advisor for possibly more complete and up to date list.		
CHEM 1210	Principles of Chemistry I (4.0) ²	
CHEM 1215	Principles of Chemistry I Laboratory (1.0)	
CHEM 1220	Principles of Chemistry II PP (4.0) ²	

CHEM 1225	Principles of Chemistry II Laboratory (1.0)	
Any CHEM course 2310 or higher except internship and independent study type courses.		
Any EENG course 2700 or higher except internship and independent study type courses.		
Any ENGR course 2010 or higher except internship and independent study type courses.		
MATH 2270	Linear Algebra (3.0)	
Any MATH course 3200 or higher except intership and independent study type courses.		
Any GEO course 3080 or higher, except internship and independent study-type courses.		
METO 3100	Climate and the Earth System (3.0)	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above with no grade lower than a "C" in core and elective requirement courses.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Footnotes:

- 1-Suggested elective option for the student intent on continuing physics studies in graduate school.
- 2-Strongly recommended for inclusion in any elective option.

Physics, B.S.

Careers

Careers:

Those pursuing advanced physics, or other advanced scientific degrees find employment in federally funded research labs, academic research institutions, industrial research laboratories, and in medical physics facilities such as hospitals and imaging centers. Those that terminate their education with a bachelor's degree find fulfilling careers in industry, engineering, education or government service. Frequently terminal-bachelor careers are focused in computer science, electronics or sciences involving precise measurements.

Related Careers

- Natural Sciences Managers
- Physicists
- Physics Teachers, Postsecondary
- Secondary School Teachers, Except Special and Career/Technical Education

Public Service Graduate Programs

College of Health and Public Service

- **Dean:** David A. McEntire
- **Office:** Hangar A - RM 207
- **Telephone:** 801-863-7817
- **Email:** david.mcentire@uvu.edu

Master of Public Service

- **Program Director:** Thomas Sturtevant
- **Office:** Hanger A - Rm 202
- **Telephone:** 801-863-7518
- **Email:** tom.sturtevant@uvu.edu
- **Advisor and Administrative Support:** Kim Sparks
- **Office:** Hanger A - Rm 208
- **Telephone:** 801-863-7790
- **Email:** KSparks@uvu.edu

Program Description

The Master of Public Service (MPS) degree at UVU develops the next generation of public service administrators. The MPS offers students an applied and engaging public sector education with broad based knowledge, skills, and abilities in public service administration. The interdisciplinary curriculum focuses on managing, leading, and administering vital public services and public safety functions with an emphasis on ethical considerations, communications, strategic planning, public policy issues, and research methods.

The MPS requires 36 semester hours of graduate course work; currently offered all online.

Admission Requirements

Bachelor degree holders with at least a 3.0 GPA cumulative or last 60 credit hours may apply. Potential students must apply for admission by completing the online MPS Graduate School Application. To be accepted, students must complete the following:

- Submit all official transcripts.
- Provide two letters of recommendation.
- Submit resume.
- Submit answer to essay questions.

Deadlines and current application requirements are posted on the MPS website; www.uvu.edu/mps.

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
1	\$406	\$35	\$441	1	\$986	\$35	\$1,021
2	\$812	\$70	\$882	2	\$1,972	\$70	\$2,042
3	\$1,218	\$105	\$1,323	3	\$2,958	\$105	\$3,063
4	\$1,624	\$140	\$1,764	4	\$3,944	\$140	\$4,084
5	\$2,030	\$175	\$2,205	5	\$4,930	\$175	\$5,105
6	\$2,436	\$210	\$2,646	6	\$5,916	\$210	\$6,126
7	\$2,842	\$245	\$3,087	7	\$6,902	\$245	\$7,147

8	\$3,248	\$280	\$3,528	8	\$7,888	\$280	\$8,168
9	\$3,654	\$315	\$3,969	9	\$8,874	\$315	\$9,189
10	\$4,060	\$350	\$4,410	10	\$9,860	\$350	\$10,210
11	\$4,466	\$350	\$4,816	11	\$10,846	\$350	\$11,196
12	\$4,872	\$350	\$5,222	12	\$11,832	\$350	\$12,182
13	\$5,278	\$350	\$5,628	13	\$12,818	\$350	\$13,168
14	\$5,684	\$350	\$6,034	14	\$13,804	\$350	\$14,154
15	\$6,090	\$350	\$6,440	15	\$14,790	\$350	\$15,140
16	\$6,496	\$350	\$6,846	16	\$15,776	\$350	\$16,126
17	\$6,902	\$350	\$7,252	17	\$16,762	\$350	\$17,112
18	\$7,308	\$350	\$7,658	18	\$17,748	\$350	\$18,098
19	\$7,714	\$350	\$8,064	19	\$18,734	\$350	\$19,084
20	\$8,120	\$350	\$8,470	20	\$19,720	\$350	\$20,070

Course Descriptions

Criminal Justice.....	617
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Degrees & Programs

Public Service, M.P.S.

Requirements

The Master of Public Service at Utah Valley University is an applied inter-disciplinary professional master's degree aimed at preparing public service administrators in emergency services and criminal justice. This graduate degree provides an in-depth education of the science and praxis of administering vital public services, public safety functions, ethical considerations, leadership, and strategic communications, along with issues in emergency management, civil security/resiliency, public works, transportation, critical infrastructure protection, post-disaster humanitarian response, pandemics, strategic planning, public health, and public policy issues.

Online Degree Plan

Total Program Credits: 36

Matriculation Requirements:
1. A 3.0 cumulative GPA from the institution where the undergraduate degree was awarded or a 3.0 GPA calculated on the last 60 semester hours (90 quarter hours) from the institution where the undergraduate degree was awarded.
2. A bachelor's degree from a regionally-accredited college/university, a nationally accredited program, or an international college or university recognized by a Ministry of Education in one of the following or related fields: *
<ul style="list-style-type: none"> • Emergency Services • Criminal Justice/Law Enforcement, Forensic Science • Political Science • Public and Community Health • Aviation Science • Emergency Management/Homeland Security • Emergency Medical Services • Business Administration, Organizational Management • Environmental Science • Public Admin/Public Management • Social Science • Technology Management
3. Graduate School Application.
4. Official transcripts from all attended institutions of higher education.
5. Two letters of recommendation.

Public Service Graduate Programs

6. Admissions Essay

Discipline Core Requirements:		24 Credits
MPS 6000	Public Services Administration	3
MPS 6010	Public Services Finance and Budgeting	3
MPS 6020	Public Services Policy and Evaluation	3
MPS 6030	Legal Issues for the Public Services	3
MPS 6040	Organizational Behavior in the Public Services	3
MPS 6050	Public Services Leadership and Ethics	3
MPS 6060	Research Methods for the Public Services	3
MPS 690R	Public Services Project	3
Elective Requirements:		12 Credits
Complete 12 credits		12
ESMG 6100	Psychology and the Emergency Services Responder (3.0)	
ESMG 6110	Disasters/Vulnerability/and Impacts (3.0)	
ESMG 6120	Emergency Planning and Response (3.0)	
ESMG 6130	Social Vulnerability in Emergencies (3.0)	
CJ 6200	Advanced Topics in Criminal Justice (3.0)	
CJ 6210	Information-based Decision Making for Criminal Justice Administrators (3.0)	
CJ 6220	Contemporary Issues In Criminal Justice (3.0)	
CJ 6230	Criminal Justice Policy (3.0)	
Graduate-level electives as approved by the MPS Director		

Graduation Requirements:

1. A minimum cumulative GPA of 3.0 or higher must be maintained within program.
2. All course work must be completed with a "B" or higher.

Footnotes

* Applicants with a bachelor's degrees in other fields may be admitted if they have at least two years of public services experience and completed undergraduate courses with a B grade or better. These applications are handled on a case-by-case basis.

Public Service, M.P.S. Careers

Careers:

A Master of Public Service (MPS) will prepare students from a variety of backgrounds (e.g., Criminal Justice, Emergency Services, Forensic Science, Aviation Science, Public and Community Health, Environmental Science, Public Works) for careers in the public sectors at the local, state, and/or national level. The core curriculum will educate the student in the functions/roles/responsibilities of government. Graduates will learn about leadership principles, management responsibilities, budgeting guidelines, and best practices in human resources.

Related Careers

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Public and Community Health

Name:	Public & Community Health
Location:	Health Professions Building West Campus 987 S Geneva Rd Orem, UT
Telephone:	801-863-8651
Email:	tcasanova@uvu.edu
Web Address:	uvu.edu/publichealth/
Chair:	Mary Brown

Mission Statement

The Department of Public and Community Health provides excellent, engaged learning experiences that will prepare successful students who are competent professionals serving the health needs of individuals, families, and communities.

Public & Community Health

- **Administrative Support:** Taylor Casanova
- **Mail Stop:** 170
- **Telephone:** 801-863-8651
- **Email:** tcasanova@uvu.edu

- **Advisor:** Becca Brimhall
- (AA/AS Community Health, BS Community Health - Community Health Education, Minor Community Health Education)
- **Office:** HP 101c
- **Telephone:** 801-863-6579
- **Email:** rebecca.brimhall@uvu.edu

- **Advisor:** Kristie Dockstader
- (BS Community Health - Health Services Administration, BS School Health Education, Minor School Health Education)
- **Office:** HP 101b
- **Telephone:** 801-863-6579
- **Email:** kdockstader@uvu.edu

Courses in the Public and Community Health area of study lead to possible careers in community health education and promotion, school health, health care management, and other community health and human service administration.

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health; an Associate in Science in Health Sciences; an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, School Health Education Emphasis, Health Services Administration; or a Health Minor with an emphasis in Community Health Education or School Health Education.

The Public and Community Health program at UVU provides support courses for General Education, the Elementary Education program, and the Integrated Studies program. The department is committed to provide course work that will enable students to complete an Associate in Science or Associate in Arts Degree with a pre-major in Community Health, and that can be transferred to other institutions.

DEPARTMENT CHAIR

MURPHY, Lynley *Associate Professor*

FACULTY

BARTHEL, Brian R. *Associate Professor*

BEMEL, James *Associate Professor*

BROWN, Mary *Associate Professor*

CUNNINGHAM, Ruthann *Assistant Professor*

FLINT, Matthew *Associate Professor*

HALL, Sarah M. *Assistant Professor*

JACKSON, TeriSue Smith *Associate Professor*

LARSEN, Merilee *Assistant Professor*

MURPHY, Lynley *Associate Professor*

WALSH, Robert O. *Professor*

WATERS, Blake *Assistant Professor*

Course Descriptions

Community Health.....	720
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Degrees & Programs

Community Health, A.A.

Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	Introduction to Statistics (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0) (recommended for Business majors)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			

Public and Community Health

	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	BIOL 1010	General Biology	3
or	BIOL 1610	General Biology I (4.0)	
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			17 Credits
	NUTR 1020	Foundations of Human Nutrition	3
	HLTH 1200	First Aid	2
	HLTH 2400	Concepts of Stress Management	3
	HLTH 2800	Human Sexuality	3
	HLTH 2600	Drugs Behavior and Society	3
Complete 3 credits from the following:			3
	COMM 2110	Interpersonal Communication (3.0)	
	ENVT 1110	Introduction to Environmental Management (3.0)	
	ENVT 1200	Environmental Worker Safety (3.0)	
	ENVT 2560	Environmental Health (3.0)	
	EXSC 270G	Foundations of Exercise Science (3.0)	
	HLTH 1300	Medical Terminology I (2.0)	
	HLTH 2200	Introduction to Health Professions (2.0)	
	HLTH 3000	Health Concepts of Death and Dying (3.0)	
	HLTH 3240	Womens Health Issues (3.0)	
	MGMT 3000	Organizational Behavior (3.0)	
	NUTR 2020	Nutrition Through the Life Cycle (3.0)	
	PSY 1100	Human Development Life Span (3.0)	
	PSY 2250	Psychology of Interpersonal Relationships (3.0)	
Elective Requirements:			8 Credits
	Same Foreign Language (1010 and 1020)		8

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours though course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Community Health, A.A.

Careers

Community Health, A.A. Careers

Related Careers

- Medical and Health Services Managers
- Community Health Workers

Community Health, A.S.

Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 62

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	BIOL 1010	General Biology	3
or	BIOL 1610	College Biology I (4.0)	
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			27 Credits
Complete the following:			
	NUTR 1020	Foundations of Human Nutrition	3
	HLTH 1200	First Aid	2
	HLTH 2400	Concepts of Stress Management	3
	HLTH 2800	Human Sexuality	3
	HLTH 2600	Drugs Behavior and Society	3

Complete 13 credits from the following:		13
COMM 2110	Interpersonal Communication (3.0)	
ENVT 1110	Introduction to Environmental Management (3.0)	
ENVT 1200	Environmental Worker Safety (3.0)	
ENVT 2560	Environmental Health (3.0)	
EXSC 270G	Foundations of Exercise Science (3.0)	
HLTH 1300	Medical Terminology I (2.0)	
HLTH 2200	Introduction to Health Professions (2.0)	
HLTH 3000	Health Concepts of Death and Dying (3.0)	
HLTH 3240	Womens Health Issues (3.0)	
MGMT 3000	Organizational Behavior (3.0)	
NUTR 2020	Nutrition Through the Life Cycle (3.0)	
PSY 1100	Human Development Life Span (3.0)	
PSY 2250	Psychology of Interpersonal Relationships (3.0)	

Graduation Requirements:

1. Completion of a minimum of 62 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Community Health, A.S.**Careers**

Community Health, A.S. Careers

Related Careers

- Medical and Health Services Managers
- Community Health Workers

Health Sciences, A.S.**Requirements**

The Associate of Science (AS) in Health Sciences will provide students who are undecided on which health program they will pursue an opportunity to complete an AS degree that includes some of the prerequisites for the BS degrees in health profession programs offered by Utah Valley University (UVU), and many of the health degrees offered across the USHE system. This Associate of Science in Health Sciences will allow the student to continue their education at UVU and other USHE schools in the areas of biology, chemistry, exercise science, and other health and science BS degrees. The degree includes instruction in medical terminology, physiology, anatomy, and other areas that will give the students a realistic overview of the health sciences. The Associate of Science in Health Sciences is transferrable to other colleges and universities and can be used as the foundation for moving on to a variety of health related disciplines preparing students to become a health professional.

Total Program Credits: 60

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		4
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:		3

	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
or	PHIL 205G	Ethics and Values	
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	COMM 1020	Public Speaking	3
Fine Arts Distribution			3
	PHYS 1010	General Psychology	3
	BIOL 1010	General Biology	3
or	BIOL 1610	College Biology I (4.0)	
	CHEM 1010	Introduction to Chemistry	3
or	CHEM 1110	Elementary Chemistry for the Health Sciences (4.0)	
	PHYS 1010	Elementary Physics	3
Discipline Core Requirements:			24 Credits
	ZOOL 2320	Human Anatomy	3
and	ZOOL 2325	Human Anatomy Laboratory	1
	ZOOL 2420	Human Physiology	3
and	ZOOL 2425	Human Physiology Laboratory	1
	STAT 2040	Principles of Statistics	4
or	BESC 3010	Statistics for the Behavioral Sciences (4.0)	
Complete 12 credits from the following. Courses cannot be counted multiple times.			12
	BIOL 1610	College Biology I (4.0) (If not taken for GE)	
	BIOL 1615	College Biology I Laboratory (1.0)	
	SOC 1010	Introduction to Sociology (3.0)	
or	PSY 1100	Human Development Life Span (3.0)	
	HLTH 1300	Medical Terminology I (2.0)	
	RESP 1540	Survey of Respiratory Therapy (1.0)	
	MICR 2060	Microbiology for Health Professions (3.0)	
	MICR 2065	Microbiology for Health Professions Laboratory (1.0)	
	MICR 3450	General Microbiology (3.0)	
	MICR 3455	General Microbiology Laboratory (1.0)	
	PHYS 2010	College Physics I (4.0)	
	PHYS 2015	College Physics I Lab (1.0)	
	PHYS 2020	College Physics II (4.0)	
	PHYS 2025	College Physics II Lab (1.0)	
	CHEM 1210	Principles of Chemistry I (4.0)	
	CHEM 1215	Principles of Chemistry I Laboratory (1.0)	

Public and Community Health

CHEM 1220	Principles of Chemistry II (4.0)	
CHEM 1225	Principles of Chemistry II Laboratory (1.0)	
PSY 3400	Abnormal Psychology (3.0)	
ZOOL 4400	Pathophysiology (4.0)	
Or other department approved courses		

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours though course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Health Sciences, A.S.

Careers

Related Careers

- Health Educators
- Community Health Workers

Community Health Education, Minor

Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 21

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		18 Credits
NUTR 1020	Foundations of Human Nutrition	3
HLTH 2600	Drugs Behavior and Society	3
HLTH 2800	Human Sexuality	3
HLTH 3200	Principles of Community Health	3
HLTH 3220	Foundations of Health Education	3
HLTH 3260	Theory-Based Approaches to Modifying Health Behavior	3
Elective Requirements:		3 Credits
Any upper-division HLTH course not used in Discipline Core		3

Community Health Education, Minor

Careers

Community Health Education, Minor Careers

Related Careers

- Medical and Health Services Managers
- Community Health Workers

School Health Education, Minor

Requirements

Students MUST have a Secondary Education degree to certify with the School Health Education Endorsement.

Total Program Credits: 25

Matriculation Requirements:		
1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:		25 Credits
NUTR 1020	Foundations of Human Nutrition	3
HLTH 1100	Personal Health and Wellness	2
or HLTH 3100	Health Education for Elementary Teachers (2.0)	
HLTH 1200	First Aid	2
HLTH 2400	Concepts of Stress Management	3
HLTH 2600	Drugs Behavior and Society	3
HLTH 2800	Human Sexuality	3
HLTH 3220	Foundations of Health Education	3
HLTH 4100	Health Education Curriculum for Secondary Teachers	3
HLTH 4200	Health Education Teaching Methods	3

School Health Education, Minor

Careers

School Health Education, Minor Careers

Related Careers

- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Community Health - Community Health Education Emphasis, B.S.

Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 120

Matriculation Requirements:		
In order to be matriculated into the 'Community Health' program, students must complete all general education requirements; HLTH 3200 & ZOOL 1090 with at least a C- grade; STAT 1040 or STAT 1045 (for Community Health majors), MATH 1050, MATH 1055, or MATH 1090 (for Health Services Administration majors); and a GPA of 2.75 or higher.		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following: STAT 1040 or STAT 1045 (for Community Health Education majors), MATH 1050 or MATH 1055 or MATH 1090 (for Health Services Administration majors);		3
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0) (for Community Health Education emphasis)	

	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0) (for Health Services Administration emphasis)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses			
	BIOL 1010	General Biology	3
or	BIOL 1610	College Biology I (4.0)	
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science ¹		3
Discipline Core Requirements:			26 Credits
	ZOOL 1090	Introduction to Human Anatomy and Physiology	3
	ENVT 2560	Environmental Health	3
	HLTH 3200	Principles of Community Health	3
	HLTH 3230	Professional Development for Community Health	2
	HLTH 3260	Theory-Based Approaches to Modifying Health Behavior	3
	HLTH 3400	Human Diseases	3
	HLTH 350G	International Health	3
or	HLTH 440G	Health and Diversity (3.0)	
	HLTH 3800	Epidemiology	3
	HLTH 3700	Grant Writing (3.0)	
or	HLTH 4600	Research Methods for Community Health	3
Emphasis Requirements:			31 Credits
	NUTR 1020	Foundations of Human Nutrition	3
	HLTH 2600	Drugs Behavior and Society	3
	HLTH 3220	Foundations of Health Education	3
	HLTH 3600	Social Marketing	3
	HLTH 3750	Biostatistics for Public Health	3
	HLTH 4140	Community Health Assessment and Program Development	3
	HLTH 4160	Program Implementation and Evaluation	3

	HLTH 4250	Public Health Organization and Policy	3
	HLTH 4300	Community Health Ethics	3
	HLTH 482R	Community Health Internship (1.0)	4
Emphasis Elective Requirements:			28 Credits
Complete 12 credits of the following- at least 6 of which are upper division:			12
	HLTH 1200	First Aid (2.0)	
	HLTH 2000	Body Image, Self-Esteem, and Weight Management (3.0)	
	HLTH 2400	Concepts of Stress Management (3.0)	
	HLTH 2800	Human Sexuality (3.0)	
	HLTH 3000	Health Concepts of Death and Dying (3.0)	
	HLTH 3240	Womens Health Issues (3.0)	
	HLTH 3300	Health Promotion for Older Adults (3.0)	
	HLTH 4720	CHES Preparation (1.0)	
	HLTH 490R	Special Topics in Community Health (1.0)	
	NUTR 2020	Nutrition Through the Life Cycle (3.0)	
Complete 16 credits of any courses 1000 or higher (minor).			16

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVU.
2. Overall GPA of 2.50 grade point average of 2.5 or above with a minimum GPA of 2.75 in all core and emphasis courses. No grade lower than a C- in core or emphasis courses.
3. Complete the following courses with a minimum grade of C- or better: HLTH 3200 and all Emphasis Courses.
4. Overall grade point average of 2.5 or above with a minimum GPA of 2.75 in Major and Minor courses.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Footnote:

1-[HLTH 2800](#) Human Sexuality SS recommended.

Community Health - Community Health Education Emphasis, B.S. Careers

Community Health - Community Health Education Emphasis, B.S. Careers

Related Careers

- Medical and Health Services Managers
- Community Health Workers

Community Health - Health Services Administration Emphasis, B.S.

Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 120

Public and Community Health

Matriculation Requirements:		
In order to be matriculated into the 'Community Health' program, students must complete all general education requirements; HLTH 3200 & ZOOL 1090 with at least a C- grade; STAT 1040 or STAT 1045 (for Community Health majors), MATH 1050, MATH 1055, or MATH 1090 (for Health Services Administration majors); and a GPA of 2.75 or higher.		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following: STAT 1040 or STAT 1045 (for Community Health Education majors), MATH 1050 or MATH 1055 or MATH 1090 (for Health Services Administration majors);		3
STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
STAT 1045	Introduction to Statistics with Algebra (for Community Health Education emphasis) (5.0)	
MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
MATH 1055	College Algebra with Preliminaries (for Health Services Administration emphasis) (5.0)	
MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses		
BIOL 1010	General Biology	3
or BIOL 1610	College Biology I (4.0)	
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science ¹		3
Discipline Core Requirements:		26 Credits
ZOOL 1090	Introduction to Human Anatomy and Physiology	3
ENVT 2560	Environmental Health	3
HLTH 3200	Principles of Community Health	3
HLTH 3230	Professional Development for Community Health	2

HLTH 3260	Theory-Based Approaches to Modifying Health Behavior	3
HLTH 3400	Human Diseases	3
HLTH 350G	International Health	3
or HLTH 440G	Health and Diversity (3.0)	
HLTH 3800	Epidemiology	3
HLTH 3700	Grant Writing (3.0)	
or HLTH 4600	Research Methods for Community Health	3
Emphasis Requirements:		49 Credits
HLTH 3160	Health Care Law	3
or LEGL 3000	Business Law (3.0)	
HLTH 3300	Health Promotion for Older Adults	3
HLTH 4250	Public Health Organization and Policy	3
HLTH 4300	Community Health Ethics	3
HLTH 4500	Public Health Administration	3
HLTH 482R	Community Health Internship	4
ECON 2020	Macroeconomics	3
MGMT 2340	Business Statistics I	3
MGMT 3000	Organizational Behavior	3
HR 3430	Introduction to Human Resource Management	3
MKTG 2200	Written Business Communication	3
MKTG 2390	Professional Business Presentations	3
MKTG 3600	Principles of Marketing	3
ACC 2010	Financial Accounting	3
ACC 2020	Managerial Accounting	3
IM 2600	Spreadsheet Applications	3
Emphasis Elective Requirements:		10 Credits
Complete 10 credits of any course 1000 or higher		10

Graduation Requirements:

1. Completion of a minimum of 126 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVU.
2. A minimum of 34 credit hours must be in the major with minimum of 20 credits taken at UVU. A minimum of 20 Health credits must be upper-division.
3. Complete the following courses with a minimum grade of C- or better: HLTH 3200, and all Emphasis Courses.
4. Overall grade point average of 2.5 or above with a minimum GPA of 2.75 in Major and Minor courses.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Footnote:

1-HLTH 2800 Human Sexuality SS recommended.

Community Health - Health Services Administration Emphasis, B.S. Careers

Community Health - Health Services Administration Emphasis, B.S. Careers

Related Careers

- Medical and Health Services Managers
- Community Health Workers

School Health Education, B.S.

Requirements

Students in the Department of Public and Community Health may receive an Associate in Science or Arts with an emphasis in Community Health: an Integrated Studies Bachelor of Science or Arts with a Community Health Emphasis; a Bachelor of Science in Community Health in one of the following areas: Community Health Emphasis, Health Services Administration Emphasis, or School Health Education. A minor in Community Health Education is available, as well as an endorsement for School Health Education.

Total Program Credits: 120

Matriculation Requirements:		
1.	ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.	
2.	GPA of 3.0 or higher with no grade lower than a C in content area courses.	
3.	Completion of all General Education requirements and the majority of content area courses.	
4.	Complete HLTH 3230 with a minimum grade of C or better.	
5.	Pass LiveScan Criminal Background Check.	
General Education Requirements:		36 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3
	MATH 1050	College Algebra 4
or	MATH 1055	Illege Algebra with Preliminaries (5.0)
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)
	HIST 1740	US Economic History (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values 3
	HLTH 1100	Personal Health and Wellness 2
or	PES 1097	Fitness for Life (2.0)
Distribution Courses		
	BIOL 1010	General Biology 3
or	BIOL 1610	College Biology I (4.0)
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		72 Credits
	ENVT 2560	Environmental Health 3
	HLTH 1200	First Aid 2
	HLTH 2400	Concepts of Stress Management 3
	HLTH 2600	Drugs Behavior and Society 3
	HLTH 2800	Human Sexuality 3

HLTH 3200	Principles of Community Health	3
HLTH 3220	Foundations of Health Education	3
HLTH 3230	Professional Development for Community Health	2
HLTH 3260	Theory-Based Approaches to Modifying Health Behavior	3
HLTH 3400	Human Diseases	3
HLTH 4100	Health Education Curriculum for Secondary Teachers	3
HLTH 4200	Health Education Teaching Methods	3
NUTR 1020	Foundations of Human Nutrition	3
ZOOL 1090	Introduction to Human Anatomy and Physiology	3
Secondary Education Courses:		
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
EDSP 3400	Exceptional Students	2
Elective Requirements:		12 Credits
Complete 12 credits of Secondary Education unrestricted electives.		12

Graduation Requirements:

1. Completion of a minimum of 120 semester credits with a minimum of 40 upper-division credits. A minimum of at least 10 hours earned in the last 45 hours must be earned at UVU.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Completion of GE and specified departmental requirements.
4. Successful completion of at least one Global/Intercultural course.

School Health Education, B.S.

Careers

Careers:

The Secondary Education School Health Education Bachelor of Science degree, endorses students to teach Health in the Jr. High and High School setting. Students earn a teaching License for the State of Utah.

Related Careers

- Education Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Secondary Education

Name:	Secondary Education
Location:	ME 116
Telephone:	801-863-8228
Email:	waitebr@uvu.edu
Web Address:	uvu.edu/education/secondary/
Chair:	Bryan Waite

Mission Statement

The School of Education prepares competent, caring and qualified individuals who are ready to assume the role of teacher in secondary schools, as well as prepare them for further career choices and advancement. The professional program provides essential coursework and experiences to support students as they progress toward becoming professional educators.

Students are engaged in research-based and standards-based instruction in content and pedagogy. Candidates are expected to plan, instruct, and assess in a manner that meets curriculum, school and district goals as-well-as the diverse instructional and experiential needs of all students. Candidates reflect on their own practice and performance, analyze progress, and make choices for future professional growth.

Secondary Education

Department Chair: Bryan Waite

- **Office:** ME 112m
- **Telephone:** 801-863-6721
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- **Administrative Support:** Cindy Wilkinson
- **Office:** ME 117
- **Telephone:** 801-863-5657
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- **Field Coordinator:** John Burton
- **Office:** ME 131b
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-

- **Advisor:** Kim Fale
- **Office:** ME 114b
- **Telephone:** 801-863-5184
- **Email:** kim.fale@uvu.edu
- [Schedule an appointment](#)

Secondary Education Partner Districts

Alpine School District
Canyons School District
Granite School District
Jordan School District
Nebo School District
North Summit School District
Park City School District
Provo School District
South Summit School District
Wasatch School District

Professional Teacher Education Program

The Professional Teacher Education Program at Utah Valley University is designed to prepare quality, entry-level candidates for teaching in secondary education programs grades 7-12. All students who matriculate in the professional licensure program must have a major in an approved content area.

The UVU teacher education licensure program is accredited by the Association for Advancing Quality in Educator Preparation (AAQEP), the Utah State Office of Education, and the Northwest Commission on Colleges and Universities.

Admission to the Teacher Education Licensure Program is a separate process from and in addition to admission to Utah Valley University. Meeting the minimum requirements qualifies the student to be considered for admission.

Career Opportunities

Career opportunities result from completion of the UVU Professional Teacher Education Program which qualifies students for a license in Secondary Education. Certain EDSC courses transfer to other institutions offering these programs.

Licensure

Students seeking secondary school licensure in approved content areas complete a major in that area and required coursework in Secondary Education to qualify for a Level I Utah State Professional Educator License for grades 7-12. Post BS/BA students seeking a secondary teaching license complete education course requirements and content area methods courses to qualify for the Level I Professional Educator License. Post BS/BA must be in a compatible major from a regionally accredited institution. Baccalaureate degrees (BS and BA) are granted through the content area department and not through the School of Education.

Licensure/Degree Areas

A Baccalaureate Degree (BS and BA) may be earned in the following content area departments: Art Education, ASL and Deaf Studies Education, Biology Education, Business/Marketing Education, Chemistry Education, Physics Education, Dance Education, Earth Science Education, English Education, History Education, Mathematics Education, Music Education, Physical Education Teacher Education, Theatre Arts Education, School Health Education, Secondary French Education, Spanish Education, Special Education, English as a Second Language (ESL), and a Certificate of Proficiency and Minor in Autism Studies.

Admission & Retention

Admission to the Secondary Education Program is required for enrollment in professional studies level courses. Admission criteria*: 1) ACT exam minimums: composite score of 21, English 20, Math 19; or SAT exam minimums: Critical Read/Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement; 2) GPA of 3.00 or higher; 3) Completion of all General Education requirements and the majority of content area courses; 4) No grade lower than a C in content area courses; 5) An interview directed by the Teacher Education Admission Retention Committee; and 6) A LiveScan Criminal Background check. Applicants are accepted into the Teacher Education Program for fall and spring semesters after meeting entrance requirements.

*Please contact the Secondary Education Advisor for the current admission requirements.

To continue in the program, students are expected to maintain all program standards. They must maintain expected levels of competence in all education-related coursework, field work, and student teaching with all course grades at or above a B- and a program GPA of 3.00 or higher. Additionally, teacher candidates are expected to adhere to standards of professionalism as articulated in the UVU Professional Teacher Dispositions document.

School of Education

- **Dean:** Parker Fawson
- **Office:** ME 117b
- **Telephone:** 801-863-8006

DEPARTMENT CHAIR

WAITE, Bryan Associate Professor

FACULTY

ASHCRAFT, Carrie Lecturer

CALL, Jennifer Lecturer

CARLSON, Jane I. Assistant Professor

COX, Susan Associate Professor

KUNAKEMAKORN, Numsiri Associate Professor

RAMIREZ, Axel Professor

REYES, Kyle Assistant Professor

SELLAND, Makenzie Assistant Professor

WAITE, Bryan Associate Professor

WARBURTON, Trevor Assistant Professor

WILLIAMS, Lynda Lecturer

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Autism Studies, Minor

Requirements

The Minor in Autism Studies will be beneficial to anyone needing to work with, or interact with, those who have an Autism Spectrum Disorder (ASD). This would include those in supervisory positions overseeing ASD adults, educators who may have students with an ASD diagnosis in their classrooms, counselors and medical professionals, emergency services personnel, information and insight.

Total Program Credits: 21

Discipline Core Requirements:		21 Credits
Prerequisites:		
ENGL 1010	Introduction to Writing	3
or Writing proficiency determined by Autism Studies program director		
Complete the following:		
AUTS 2500	Understanding the Autism Spectrum	3
AUTS 3810	Autism Across the Lifespan I Infants and Children	3
AUTS 3820	Autism across the Lifespan II Teens and Adults	3
AUTS 3850	Autism Assessment and Treatment	3
AUTS 481R	Field Placement	3
AUTS 482R	Autism Seminar	1
Elective Requirement		
Complete the following:		2
AUTS 485R	Board Certified Assistant Behavior Analyst Individual Supervision (must be taken twice) (1.0)	
or Other approved Behavioral Science or Education electives- see academic advisor		

Course Descriptions

Autism Studies.....	593
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Edu Special Education.....	666

Degrees & Programs

Autism Studies, Certificate of Proficiency

Requirements

The Autism Studies Certificate of Proficiency will be beneficial to anyone needing to work with, or interact with, those who have Autism Spectrum Disorder (ASD). This would include those in supervisory positions overseeing ASD adults, educators who may have students with an ASD diagnosis in their classrooms, counselors and medical professionals, emergency services personnel, librarians and other city personnel, and anyone seeking additional information and insight.

Total Program Credits: 16

Discipline Core Requirements:		16 Credits
Prerequisites:		
ENGL 1010	Introduction to Writing	
or Writing proficiency determined by Autism Studies program director		
Complete the following:		
AUTS 2500	Understanding the Autism Spectrum	3
AUTS 3810	Autism Across the Lifespan I Infants and Children	3
AUTS 3820	Autism across the Lifespan II Teens and Adults	3
AUTS 3850	Autism Assessment and Treatment	3
AUTS 481R	Field Placement	3
AUTS 482R	Group Autism Seminar	1

Graduation Requirements:

1. Completion of a minimum 16 semester credits.
2. Overall GPA of 2.0 or above.
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

Autism Studies, Certificate of Proficiency

Careers

Careers:

Autism Studies, Minor

Careers

Careers:

Courses in these areas of study lead to possible careers in mental health, counseling, family services, education, law enforcement, research, marketing, human resources, management, rehabilitation, anthropology, psychology, sociology, social work, and other human services.

Related Careers

- Managers, All Other
- Clinical, Counseling, and School Psychologists
- Psychologists, All Other
- Psychology Teachers, Postsecondary

Secondary Education

Secondary Education, Licensure

Requirements

The Professional Teacher Education Program at Utah Valley University is designed to prepare quality, entry level candidates for teaching in secondary education programs grades 7-12.

All students who matriculate into the professional licensure program must have a major in an approved content area. Students seeking licensure in approved content areas complete a major in that area and required coursework in Secondary Education to qualify for a Level I Utah State Professional Educator License for grades 7-12.

Baccalaureate degrees (BS and BA) are granted through the content area department and not through the School of Education. Licensure is granted through the School of Education Program.

To continue in the teacher education program, students are expected to maintain all program standards. They must maintain expected levels of competence in all coursework, field work, and student teaching with all course grades at or above a B- or higher. Additionally, teacher candidates are expected to adhere to standards of personal integrity, responsibility, and citizenship commonly expected of professional educators.

Total Program Credits: 32

Matriculation Requirements:		
1.	ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.	
2.	GPA of 3.0 or higher with no grade lower than a C in content area courses.	
3.	Completion of all General Education requirements and the majority of content area courses.	
4.	Pass group interview directed by the Secondary Teacher Education Department.	
5.	Pass LiveScan Criminal Background Check.	
Discipline Core Requirements:		32 Credits
	EDSC 3000	Educational Psychology
	EDSC 3050	Foundations of American Education
	EDSC 3250	Instructional Media
	EDSP 3400	Exceptional Students
	EDSC 4200	Classroom Management I
	EDSC 4250	Classroom Management II
	EDSC 445G	Multicultural Instruction ESL
	EDSC 4440	Content Area Literacies
	EDSC 4550	Secondary Curriculum Instruction and Assessment
	EDSC 4850	Student Teaching--Secondary

Secondary Education, Licensure Careers

Related Careers

- Secondary School Teachers, Except Special and Career/Technical Education

Special Education, B.S.

Requirements

The Professional Special Education Teacher Education Program at Utah Valley University is designed to prepare quality, entry-level candidates for teaching students with mild to moderate disabilities in special education programs grades K-12. Students successfully completing the Teacher Education Program graduation and licensure requirements will receive a BS in Special Education and a Level I Utah Professional Teaching License. Through electives, students can choose to specialize in concentration

areas such as Autism Studies or Secondary Special Education Mathematics. To continue in the Teacher Education Program, students are expected in all coursework, to maintain all program standards. They must maintain expected levels of competence in fieldwork and student teaching placements with all course grades at or above a B- and a program GPA of 3.00 or higher. In addition, teacher candidates are expected to adhere to standards of personal integrity, responsibility, and citizenship commonly expected of professional educators.

Total Program Credits: 122

General Education Requirements:		36 Credits
	ENGL 1010	Introduction to Writing
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)
	MATH 1050	College Algebra ***
or	MATH 1055	College Algebra with Preliminaries
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)
	HIST 1740	US Economic History (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values
	HLTH 3100	Health Education for Elementary Teachers
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	ART 3400	Elementary Art Education Methods (fulfills Fine Arts)
or	THEA 2200	Theatre and Drama in the Elementary School (fulfills Fine Arts) (3.0)
or	MUSC 3400	Music in the Elementary School (fulfills Fine Arts) (2.0)
and	DANC 3400	Dance in the Elementary School (2.0)
	PSY 1100	Human Development Life Span ***
Discipline Core Requirements:		74 Credits
Pre-Professional Core Requirements: *		
	EDEL 1010	Introduction to Education **
	EDEL 2330	Childrens Literature **
	EDSP 3400	Exceptional Students **
	MATH 2010	Mathematics for Elementary Teachers I ***
	MATH 2020	Mathematics for Elementary Teachers II ***
	SLSS 120R	Testing Strategies for Educators
	EDSP 3840	Instruction and Assistive Technology **
	EDEL 3000	Educational Psychology
	EDEL 3350	Curriculum Design and Assessment

or	EDSC 4550	Secondary Curriculum Instruction and Assessment (3.0)	
	EDEL 4200	Classroom Management I	1
	EDEL 4210	Classroom Management II	1
	EDEL 4400	Literacy Methods I	3
	EDSC 4440	Content Area Literacies	3
	EDEL 443G	Teaching English as a Second Language	3
or	EDSC 445G	Multicultural Instruction ESL (3.0)	
	EDEL 4510	Elementary Math Methods I	3
	EDEL 4550	Elementary Math Methods II	3
	EDSP 4100	Instructional Strategies and Program Management for Students with Mild/Moderate Disabilities	3
	EDSP 4110	Special Education Law/Policies/Procedures	3
	EDSP 4120	School to Post-School Transition Planning	2
	EDSP 4130	Math Instruction for Students with Mild/Moderate Disabilities	2
	EDSP 4131	Math Practicum	1
	EDSP 4135	Reading and Writing Instruction for Students with Mild/Moderate Disabilities K-12	2
	EDSP 4136	Reading Practicum	1
	EDSP 4140	Collaboration and Consultation with Parents and School Staff	3
	EDSP 4160	Assessment and Evaluation in Special Education	3
	AUTS 4650	Autism and Applied Behavior Analysis	3
	EDSP 4885	Special Education Student Teaching--Grades K-6	5
	EDSP 4895	Special Education Student Teaching--7-12	5
Elective Requirements:			12 Credits
Complete additional credits to meet requirements. (Must be completed with a grade of B- or higher.)			12
Recommended elective courses:			
Autism Courses (Lead to Minor Track)			
	AUTS 3810	Autism Across the Lifespan I Infants and Children (3.0)	
	AUTS 2500	Understanding the Autism Spectrum (3.0)	
	AUTS 3820	Autism across the Lifespan II Teens and Adults (3.0)	
	AUTS 3850	Autism Assessment and Treatment (3.0)	
Education Courses (Lead to Dual License)			
	PETE 2150	Elementary Physical Education SPARK Method (2.0)	
	ART 3400	Elementary Art Education Methods (3.0)	
	EDEL 2200	Computer Technology in Education (2.0)	
If students are interested in a different track, they can choose other approved teacher support concentrations as elective courses (see advisor).			

Graduation Requirements:

1. Completion of a minimum of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA).

3. Residency hours -- minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Application forms are available at the beginning of each Spring semester, must be completed by March 1st, and can be obtained in the Education Department, 801-863-8527.

Footnotes
* Students must complete all Pre-Professional and General Education courses with an overall GPA of 3.0 before they are formally admitted into the Teacher Preparation Program.
** Must be completed with a grade of B- or higher
*** "C" grade or higher
**** Department approval required.

Special Education, B.S. Careers

Related Careers

- Special Education Teachers, Preschool
- Special Education Teachers, Kindergarten and Elementary School
- Special Education Teachers, Middle School
- Special Education Teachers, Secondary School
- Special Education Teachers, All Other

Social Work Graduate Programs

College of Humanities and Social Sciences

- **Dean:** Steven Clark
- **Office:** CB 509b
- **Telephone:** 801-863-8082
- **Email:** Steven.clark@uvu.edu

Master of Social Work

- **Department Chair:** Cameron John
- **Office:** CB 210b
- **Telephone:** 801-863-8809
- **Email:** Cameron.John@uvu.edu
- **Coordinator:** Lars Eggertsen
- **Office:** CB 210d
- **Telephone:** 801-863-6731
- **Email:** LarsE@uvu.edu
- **Advisor:** Mykenzie Hydo
- **Office:** CB 408c
- **Telephone:** 801-863-5770
- **Email:** mhydo@uvu.edu
-

Program Description

The Master of Social Work (MSW) is designed to educate and prepare students for a career at an advanced level in the social work profession. The MSW will prepare students to become a Licensed Clinical Social Worker (LCSW), qualifying them for a wider range of employment opportunities (mental health, medical social work, child welfare, etc.) working with various populations (children, adolescents, adults, elderly, disabled, etc.). The MSW program has three different specializations: Addictions, Mental Health, and Engaging with Diverse Populations, which will focus on the Latino, Polynesian, and Refugee communities. These areas of focus are projected to be significant areas of growth within the social work field over the next decade and beyond.

This dynamic, two year full-time program offers required courses in the areas of social work practice, human behavior and social environment, social welfare policy and analysis, social work with Latino, Pacific Islanders, and other Communities of Color, social work research methods, addictions, and a capstone course. Upon graduation, students will have also completed approximately 1,000 hours of field practicum experience. The program offers elective tracks in addictions, mental health, and engaging with diverse populations.

Admission Requirements

Potential students must apply for admission into the program. To be accepted, students must have completed a Bachelor's degree, preferably in Psychology, Social Work, or a related area. However, applicants who have a Bachelor's degree in another field may be admitted to the program if they can demonstrate significant work or volunteer experience in the Human Services field. All applicants are required to complete SW 1010, BESC 3010, and BESC 3020 or equivalent courses outside of UVU.

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
1	\$355	\$35	\$390	1	\$935	\$35	\$970
2	\$710	\$70	\$780	2	\$1,870	\$70	\$1,940
3	\$1,065	\$105	\$1,170	3	\$2,805	\$105	\$2,910

4	\$1,420	\$140	\$1,560	4	\$3,740	\$140	\$3,880
5	\$1,775	\$175	\$1,950	5	\$4,675	\$175	\$4,850
6	\$2,130	\$210	\$2,340	6	\$5,610	\$210	\$5,820
7	\$2,485	\$245	\$2,730	7	\$6,545	\$245	\$6,790
8	\$2,840	\$280	\$3,120	8	\$7,480	\$280	\$7,760
9	\$3,195	\$315	\$3,510	9	\$8,415	\$315	\$8,730
10	\$3,550	\$350	\$3,900	10	\$9,350	\$350	\$9,700
11	\$3,905	\$350	\$4,255	11	\$10,285	\$350	\$10,635
12	\$4,260	\$350	\$4,610	12	\$11,220	\$350	\$11,570
13	\$4,615	\$350	\$4,965	13	\$12,155	\$350	\$12,505
14	\$4,970	\$350	\$5,320	14	\$13,090	\$350	\$13,440
15	\$5,325	\$350	\$5,675	15	\$14,025	\$350	\$14,375
16	\$5,680	\$350	\$6,030	16	\$14,960	\$350	\$15,310
17	\$6,035	\$350	\$6,385	17	\$15,895	\$350	\$16,245
18	\$6,390	\$350	\$6,740	18	\$16,830	\$350	\$17,180
19	\$6,745	\$350	\$7,095	19	\$17,765	\$350	\$18,115
20	\$7,100	\$350	\$7,450	20	\$18,700	\$350	\$19,050

Course Descriptions

Social Work..... 813

Degrees & Programs

Social Work Advanced Standing, M.S.W.

Requirements

The Master of Social Work (MSW) at UVU is designed to educate and prepare students for a career at the next level in the social work profession. The MSW will prepare students to become a Licensed Clinical Social Worker (LCSW) qualifying them for a wider range of employment opportunities (mental health, medical social work, child welfare, etc.) working with various populations (children, adolescents, adults, elderly, disabled, etc.). The MSW Program will have three different specializations: Mental Health, Addictions (including substance and nonsubstance addictions, i.e. pornography, gambling, painkillers, etc.), and Engaging with Diverse Populations.

Total Program Credits: 43

Discipline Core Requirements:	37 Credits
Social Work Core	
Complete the following:	
Advanced Standing Bridge Requirement	
SW 6490	MSW Advanced Standing Bridge Course 4
SW 6491	MSW Advanced Standing Skills Course 4
Complete the following:	
SW 6030	Social Work Practice III-Advanced Practice with Individuals and Families 3
SW 6040	Social Work Practice IV-Advanced Practice with Groups and Complex Cases 3
SW 6050	Social Work Practice V-Advanced Practice with Organizations and Communities 3
SW 6320	Social Work with Latino, Pacific Islanders, and other Communities of Color 3
SW 6400	Social Work Research Methods 3
SW 6500	Addictions 2
SW 6950	MSW Capstone 2

Field Practicum Requirement			
Complete the following:			
	SW 6830	Integrative Seminar III	1
and	SW 6930	Advanced Field Practicum I	4
	SW 6840	Integrative Seminar IV	1
and	SW 6940	Advanced Field Practicum II	4
Elective Requirements:			6 Credits
Choose one of the following Tracks:			6
Addictions Track			
	SW 6510	Clinical Issues in Substance-Related Addictions (2.0)	
	SW 6520	Clinical Issues in Non-Substance Related Addictions (2.0)	
	SW 6530	Psychopharmacology (2.0)	
or	other departmental approved courses		
Mental Health Track - Complete six credits from the following			
	SW 6610	Spirituality in Social Work (2.0)	
	SW 6620	Marriage and Family Therapy (2.0)	
	SW 6630	Mental Health Diagnosis (2.0)	
	SW 6640	Crisis Intervention (2.0)	
	SW 6650	Couples Therapy (2.0)	
	SW 6660	Family Violence Across the Lifespan (2.0)	
or	other departmental approved courses		
Engaging with Diverse Populations Track			
	SW 6700	Advanced Practice with Communities of Color and Other Diverse Populations (2.0)	
	SW 6710	Policy Practice with Communities of Color and Other Diverse Populations (2.0)	
	SW 6720	Engaging and Empowering the Latino Community (2.0)	
or	other departmental approved courses		

Graduation Requirements:

1. Completion of a minimum of 43 semester credits required in the Master of Social Work degree.
2. Completion of a minimum of 29 semester credits must be completed through the University.
3. Overall grade point average of 3.0 or higher in all Master of Social Work courses.
4. A grade of "C-" or higher required for all courses used to satisfy graduation requirement.

Social Work Advanced Standing, M.S.W.

Careers

Related Careers

- Marriage and Family Therapists
- Counselors, All Other
- Child, Family, and School Social Workers
- Healthcare Social Workers
- Mental Health and Substance Abuse Social Workers
- Social Workers, All Other
- Probation Officers and Correctional Treatment Specialists
- Social Work Teachers, Postsecondary

Social Work, M.S.W.

Requirements

The Master of Social Work (MSW) at UVU is designed to educate and prepare students for a career at the next level in the social work profession. The MSW will prepare students to become a Licensed Clinical Social Worker (LCSW) qualifying them for a wider range of employment opportunities (mental health, medical social work, child welfare, etc.) working with various populations (children, adolescents, adults, elderly, disabled, etc.). The MSW Program will have three different specializations: Mental Health, Addictions (including substance and nonsubstance addictions, i.e. pornography, gambling, painkillers, etc.), and Engaging with Diverse Populations.

Total Program Credits: 60

Discipline Core Requirements:			54 Credits
Social Work Core			
Complete the following:			
	SW 6000	Social Work Practice I-Individuals	3
	SW 6020	Social Work Practice II-Groups	3
	SW 6030	Social Work Practice III-Advanced Practice with Individuals and Families	3
	SW 6040	Social Work Practice IV-Advanced Practice with Groups and Complex Cases	3
	SW 6050	Social Work Practice V-Advanced Practice with Organizations and Communities	3
	SW 6200	Human Behavior and the Social Environment I	3
	SW 6210	Human Behavior and the Social Environment II	3
	SW 6300	Social Welfare Policy and Analysis	3
	SW 6320	Social Work with Latino, Pacific Islanders, and other Communities of Color	3
	SW 6400	Social Work Research Methods	3
	SW 6500	Addictions	2
	SW 6950	MSW Capstone	2
Field Practicum Requirement			
Complete the following:			
	SW 6810	Integrative Seminar I	1
and	SW 6910	Foundation Field Practicum I	4
	SW 6820	Integrative Seminar II	1
and	SW 6920	Foundation Field Practicum II	4
	SW 6830	Integrative Seminar III	1
and	SW 6930	Advanced Field Practicum I	4
	SW 6840	Integrative Seminar IV	1
and	SW 6940	Advanced Field Practicum II	4
Elective Requirements:			6 Credits
Choose one of the following Tracks:			
Addictions Track			
	SW 6510	Clinical Issues in Substance-Related Addictions (2.0)	
	SW 6520	Clinical Issues in Non-Substance Related Addictions (2.0)	
	SW 6530	Psychopharmacology (2.0)	
or	other departmental approved courses		
Mental Health Track - Complete six credits from the following			
	SW 6610	Spirituality in Social Work (2.0)	

Social Work Graduate Programs

	SW 6620	Marriage and Family Therapy (2.0)	
	SW 6630	Mental Health Diagnosis (2.0)	
	SW 6640	Crisis Intervention (2.0)	
	SW 6650	Couples Therapy (2.0)	
	SW 6660	Family Violence Across the Lifespan (2.0)	
or	other departmental approved courses		
Engaging with Diverse Populations Track			
	SW 6700	Advanced Practice with Communities of Color and Other Diverse Populations (2.0)	
	SW 6710	Policy Practice with Communities of Color and Other Diverse Populations (2.0)	
	SW 6720	Engaging and Empowering the Latino Community (2.0)	
or	other departmental approved courses		

Graduation Requirements:

1. Completion of a minimum of 60 semester credits required in the Master of Social Work degree.
2. Completion of a minimum of 40 semester credits must be completed through the University.
3. Overall grade point average of 3.0 or higher in all Master of Social Work courses.
4. A grade of "C-" or higher required for all courses used to satisfy graduation requirement.

Social Work, M.S.W.

Careers

Related Careers

- Marriage and Family Therapists
- Counselors, All Other
- Child, Family, and School Social Workers
- Healthcare Social Workers
- Mental Health and Substance Abuse Social Workers
- Social Workers, All Other
- Probation Officers and Correctional Treatment Specialists
- Social Work Teachers, Postsecondary

Strategic Management and Operations

Name:	Strategic Management & Operations
Location:	WB 134
Telephone:	801-863-7144
Email:	David.McArthur@uvu.edu
Web Address:	uvu.edu/woodbury/strategicmgmt/
Chair:	David N McArthur

Students graduating from the Department of Strategic Management and Operations have many opportunities in private industry, government, and entrepreneurship fields. The Woodbury School of Business offers Bachelor degrees, Associate degrees, an Associate in Applied Science degree and Certificates of Proficiency.

Faculty in the Department of Strategic Management and Operations Department have real-world expertise they bring to the classroom. Internships are an integral part of a student's education. Students are able to get hands-on experience which gives them the combination of theory and practice in a real-world setting. Graduates of the UVU Strategic Management and Operations program are well prepared to work in multiple aspects of business or to go on to graduate school for additional education.

Career Opportunities

Many opportunities exist for those trained in strategic management and operations in areas such as private industry, government, and entrepreneurship. Possible jobs in domestic and international businesses include business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers.

Job Outlook

Job demand is high, particularly in larger metropolitan areas; and the employment outlook is excellent.

Programs

Students focusing on degrees in the Department of Strategic Management and Operations may receive a Certificate of Completion in Business Management or Entrepreneurship, an Associate in Applied Science degree in Business Management, an Associate in Science degree with a pre-major in Business, a Bachelor of Science degree in Entrepreneurship, or a Bachelor of Science degree in Business Management with an emphasis in one of the following three areas: General Business, Hospitality Management or International Business.

Woodbury School of Business

Advisement Center:

- **Office:** WB 257
- **Telephone:** 801-863-8032
- **Email:** WB_Advisors@uvu.edu

Dean: Norman S. Wright

- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** Norman.Wright@uvu.edu

DEPARTMENT CHAIR

MCARTHUR, David N. *Associate Professor*

FACULTY

- ADAMS, Lynn L.** *Associate Professor*
- CALISKAN, Cenk** *Associate Professor*
- EL SAIDI, Mohammed** *Professor*
- GOUGH, Vance** *Assistant Professor*
- HAMIDI, Mohsen** *Assistant Professor*
- HAMILTON, Carolyn** *Associate Professor*
- HUFFMAN, Tammy** *Associate Professor*
- MCARTHUR, David N.** *Associate Professor*
- MILLER, Ronald** *Professor*
- MILLIGAN, Patrick** *Professional In Residence*
- MORTENSEN, James** *Professional In Residence*
- RHOADS, Kevin A.** *Assistant Professor*
- ROBINSON, Peter B.** *Professor*
- SCHULTZ, Jennifer** *Associate Professor*
- SEELEY, Eugene L.** *Associate Professor*
- SMITH, Gregory Richard** *Visiting Professional in Residence*
- WARMBIER, H. Peter** *Lecturer*

Course Descriptions

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Degrees & Programs

Associate in Science in Business, A.S.B.

Requirements

An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

[Online Degree Plan](#)

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher			
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	

Strategic Management and Operations

	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Behavioral/Social Science Distribution		3
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:			25 Credits
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	MATH 1100	Introduction to Calculus	4
	MKTG 2200	Written Business Communication	3
	ECON 2020	Macroeconomics	3
	ECON 2010	Microeconomics	3
	LEGL 3000	Business Law	3
	MGMT 2340	Business Statistics I	3
or	STAT 2040	Principles of Statistics (4.0)	
Complete one of the following:			
	My Educator*		
or	IM 2010	Business Computer Proficiency (3.0)*	
or	IM 2600	Spreadsheet Applications (3.0)*	

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with 2.5 GPA or above in Business courses. No grade below C- in business courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Notes: See information on the back of the program card for additional specialized general education/major requirements for individual transfer schools (some requirements for other schools cannot be taken at UVU).

Footnote
* Students will be required to complete the My Educator with a score of 80 percent or higher or complete the IM 2010 or IM 2600 course with a score of 80 percent or higher.

Associate in Science in Business, A.S.B. Careers

Careers:	
Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and	

purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Business Management, A.A.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

[Online Degree Plan](#)

Total Program Credits: 63

General Education Requirements:		17 Credits	
ENGLISH			
	ENGL 1010	Introduction to Writing	3
MATHEMATICS			
	MAT 1010	Intermediate Algebra	4
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE			
	Any approved Humanities, Fine Arts, or Foreign Language		3
SOCIAL AND BEHAVIORAL SCIENCE			
	ECON 1010	Economics as a Social Science	3
BIOLOGY OR PHYSICAL SCIENCE			
	Any approved Biology of Physical Science course		3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			
	Any approved Physical Education, Health, Safety or Environment course		1
Discipline Core Requirements:		30 Credits	
	ACC 2010	Financial Accounting (3.0)	3
	ACC 2020	Managerial Accounting (3.0)	3
	MGMT 1010	Introduction to Business	3
	My Educator*		
or	IM 2010	Business Computer Proficiency	3
or	IM 2600	Spreadsheet Applications (3.0)	
	Business Computer Proficiency Exam *		
	FIN 1060	Personal Finance	3
	MKTG 2200	Written Business Communication	3
	MKTG 2390	Professional Business Presentations	3

	MGMT 3000	Organizational Behavior	3
	MKTG 3600	Principles of Marketing	3
	LEGL 3000	Business Law	3
Elective Requirements:			16 Credits
	Any ACC, ECON, FIN, HM, LEGL, MGMT, MKTG course 1000 level or higher **		9
	General Education Electives (select from Distribution List):		7

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above with 2.5 required for all Woodbury School of Business courses. No grade below C- in required courses.
3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements.

Footnote
* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher. If My Educator is taken, student must take three additional credits of electives 1000 level or higher
** No more than three credits of MGMT 281R Cooperative Work Experience will be allowed as business elective; see advisor for further recommendations.

Business Management, A.A.S.

Careers

Careers:
Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Pre-Major in Business, A.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

[Online Degree Plan](#)

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:			3
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business	
	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher		
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Behavioral/Social Science Distribution (ECON 2020 will fulfill this requirement)		3
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:			15 Credits
Choose 15 credits from the following list:			15
	ACC 2010	Financial Accounting (3.0)	
	My Educator*		
or	IM 2010	Business Computer Proficiency (3.0)*	
or	IM 2600	Spreadsheet Applications (3.0)*	
	LEGL 3000	Business Law (3.0)	
	ECON 2020	Macroeconomics (3.0)	
	MKTG 2200	Written Business Communication (3.0)	
	MKTG 2390	Professional Business Presentations (3.0)	
	MGMT 3000	Organizational Behavior (3.0)	
Elective Requirements:			10 Credits
Complete any 10 credits numbered 1000 or higher			10

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with 2.5 GPA in Business courses. No grade below "C-" in Business courses.

Strategic Management and Operations

3. Residency hours: Minimum of 20 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Footnote

* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

Pre-Major in Business, A.S. Careers

Careers:

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Business Management, Certificate of Completion

Requirements

Students completing this program of study may receive a Certificate of Completion in Business Management.

Total Program Credits: 30

Discipline Core Requirements:		24 Credits
FIN 1060	Personal Finance	3
MGMT 1010	Introduction to Business	3
MKTG 2200	Written Business Communication	3
MKTG 2390	Professional Business Presentations	3
ACC 1150	Fundamentals of Business Math	3
ACC 2010	Financial Accounting	3
My Educator*		
or	IM 2010	Business Computer Proficiency*
or	IM 2600	Spreadsheet Applications (3.0)*
ECON 1010	Economics as a Social Science	3
Elective Requirements:		6 Credits
Choose six credits of business electives from the ACC, ECON, FIN, HM, LEGL MKTG, or MGMT prefixes. A maximum of 3 credits may be cooperative work experience.		6

Graduation Requirements:

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 or above with 2.5 GPA or above in Business courses. No grade below "C-" in business courses.
3. Residency hours: Minimum of 10 credit hours through course attendance at UVU with at least 12 credits of Woodbury School of Business courses.

Footnote

* Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher. If My Educator is taken, student must take three additional credits of electives 1000 level or higher

Business Management, Certificate of Completion Careers

Careers:

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas, and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Entrepreneurship, Certificate of Proficiency

Requirements

Students minoring in the business management area of entrepreneurship will be exposed to and practice the skills needed by entrepreneurs in starting and developing their own businesses or growing the business of another entrepreneur.

Total Program Credits: 16

Discipline Core Requirements:		13 Credits
ENTR 3170	Entrepreneurship**	3
ENTR 3180	Small Business Development**	3
ENTR 3190	Early-stage Financing	3
ENTR 4300	Strategic Innovation*	3
ENTR 493R	Entrepreneurship Lecture Series	1
Elective Requirements:		3 Credits
Choose 3 credits from the following:		3
ENTR 4200	Technology-based Opportunity Identification (3.0)	
ENTR 4210	Career Development for Entrepreneurs (3.0)	
ENTR 3220	Entrepreneurship Law (3.0)**	

Graduation Requirements:

1. Completion of a minimum of 16 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 6 credit hours through course attendance at UVU.

Note: The Certificate in Entrepreneurship provides students from all majors outside the Woodbury School of Business a program by which they can add the mindset and basic competencies provided in a formal entrepreneurship program without abandoning their chosen field of study. Coursework includes principles of small business development, financing, technology-based opportunity identification, law, and personal entrepreneurial development.

Footnote
* Course prerequisite of MATRICULATION will be waived for non-business majors who are enrolled in the Certificate program.
** Has a prerequisite of ENGL 1010.

Entrepreneurship, Certificate of Proficiency Careers

Many opportunities exist for those trained in business management (entrepreneurship) in private industry and through entrepreneurship. Possible jobs in developing other entrepreneurs' businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Possible jobs open as self-employed entrepreneurs are limited only by imagination and skills brought to the market.

Related Careers

- Chief Executives
- General and Operations Managers
- Managers, All Other
- Business Teachers, Postsecondary

Business Management, Minor

Requirements

Students minoring in business management may have their Bachelor of Science (whether in Business Management or in another field) endorsed with a Minor in Business Management.

Total Program Credits: 22

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			19 Credits
Business Core Courses:			
	ACC 3000	Financial Managerial and Cost Accounting Concepts	3
	IM 2600	Spreadsheet Applications	3
	LEGL 3000	Business Law	3
	MKTG 2200	Written Business Communication	3
	ECON 2020	Macroeconomics	3
	MGMT 3000	Organizational Behavior	3
	MGMT 495R	Executive Lecture Series	1
or	ENTR 493R	Entrepreneurship Lecture Series (1.0)	
Elective Requirements:			3 Credits
Choose one of the following:			3
	FIN 3100	Principles of Finance (3.0) *	
	MGMT 330G	Survey of International Business (3.0)	
	HR 3430	Introduction to Human Resource Management(3.0)	
	MKTG 3600	Principles of Marketing (3.0)	

Graduation Requirements:

1. Overall grade point average of 2.5 in all Woodbury School of Business courses and no grade lower than a C- in business courses.
2. Completion of GE and specified departmental requirements.

Note: Students are responsible for completing all prerequisite courses. Not available to Business Management majors.

Footnote
* Cannot be taken until student is matriculated into a bachelor degree program.

Business Management, Minor Careers

Careers:

Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. Possible jobs in domestic businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas, and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Entrepreneurship, Minor

Requirements

Students minoring in the business management area of entrepreneurship will be exposed to and practice the skills needed by entrepreneurs in starting and developing their own businesses or growing the business of another entrepreneur.

Total Program Credits: 18

Discipline Core Requirements:			15 Credits
	ENTR 3170	Entrepreneurship	3
	ENTR 3180	Small Business Development	3
	ENTR 3190	Early-stage Financing	3
	ENTR 4300	Strategic Innovation	3
	ACC 2010	Financial Accounting (3.0)	
and	ACC 2020	Managerial Accounting (3.0)	
or	ACC 2030	Principles of Accounting (6.0)	
or	ACC 3000	Financial Managerial and Cost Accounting Concepts	3
Elective Requirements:			3 Credits
Choose 3 credits from the following:			3
	HR 3430	Introduction to Human Resource Management (3.0)	
	MKTG 3650	Professional Selling (3.0)	

Strategic Management and Operations

	MKTG 3670	Advertising and Promotion (3.0)	
	LEGL 3000	Business Law (3.0)	

Entrepreneurship, Minor Careers

Careers:		
<p>Many opportunities exist for those trained in business management (entrepreneurship) in private industry and through entrepreneurship. Possible jobs in developing other entrepreneurs' businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Possible jobs open as self-employed entrepreneurs are limited only by imagination and skills brought to the market.</p>		

Related Careers

- Chief Executives
- General and Operations Managers
- Managers, All Other
- Business Teachers, Postsecondary

Business Management - General Business Emphasis, B.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

[Online Degree Plan](#)

Total Program Credits: 120

General Education Requirements:		35 Credits
	ENGL 1010	Introduction to Writing 3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3
Complete one of the following:		3
	MATH 1050	College Algebra (4.0)
	MATH 1055	College Algebra with Preliminaries (5.0)
	MATH 1090	College Algebra for Business
or	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher	
Complete one of the following:		3
	HIST 2700	US History to 1877 (3.0)
and	HIST 2710	US History since 1877 (3.0)
	HIST 1700	American Civilization (3.0)
	HIST 1740	US Economic History (3.0)
	POLS 1000	American Heritage (3.0)
	POLS 1100	American National Government (3.0)
Complete the following:		
	PHIL 2050	Ethics and Values 3
	HLTH 1100	Personal Health and Wellness (2.0)
or	PES 1097	Fitness for Life 2

Distribution Courses:		
	ECON 2020	Macroeconomics (Social/Behavioral Science) ¹ 3
	Biology 3	
	Physical Science 3	
	Additional Biology or Physical Science 3	
	Humanities Distribution 3	
	Fine Arts Distribution 3	
Discipline Core Requirements:		45 Credits
Business Foundation Courses (required for matriculation):		
	ACC 2010	Financial Accounting 3
	ACC 2020	Managerial Accounting 3
Complete one of the following: ²		
	My Educator	
	IM 2010	Business Computer Proficiency (3.0)
	IM 2600	Spreadsheet Applications (3.0)
Complete the following		
	MATH 1100	Introduction to Calculus ³ 4
or	MGMT 2240	Business Calculus (3.0)
	MKTG 2200	Written Business Communication (Complete with B- grade or higher) 3
	ECON 2010	Microeconomics 3
	MGMT 2340	Business Statistics I 3
	MKTG 2390	Professional Business Presentations 3
Business Core Courses:		
	FIN 3100	Principles of Finance 3
	LEGL 3000	Business Law 3
	MKTG 3600	Principles of Marketing 3
	MGMT 3000	Organizational Behavior 3
	MGMT 3450	Operations Management 3
	MKTG 3890	Career Preparation 3
	MGMT 4860	Business Strategy Formulation and Implementation 4
or	MGMT 4835	Management Consulting Strategy Implementation
and	MGMT 4840	Management Consulting (3.0)
	ENTR 493R	Entrepreneurship Lecture Series (1.0)
or	MGMT 495R	Executive Lecture Series 1
Elective Requirements:		13 Credits
Select 13 credits of any non-Woodbury School of Business courses		13
	MGMT 450R	Leadership Practicum (highly recommended) (1.0)
Emphasis Requirements:		27 Credits
	MGMT 3020	Individual Action and Corporate Social Responsibility 3
	MGMT 330G	Survey of International Business 3
	HR 3430	Introduction to Human Resource Management 3
	MGMT 481R	Internship 3

Complete 15 credits of pre-approved upper-division courses. See advisor for list of courses.	15
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Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote	
1- Cannot be taken until student has matriculated.	
2-Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.	
3- If MGMT 2240 is taken, an additional 1 credit of elective may be required. See Advisor.	

Business Management - General Business Emphasis, B.S.

Careers

Careers:	
Many opportunities exist for those trained in business management in private industry, government, and through entrepreneurship. US Dept of Labor reports estimate a 12% growth through 2022 in jobs requiring Bachelor's degrees – such as those offered by the Management Department. Possible jobs in domestic and international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent. A current employer survey by the National Association of Colleges and Employers showed that 86% expected to hire graduates with BS degrees in business.	

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Business Management - Hospitality Management Emphasis, B.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management or International

Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

Online Degree Plans

Total Program Credits: 120

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:		3
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business	
or	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher	
Complete one of the following:		3
HIST 2700	US History to 1877 (3.0)	
and	HIST 2710 US History since 1877 (3.0)	
HIST 1700	American Civilization (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097 Fitness for Life	2
Distribution Courses:		
ECON 2020	Macroeconomics (Social/Behavioral Science) ¹	3
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Discipline Core Requirements:		45 Credits
Business Foundation Courses (required for matriculation):		
ACC 2010	Financial Accounting	3
ACC 2020	Managerial Accounting	3
Complete one of the following: ²		
My Educator		
IM 2010	Business Computer Proficiency (3.0)	
IM 2600	Spreadsheet Applications (3.0)	
Complete the following		
MATH 1100	Introduction to Calculus ³	4
or	MGMT 2240 Business Calculus (3.0)	
MKTG 2200	Written Business Communication (Complete with B- grade or higher)	3
ECON 2010	Microeconomics	3
MGMT 2340	Business Statistics I	3

Strategic Management and Operations

	MKTG 2390	Professional Business Presentations	3
Business Core Courses:			
	FIN 3100	Principles of Finance	3
	LEGL 3000	Business Law	3
	MKTG 3600	Principles of Marketing	3
	MGMT 3000	Organizational Behavior	3
	MGMT 3450	Operations Management	3
	MKTG 3890	Career Preparation	3
	MGMT 4860	Business Strategy Formulation and Implementation	4
or	MGMT 4835	Management Consulting Strategy Implementation	
and	MGMT 4840	Management Consulting (3.0)	
	ENTR 493R	Entrepreneurship Lecture Series (1.0)	
or	MGMT 495R	Executive Lecture Series	1
Elective Requirements:			13 Credits
Select 13 credits of any non-Woodbury School of Business courses			13
	MGMT 450R	Leadership Practicum (highly recommended) (1.0)	
Emphasis Requirements:			27 Credits
	MGMT 330G	Survey of International Business	3
or	MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
	HM 3020	Hospitality Managerial Accounting	3
	HM 3390	Hotel Operations II	3
	HM 3640	Food and Beverage Controls	3
	HM 3710	Marketing of Hospitality Services	3
	HM 4150	Hospitality Revenue Management	3
	HM 4550	Hospitality Strategic Management	3
	HM 481R	Internship (1.0)	6

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote	
1-Cannot be taken until student has matriculated.	
2-Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.	
3-If MGMT 2240 is taken, an additional 1 credit of elective may be required. See Advisor.	

Business Management - Hospitality Management Emphasis, B.S.

Careers

Careers:
Many opportunities exist for those trained in business management in the hospitality, tourism, and restaurant industries. US Dept of Labor reports estimate a 12% growth through 2022 in jobs requiring Bachelor's degrees – such as those offered by the Business Management - Hospitality Management program. Possible jobs exist in domestic and international venues in these industries including business managers, business executives, operations managers, human resources managers, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Business Management - International Business Emphasis, B.S.

Requirements

Students majoring in business management may receive a Certificate of Completion, an Associate in Applied Science in Business Management, an Associate in Science with a pre-major in Business, a Bachelor of Science in Hospitality Management, or a Bachelor of Science in Business Management with a specialization in one of the following four areas: Entrepreneurship, General Business, Hospitality Management, or International Business. An Associate in Science Woodbury School of Business transfer degree is available for students planning to transfer to another college or university in Utah.

[Online Degree Plan](#)

Total Program Credits: 120

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
Complete one of the following:			3
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business	
or	An Advanced Placement (AP) Mathematics Test with a score of 3 or higher		
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	

Complete the following:		
PHIL 2050	Ethics and Values	3
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
ECON 2020	Macroeconomics (Social/Behavioral Science) ¹	3
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution		3
Fine Arts Distribution		3
Discipline Core Requirements:		45 Credits
Business Foundation Courses (required for matriculation):		
ACC 2010	Financial Accounting	3
ACC 2020	Managerial Accounting	3
Complete one of the following: ²		
My Educator		
IM 2010	Business Computer Proficiency (3.0)	
IM 2600	Spreadsheet Applications (3.0)	
Complete the following		
MATH 1100	Introduction to Calculus ³	4
or MGMT 2240	Business Calculus (3.0)	
MKTG 2200	Written Business Communication (Complete with B- grade or higher)	3
ECON 2010	Microeconomics	3
MGMT 2340	Business Statistics I	3
MKTG 2390	Professional Business Presentations	3
Business Core Courses:		
FIN 3100	Principles of Finance	3
LEGL 3000	Business Law	3
MKTG 3600	Principles of Marketing	3
MGMT 3000	Organizational Behavior	3
MGMT 3450	Operations Management	3
MKTG 3890	Career Preparation	3
MGMT 4860	Business Strategy Formulation and Implementation	4
or MGMT 4835	Management Consulting Strategy Implementation	
and MGMT 4840	Management Consulting (3.0)	
ENTR 493R	Entrepreneurship Lecture Series (1.0)	
or MGMT 495R	Executive Lecture Series	1
Elective Requirements:		13 Credits
Select 13 credits of any non-Woodbury School of Business courses		13
MGMT 450R	Leadership Practicum (highly recommended) (1.0)	
Emphasis Requirements:		12 Credits
FIN 4180	International Finance Management ¹	3

MGMT 332G	Cross-Cultural Communications for International Business	3
MKTG 335G	International Marketing	3
MGMT 4870	International Management ¹	3
Emphasis Elective Requirements:		15 Credits
Complete 15 pre-approved elective credits. See advisor for list of specific courses.		15

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core and specialization courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote
1- Cannot be taken until student has matriculated.
2- Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.
3- If MGMT 2240 is taken, an additional 1 credit of elective may be required. See Advisor.

Business Management - International Business Emphasis, B.S. Careers

Careers:
Many opportunities exist for those trained in business management and an emphasis in international business in private industry and through entrepreneurship. US Dept of Labor reports estimate a 12% growth through 2022 in jobs requiring Bachelor's degrees – such as those offered by the Management Department. Possible jobs in international businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Job demand is high, particularly in larger metropolitan areas and the employment outlook is excellent. A current employer survey by the National Association of Colleges and Employers showed that 86% expected to hire graduates with BS degrees in business.

Related Careers

- Chief Executives
- General and Operations Managers
- Sales Managers
- Administrative Services Managers
- Industrial Production Managers
- Transportation, Storage, and Distribution Managers
- Construction Managers
- Social and Community Service Managers
- Managers, All Other
- Cost Estimators
- Management Analysts
- Business Teachers, Postsecondary

Strategic Management and Operations

Entrepreneurship, B.S.

Requirements

Students minoring in the business management area of entrepreneurship will be exposed to and practice the skills needed by entrepreneurs in starting and developing their own businesses or growing the business of another entrepreneur.

Total Program Credits: 120

General Education Requirements:		35 Credits	
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business	
An Advanced Placement (AP) Mathematics Test with a score of 3 or higher			
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	ECON 2020	Macroeconomics * (fulfills Social/Behavioral Science credit)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:		62 Credits	
Business Foundation Courses (required for Matriculation):			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	My Educator**		
or	IM 2010	Business Computer Proficiency (3.0)**	
or	IM 2600	Spreadsheet Applications (3.0)**	
	ECON 2010	Microeconomics	3
	MGMT 2240	Business Calculus	3
or	MATH 1100	Introduction to Calculus (4.0)	

	MKTG 2200	Written Business Communication (Complete with a grade of B- or higher.)	3
	MGMT 2340	Business Statistics I	3
	MKTG 2390	Professional Business Presentations	3
Business Core Courses:			
	FIN 3100	Principles of Finance *	3
	ENTR 3220	Entrepreneurship Law	3
or	LEGL 3000	Business Law	
	MGMT 3000	Organizational Behavior	3
	MGMT 330G	Survey of International Business	3
or	MGMT 332G	Cross-Cultural Communications for International Business (3.0)	
or	ECON 305G	International Economics (3.0)	
or	MKTG 335G	International Marketing (3.0)	
	MGMT 3450	Operations Management *	3
	MKTG 3600	Principles of Marketing	3
	ENTR 4210	Career Development for Entrepreneurs	3
or	MKTG 3890	Career Preparation (3.0)	
	ENTR 493R	Entrepreneurship Lecture Series (1.0)	1
	MGMT 4860	Business Strategy Formulation and Implementation *	4
or	MGMT 4840	Management Consulting (3.0)	
and	MGMT 4835	Management Consulting Strategy Implementation (1.0)	
Entrepreneurship Core Requirements:			
	ENTR 3170	Entrepreneurship	3
	ENTR 4200	Technology-based Opportunity Identification*	3
	ENTR 4400	New Venture Financing *	3
	ENTR 4450	Enterprise Formation *	3
	ENTR 4455	New Venture Consulting (3.0) *	3
Elective Requirements:		20 Credits	
Select 12 credits from the following:		12	
	ENTR 3180	Small Business Development (3.0)	
	ENTR 4300	Strategic Innovation (3.0)	
	MKTG 3660	Digital Marketing (3.0)	
	MKTG 3690	Advanced Digital Marketing and Analytics (3.0)	
	MKTG 3670	Advertising and Promotion (3.0)	
	MGMT 481R	Internship, Approval needed by WSB Internship Manager (1.0)	
Select 8 credits of any non-Woodbury School of Business courses		8	

Graduation Requirements:

1. Completion of a minimum of 120 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all Woodbury School of Business courses. No grade lower than a "C-" in core courses.
3. Residency hours: Minimum of 30 credit hours of business courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

NOTE: Students will be limited to 9 hours of upper-division credit until MATRICULATION is completed.

Footnote

* Courses with an asterisk (*) cannot be taken until student is matriculated.

** Students are required to complete My Educator, IM 2010, or IM 2600 with a score of 80 percent or higher.

Entrepreneurship, B.S.

Careers

Many opportunities exist for those trained in business management (entrepreneurship) in private industry and through entrepreneurship. Possible jobs in developing other entrepreneurs' businesses include agents, business managers, business executives, operations managers, health service administrators, human resources managers, job benefits and analysis specialists, management analysts, office managers, and purchasing managers. Possible jobs open as self-employed entrepreneurs are limited only by imagination and skills brought to the market.

Related Careers

- Chief Executives
- General and Operations Managers
- Managers, All Other
- Business Teachers, Postsecondary

Student Leadership and Success Studies

Name:	Student Leadership & Success Studies
Location:	LC 407
Telephone:	801-863-8834
Email:	ereid@uvu.edu
Web Address:	www.uvu.edu/slss/
Chair:	Chris Goslin

Student Leadership & Success Studies

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- Telephone: 801-863-6558
- Email: cgoslin@uvu.edu
- **Administrative Support:** Beth Reid
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- Telephone: 801-863-8834
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- **Director, UVU Mentor Program:** Mike Jensen
- Office: LC 406a
- Telephone: 801-863-7090
- Email: jensenm@uvu.edu
- **Program Manager, UVU Mentor Program:** Angus Macfarlane
- Office: LC 406b
- Telephone: 801-863-5436
- Email:

The mission of the Student Leadership and Success Studies (SLSS) department is to help students acquire the knowledge, skills and abilities needed to meet the challenges of college. Students may choose from a variety of SLSS courses which best fit their academic needs. Our courses help students with the preparation for the demands of college life, the selection/pursuit of major and career paths to graduation, the improvement of time management, stress management, effective library research, and the developing of essential life skills. The SLSS courses prepare students to develop and apply leadership in their lives, facilitating personal and social impact.

Programs & Degrees

The Department of Student Leadership & Success Studies values student-centered learning and focuses on assisting students exploring the direction of their academic careers, seeking flexibility in degree choices, or undertaking an enhanced college experience.

Programs Offered

- AA in University Studies
- AS University Studies
- BA University Studies
- BS University Studies

Certificates Offered

- Leadership for Personal & Social Impact

University College

University College serves a unique role and mission within Utah Valley University. Based on a national model, the name University College signifies opportunity for student success through curricular and co-curricular offerings, academic services, and innovative programs. University College welcomes students at present levels of academic achievement and challenges them with higher expectations. The programs

and departments of Literacies and Composition, Student Leadership & Success Studies, Developmental Mathematics, English Language Learning, Academic Counseling Center, Academic Standards, Writing Center, Academic Tutoring, Math Lab, and First Year Experience & Student Retention promote interdisciplinary partnerships as students transition into university academics.

- **Dean:** Forrest Williams
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- **Associate Dean:** Deborah Marrott
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DEPARTMENT CHAIR

GOSLIN, Christopher *Associate Professor*

FACULTY

ASHMAN, Marinda G. *Associate Professor*

BORNS, Renee *Associate Professor*

ECKTON, Darin *Associate Professor*

GARDNER, Douglas *Associate Professor*

GOSLIN, Christopher *Associate Professor*

JENSEN, Michael A. *Associate Professor*

JOHNSON, Benjamin *Assistant Professor*

LAMBERT, Lisa *Associate Professor*

RICHARDS, Denise *Associate Professor*

SANFT, Marni *Associate Professor*

WADDOUPS, Stacy D. *Associate Professor*

WONG, Cynthia *Assistant Professor*

YOAST, Tiffany *Lecturer*

Course Descriptions

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Degrees & Programs

University Studies, A.A.

Requirements

The University Studies Associate in Arts/Science is designed to provide an opportunity for students who may be potentially exploring their career and major options, or provides flexibility for those that are seeking an Associate that enables transferability or simply completion of a broad variety of curriculum options. The AS/AA UVST enables the ability to begin work toward the General Education requirements while meeting the needs of a broad variety of student circumstances.

Total Program Credits: 60

General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3

Student Leadership and Success Studies

	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			25 Credits
	First Year Experience Requirement ¹		
	Complete one of the following:		3
	SLSS 1200	The 7 Habits of Highly Effective People (3.0)	
	SLSS 1190	Power Reading and Learning Strategies (3.0)	
	SLSS 2100	Major and Career Exploration (3.0)	
	SLSS 1000	University Student Success (3.0)	
	Any course(s) 1000 or higher		14
	One Language (other than English) to include the 1010 or 1020 levels		8

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Footnote:

1-Must be taken in the First two semesters

University Studies, A.A. Careers

Careers:

The AS/AA in University Studies is an Associate's degree that allows for customization and flexibility in a student's educational path. While not specifically focused on a particular major of focus, the AS/AA University Studies requires completion of General Education coursework along with 25 credits of electives. These electives allow students to customize their curriculum to their individual needs, explore various major and career opportunities, and utilize credits toward graduation that may span a broad variety of topics. This flexibility lends itself to multiple career opportunities or progression into a variety of BA/BS options.

Related Careers

- Postsecondary Teachers, All Other

University Studies, A.S.

Requirements

The University Studies Associate in Arts/Science is designed to provide an opportunity for students who may be potentially exploring their career and major options, or provides flexibility for those that are seeking an Associate that enables transferability or simply completion of a broad variety of curriculum options. The AS/AA UVST enables the ability to begin work toward the General Education requirements while meeting the needs of a broad variety of student circumstances.

Online Degree Plan

Total Program Credits: 60

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	

Student Leadership and Success Studies

	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution	3
		Fine Arts Distribution	3
		Social/Behavioral Science	3
Discipline Core Requirements:			25 Credits
		First Year Experience Requirement ¹	
		Complete one of the Following	3
	SLSS 1200	The 7 Habits of Highly Effective People (3.0) (First Year Experience Requirement)	
	SLSS 1190	Power Reading and Learning Strategies (3.0)	
	SLSS 1000	University Student Success (3.0)	
	SLSS 2100	Major and Career Exploration (3.0)	
		Any course(s) 1000 or higher	22

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote:

1-Must be taken in the First two semesters

University Studies, A.S. Careers

Careers:

The AS/AA in University Studies is an Associate's degree that allows for customization and flexibility in a student's educational path. While not specifically focused on a particular major, the AS/AA University Studies requires completion of General Education coursework along with 25 credits of Electives. These electives allow students to customize their curriculum to their individual needs, explore various major and career opportunities, and utilize credits toward graduation that may span a broad variety of topics. This flexibility lends itself to multiple career opportunities or progression into a variety of BA/BS options.

Related Careers

- Postsecondary Teachers, All Other

Leadership for Personal and Social Impact, Certificate of Proficiency

Requirements

The Leadership for Personal and Social Impact certificate provides an academic setting where students gain theoretical and practical skills with principles of self-awareness

and improvement that can immediately transform personal success and performance. As students learn and apply these principles and skills they will also be provided with and create their own engaging experiences to become more active contributors and stewards across a wide range of professional, volunteer, public, and private settings in their current and future local, regional, national, and international communities. Students from any academic major or minor are encouraged to enroll in and complete this certificate. Currently, two of the courses are offered online, (SLSS 1000 and SLSS 1200) so it is possible that students may choose to take those courses online. Initially, it is anticipated that the other courses will be offered on the main campus. As interest and demand increases, the Department of Student Leadership and Success Studies will reevaluate and may offer the remaining courses online.

Total Program Credits: 16

General Education Requirements:		16 Credits
SLSS 1200	The 7 Habits of Highly Effective People	3
SLSS 2500	Leader--Strengths-Based Inner Coach	3
SLSS 3200	Leader--Teacher and Mentor	3
SLSS 405G	Leader--Global Contributor	3
SLSS 4800	Leader Capstone--Lifelong Change Agent	4

Graduation Requirements:

1. Complete 16 credits of course work.
2. Earn a minimum 2.5 GPA in all certificate course work with no grades lower than a C-.
3. Residency hours -- Minimum of 4 credits required through course attendance at UVU.

Leadership for Personal and Social Impact, Certificate of Proficiency Careers

Related Careers

- Postsecondary Teachers, All Other

University Studies, B.A.

Requirements

The BA/BS is designed to meet the academic and professional objectives of learners whose needs are not addressed through existing degree programs. The degree assists learners in developing essential skills valued by employers and graduate schools (e.g., applied learning, critical thinking, written and oral communication, teamwork, ethical reasoning, and global understanding) within the framework of a larger discipline. Learners will complete a structured yet customized set of upper division courses under the guidance of an advisor and faculty mentor to ensure that standards for academic rigor at the Bachelor level are achieved. Candidates for the degree will focus on intellectual skills and integrative knowledge by enrolling in courses in a general disciplinary area with intentionally-selected, specialized knowledge courses that contribute to an integrated whole, and by completing a capstone experience that further prepares them for their chosen professions or graduate school admission. Under the direction of a faculty member, students will complete a capstone course or an internship which will involve reflection and a synthesis of learning to demonstrate achievement of the learning outcomes for the degree.

Total Program Credits: 120

Matriculation Requirements:		
	1. An approved Plan of Study that focuses on the achievement of clearly defined personal, career, or professional goals, as part of the application process for the major.	
	2. Minimum 2.0 grade point average.	
	3. Completed 60 or more semester credit hours.	
General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing	3

Student Leadership and Success Studies

	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or	ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			3
	PHIL 2050	Ethics and Values (3.0)	
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution (Fulfilled with Foreign Language 202G/2020 course)		4
	Fine Arts		3
	Social/Behavioral Science		3
Discipline Core Requirements:			32 Credits
Completion of the area of focus within the Plan of Study that was created during the matriculation process. At least 12 of these 30 credits must be upper-division, including at least one of the following: *			30
	COMM 3000	Media Ethics (3.0) (Cross-listed with PHIL 3010)	
	ENGL 3300	Collaborative Communication for Technology Professions (3.0)	
	HUM 3060	Visual Rhetoric (3.0) (Cross-listed with ENGL 3060)	
	HUM 3500	Approaches to Humanities (3.0)	
	MGMT 3000	Organizational Behavior (3.0)	
	PHIL 3000	Formal Logic II (3.0)	
	PHIL 3400	Philosophy of Science (3.0)	
Complete two credits from the following:			2
	UVST 481R	Internship (1.0)	
	UVST 4930	Capstone (2.0)	
Elective Requirements:			52 Credits

Complete any 1000-level or higher course	40
One Foreign Language (Foreign Language 202G/2020 course fulfills Humanities Distribution)	12

Graduation Requirements:

1. Completion of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. At least 40 credit hours in upper division courses.
5. Complete 16 credit hours of course work from one language to include the 1010, 1020, 2010 and 202G/2020 levels, or transferred equivalents.
6. Completion of General Education requirements.
7. Completion of specific departmental (major) requirements.
8. Completion of Global/Intercultural Requirement course.

Footnote

* If focus area is with the Woodbury School of Business, only 21-24 credits may be used.

University Studies, B.A.

Careers

Careers:

The UVST BA/BS is a degree that does not prepare students for a specific career path; rather it situates graduates for a range of future possibilities and may be less vulnerable to changes in market demand than more traditional degrees in that it focuses on intellectual and integrative learning outcomes that serve individuals well in a variety of careers. Graduates will have a disciplinary focus broader than a single major, but most courses will come from within one of the 8 specific Colleges found at Utah Valley University. This is often beneficial when student interests are varied across a College, or the need for a variety of disciplines would be beneficial to application to professional program such as law or medicine.

As many employers do not require a specific degree, the skills that are established with the completion of a Bachelor's degree allow for potential employees to become capable and adept in skills such as critical thinking, communication, and problem solving. The UVST BA/BS is designed to provide development of these skill sets plus many others, thus increasing the likelihood of employability in a broad range of in-demand professions in today's fast-paced, ever changing economy. Also, many of the students seeking completion of the BA/BS UVST may be in a career path that they find satisfactory and rewarding. This degree provides the opportunity to complete a Bachelor's degree that may not have previously existed for non-traditional students who do not have the luxury of a traditional class schedule. The UVST BA/BS may facilitate advancement for these students who have progressed as far as possible in their chosen career path without a Bachelor's degree.

Related Careers

- Postsecondary Teachers, All Other

University Studies, B.S.

Requirements

The BA/BS is designed to meet the academic and professional objectives of learners whose needs are not addressed through existing degree programs. The degree assists learners in developing essential skills valued by employers and graduate schools (e.g., applied learning, critical thinking, written and oral communication, teamwork, ethical reasoning, and global understanding) within the framework of a larger discipline. Learners will complete a structured yet customized set up upper division courses under the guidance of an advisor and faculty mentor to ensure that standards for academic rigor at the Bachelor level are achieved. Candidates for the degree will focus on intellectual skills and integrative knowledge by enrolling in courses in a general disciplinary area with intentionally-selected, specialized knowledge courses that contribute to an integrated whole, and by completing a capstone experience that further prepares them for their chosen professions or graduate school admission. Under the direction of a faculty member, students will complete a capstone course or an internship

Student Leadership and Success Studies

which will involve reflection and a synthesis of learning to demonstrate achievement of the learning outcomes for the degree.

Total Program Credits: 120

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. An approved Plan of Study that focuses on the achievement of clearly defined personal, career, or professional goals, as part of the application process for the major. 2. Minimum 2.0 grade point average. 3. Completed 60 or more semester credit hours. 		
General Education Requirements:		35 Credits
ENGL 1010	Introduction to Writing	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	
or ENGL 2020	Intermediate Writing--Science and Technology	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		3
PHIL 2050	Ethics and Values (3.0)	
HLTH 1100	Personal Health and Wellness (2.0)	
or PES 1097	Fitness for Life	2
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities		3
Fine Arts		3
Social/Behavioral Science		3
Discipline Core Requirements:		32 Credits
Completion of the area of focus within the Plan of Study that was created during the matriculation process. At least 12 of these 30 credits must be upper-division, including at least one of the following: *		30
COMM 3000	Media Ethics (3.0)	
ENGL 3300	Collaborative Communication for Technology Professions (3.0)	
HUM 3060	Visual Rhetoric (3.0)	

HUM 3500	Approaches to Humanities (3.0)	
MGMT 3000	Organizational Behavior (3.0)	
PHIL 3000	Formal Logic II (3.0)	
PHIL 3400	Philosophy of Science (3.0)	
Complete two credits from the following:		2
UVST 481R	Internship (1.0)	
UVST 4930	Capstone (2.0)	
Elective Requirements:		53 Credits
Complete any 1000-level or higher course, including UVST 1100 Prior Learning Assessment Theory and Practice		53

Graduation Requirements:

1. Completion of 120 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours: minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. At least 40 credit hours in upper division courses.
5. Completion of General Education requirements.
6. Completion of specific departmental (major) requirements.
7. Completion of Global/Intercultural Requirement course.

Footnote
* If focus area is with the Woodbury School of Business, only 21-24 credits may be used.

University Studies, B.S.

Careers

Careers:
The UVST BA/BS is a degree that does not prepare students for a specific career path; rather it situates graduates for a range of future possibilities and may be less vulnerable to changes in market demand than more traditional degrees in that it focuses on intellectual and integrative learning outcomes that serve individuals well in a variety of careers. Graduates will have a disciplinary focus broader than a single major, but most courses will come from within one of the 8 specific Colleges found at Utah Valley University. This is often beneficial when student interests are varied across a College, or the need for a variety of disciplines would be beneficial to application to professional program such as law or medicine. As many employers do not require a specific degree, the skills that are established with the completion of a Bachelor's degree allow for potential employees to become capable and adept in skills such as critical thinking, communication, and problem solving. The UVST BA/BS is designed to provide development of these skill sets plus many others, thus increasing the likelihood of employability in a broad range of in-demand professions in today's fast-paced, ever changing economy. Also, many of the students seeking completion of the BS UVST may be in a career path that they find satisfactory and rewarding. This degree provides the opportunity to complete a Bachelor's degree that may not have previously existed for non-traditional students who do not have the luxury of a traditional class schedule. The UVST BA/BS may facilitate advancement for these students who have progressed as far as possible in their chosen career path without a Bachelor's degree.

Related Careers

- Postsecondary Teachers, All Other

Technology Management

Name:	Technology Management
Location:	GT 616
Telephone:	801-863-8137
Email:	TechManagement@uvu.edu
Web Address:	uvu.edu/tm
Chair:	Anne Arendt

Mission Statement

The mission of the Technology Management department is to provide academic degrees in technical and operations management relevant to the global economy. Our courses provide appropriate knowledge and skills through engaged learning, hands-on activities, scholarship investigation, ethical responsibility, creativity, and lifelong learning. Students will be prepared for professional careers in management and entrepreneurship as well as provided with a strong foundation for advanced academic study. Our graduates will also be prepared to contribute to their employers and communities through leadership, service, and a concern for the environment.

Technology Management

Advisor: Carrie Peterson

- **Telephone:** 801-863-7454
- **Email:** petersca@uvu.edu

DEPARTMENT CHAIR

ARENDR, Anne Associate Professor

FACULTY

ALIN, Pauli Assistant Professor

ARENDR, Anne Associate Professor

HANEWICZ, Cheryl Professor

ILIKCHYAN, Armen Assistant Professor

MERRILL, Kyle Lecturer

THACKERAY, Susan Assistant Professor

TREGO, Angela Assistant Professor

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Degrees & Programs

Technology, A.A.S.

Requirements

The Associate in Applied Science in Technology has been designed for individuals working in a technical area who have considerable work experience and/or have obtained specialized certifications, licenses, apprenticeships, etc. Many of these students will be looking for a degree to allow them better upward mobility in their professions or education to help them become entrepreneurs. Students initially take a class to develop a portfolio that presents licenses and work-related certifications as well as provides a rationale for receiving technical, experiential credit. Core courses provide fundamental knowledge of contemporary technologies, and elective courses allow students to enhance their technical skills in one or more technical areas. A supervisory course is also required so students can learn to manage workers in technology-driven organizations.

[Online Degree Plan](#)

Total Program Credits: 63

General Education Requirements:		16 Credits
ENGL 1010	Introduction to Writing	3
Complete one of the following:		
EGDT 1600	Technical Math--Algebra	3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0) (Recommended for students intending to continue on to the BS Degree in Technology Management)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Biology / Physical Science		3
Health / PE / Safety / Environment		1
Humanities / Fine Arts		3
Social/Behavioral Science (TECH 200G recommended)		3
Discipline Core Requirements:		23 Credits
TECH 1000	Experiential Credit Portfolio Development and Assessment	2
or	This requirement may be satisfied by R473 Matriculation Agreement. (2)	
TECH 110R	Technical Experiential Credit	6
or	This requirement may be satisfied by R473 Matriculation Agreement. (6)	
TECH 1010	Understanding Technology	3
INFO 2100	Computer Proficiency for Technology Professionals	3
or	IM 2010 Business Computer Proficiency	
TECH 2010	Supervision in Technology	3
Technical Area Credits - With advisor approval, students must select a minimum of 6 credits. See catalog for 2-year AAS programs for course selections.		6
or	This requirement may be satisfied by R473 Matriculation Agreement. (6)	
Elective Requirements:		24 Credits
Students must select a minimum of 24 credits of electives from the following or other advisor approved course work:		24
TECH 110R	Technical Experiential Credit (1.0)	
Additional Technical Area credits as approved by Advisor.		
ANTH 101G	Social/Cultural Anthropology (3.0)	
BIOL 1010	General Biology (3.0)	
BIOL 1015	General Biology Laboratory (1.0)	
BIOL 1070	Heredity (3.0)	
CHEM 1010	Introduction to Chemistry (3.0)	
CHEM 1110	Elementary Chemistry for the Health Sciences (4.0)	
CHEM 1115	Elementary Chemistry Laboratory (1.0)	

Technology Management

SLSS 1000	University Student Success (3.0)	
SLSS 1200	The 7 Habits of Highly Effective People (3.0)	
COMM 1050	Introduction to Speech Communication (3.0)	
COMM 1500	Introduction to Mass Communication (3.0)	
COMM 3030	Mass Communication and Society (3.0)	
ENGR 1000	Introduction to Engineering (3.0)	
ENVT 1110	Introduction to Environmental Management (3.0)	
ENVT 1510	Hazardous Materials Emergency Response (3.0)	
ENVT 2600	Skills for Humanitarian Projects (3.0)	
GEO 1010	Introduction to Geology (3.0)	
GEO 1015	Introduction to Geology Laboratory (1.0)	
MAT 1010	Intermediate Algebra (4.0)	
PHSC 1000	Survey of Physical Science (3.0)	
PHYS 1010	Elementary Physics (3.0)	
PHYS 3800	Energy use on Earth (3.0)	
TECH 290R	Current Topics in Technology (3.0)	
Foreign Language Credits - Students may select up to 10 credits of a foreign language		
Sixteen (16) credits may be satisfied by R473 Matriculation Agreement.		

Graduation Requirements:

1. Complete a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours - minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements
5. This degree MAY apply toward the BS in Technology Management, if the majority of course work is in a related technical area, and has been approved by the department to be used toward the BSTM.

Technology, A.A.S. Careers

Technology, A.A.S. Careers

Advanced Manufacturing, Certificate of Proficiency Requirements

The Certificate of Proficiency in Advanced Manufacturing is designed to provide entry-level manufacturing technician skills that are needed in expanding the manufacturing industry in Utah Valley. Although the term "advanced" might be confusing for a program providing entry-level skills, nationally this is the term that is being used. The program focuses on the basic skills used in advanced manufacturing processes expanding across the nation. The components of the certificate will include basic manufacturing skills with hands-on activities on equipment used in local facilities. Graduates of this certificate will have a basic understanding of advanced manufacturing operations with an emphasis on solving problems in the organization. While this program offers an entry-level certification for individuals pursuing a career in manufacturing, it has been designed to enable individuals the opportunity to continually expand and upgrade their applied skills as well as to maintain a thorough mastery of evolving manufacturing technologies.

Total Program Credits: 18

Discipline Core Requirements:			18 Credits
TECH 1050	Manufacturing Processes and Systems		3
TECH 2050	Introduction to Quality Management		3
TECH 2010	Supervision in Technology		3
INFO 2100	Computer Proficiency for Technology Professionals		3
TECH 1000	Experiential Credit Portfolio Development and Assessment (2.0)		
or TECH 281R	Internship in Technology		1
STAT 1040	Introduction to Statistics		3
or STAT 1045	Introduction to Statistics with Algebra (5.0)		
or EGD 1600	Technical Math--Algebra (3.0)		
EGDT 1000	Introduction to Engineering Drawing and Technical Design		2
or EGD 1071	3 Dimensional Modeling--Solidworks (3.0)		

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 5 credit hours through course attendance at UVU.

Advanced Manufacturing, Certificate of Proficiency Careers

Today's businesses and industries are demanding employees with strong business process improvement capabilities. Companies are operating in more dynamic and competitive work environments. A Six Sigma Green Belt Certificate prepares graduates for a multitude of professional careers, including the following: general management; quality control and assurance; production processing; research and development; advanced manufacturing; reliability and safety; and project management.

Related Careers

- Industrial Engineering Technicians

Six Sigma Green Belt, Certificate of Proficiency Requirements

The Six Sigma Green Belt Certificate at UVU demonstrates knowledge in quality improvement and elimination of waste or defects in production processes. It can be utilized in every aspect of business such as production, human resources, information technology, and customer service. This certificate is built into the curriculum of the Bachelor of Science in Technology Management program. Students who complete this credential have high-demand, industry-recognized skill sets.

[Online Degree Plan](#)

Total Program Credits: 27

Matriculation Requirements:		
1. University Advanced Standing		
Discipline Core Requirements:		27 Credits
TECH 3000	Introduction to Technology Management	3
TECH 3010	Creativity Innovation and Change Management	
or ENTR 3170	Entrepreneurship	3
TECH 3400	Project Management	3

	TECH 3700	Materials Management	
or	MGMT 3470	Lean Management Systems	3
	TECH 3850	Quality Management in Technology	
or	MGMT 3070	Total Quality Management	3
	TECH 4000	Reliability Engineering and Safety	3
	TECH 4400	Advanced Project Management	
or	MGMT 3450	Operations Management	3
	TECH 4910	Senior Capstone Project	3
Complete one of the following for 3 credits			3
	ACC 2020	Managerial Accounting	
	ACC 3000	Financial Managerial and Cost Accounting Concepts	
	STAT 1040	Introduction to Statistics	
	STAT 2040	Principles of Statistics	
	STAT 3040	Probability and Statistics for Engineering and the Sciences	
	MGMT 2240	Business Calculus	
	MGMT 2340	Business Statistics I	

Graduation Requirements:

1. Completion of a minimum of 27 credits.
2. Overall grade point average of 3.0 (B) or above. Students must complete each course with a grade "B" or higher.
3. Residency hours -- minimum of 7 credit hours through course attendance at UVU.

Six Sigma Green Belt, Certificate of Proficiency Careers

Today's businesses and industries are demanding employees with strong business process improvement capabilities. Companies are operating in more dynamic and competitive work environments. A Six Sigma Green Belt Certificate prepares graduates for a multitude of professional careers, including the following: general management; quality control and assurance; production processing; research and development; advanced manufacturing; reliability and safety; and project management.

Related Careers

- Computer and Information Systems Managers
- Industrial Production Managers
- Construction Managers
- Logisticians
- Business Teachers, Postsecondary
- First-Line Supervisors of Mechanics, Installers, and Repairers
- First-Line Supervisors of Production and Operating Workers

Technology Management, Minor Requirements

The Technology Management Minor will provide students the opportunity to explore many aspects of technology management, including project management, quality assurance, and creativity, as well as become more aware of the issues surrounding technology. This background will also benefit such students in their quest for employment, since project management and its related skills are highly sought after by employers.

Total Program Credits: 21

Discipline Core Requirements:			15 Credits
	TECH 3000	Introduction to Technology Management	3
	TECH 3400	Project Management	3

	TECH 3850	Quality Management in Technology	3
	TECH 4000	Reliability Engineering and Safety	3
	TECH 4420	Organization Information Technologies	3
Elective Requirements:			6 Credits
Select 6 credits from the following:			6
	TECH 3010	Creativity Innovation and Change Management (3.0)	
	TECH 3700	Materials Management (3.0)	
	TECH 405G	Global Ethical and Professional Issues in Technology (3.0)	
	TECH 4200	Technology Marketing and Customer Relationship Management (3.0)	
	TECH 4400	Advanced Project Management (3.0)	
	TECH 497R	Independent Study (1.0)	

Technology Management, Minor Careers

Technology Management, Minor Careers

Related Careers

- Computer and Information Systems Managers
- Industrial Production Managers
- Construction Managers
- Logisticians
- Business Teachers, Postsecondary
- First-Line Supervisors of Mechanics, Installers, and Repairers
- First-Line Supervisors of Production and Operating Workers

TM Emphasis in Art and Design

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:			45 Credits
Complete the following:			
	ART 1120	2D Design	3
	ART 1400	Graphic Computer Applications	3
	ART 1110	Drawing I	3
Complete an additional 36 credits from the AVC courses.			36

TM Emphasis in Automotive Technology Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:			45 Credits
	AUT 1110	Brake Systems	2
	AUT 111L	Brake Systems Lab	1
	AUT 1120	Manual Power Trains	2
	AUT 112L	Manual Power Trains Lab	1

Technology Management

AUT 1130	Engine Repair	2
AUT 113L	Engine Repair Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
AUT 1220	Automatic Transmissions and Transaxles	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2
AUT 123L	Engine Performance Lab	1
AUT 2110	Advanced Steering Suspension and Alignment	2
AUT 2120	Advanced Engine Performance	2
AUT 2130	Advanced Emission Control Systems	2
AUT 2140	Chassis Electrical and Electronics Systems	2
AUT 2210	Advanced Braking and Control Systems	2
AUT 2220	Automatic Transmissions and Electronic Controls	2
AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 2250	Electronic Fuel Management Systems (2.0)	
or AUT 2350	Electronic Diesel Fuel Management Systems	2
Complete 5 credits from the following:		5
AUT 201L	Automotive Service Practicum Engine Performance and Steering Suspension (2.0)	
AUT 202L	Automotive Service Practicum Emission Controls and Chassis Electronics (2.0)	
AUT 203L	Automotive Service Practicum Brake Systems and Transmission Controls (2.0)	
AUT 204L	Automotive Service Practicum Fuel Management Systems and HVACR (2.0)	
AUT 281R	Cooperative Work Experience (1.0)	

TM Emphasis in Aviation Science

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		36 Credits
AVSC 1010	Survey of Aviation Science	2
AVSC 1050	Introduction to Aviation Administration	3
AVSC 1100	Ground Private Pilot	4
AVSC 1110	Flight Private Pilot Certification	3
AVSC 1230	Flight Cross Country	2
AVSC 1240	Ground Instrument Pilot	4
AVSC 1250	Flight Instrument Pilot	3

AVSC 1260	21st Century Avionics and Instrumentation	1
AVSC 2150	Air Transportation Management	3
AVSC 2160	Aviation Law	3
AVSC 2300	Ground Commercial Pilot	3
AVSC 2310	Flight Commercial Pilot	3
AVSC 2440	Ground Multi-Engine	1
AVSC 2450	Flight Multi-Engine	1
Elective Requirements:		9 Credits
Complete 9 credits from the following:		9
AVSC 2400	Ground Certified Flight Instructor (4.0)	
AVSC 2410	Flight Certified Flight Instructor (1.0)	
AVSC 2420	Ground CFI Instrument (1.0)	
AVSC 2430	Flight CFI Instrument (1.0)	
AVSC 2500	Ground Multi-Engine Instructor (1.0)	
AVSC 2510	Flight Multi-Engine Instructor (1.0)	
AVSC 3060	Airline Management (3.0)	
AVSC 3090	Airline and Dispatch Operations (3.0)	
AVSC 3120	Airport Management (3.0)	
AVSC 3210	Aircraft Incident and Emergency Management (3.0)	
AVSC 410G	Global Ethical and Professional Issues in Aviation (3.0)	
AVSC 475R	Current Topics in Aviation (1.0)	

Graduation Requirements:

- Students should take no more than 4 credit hours of aviation co-op (AVSC 281R/285R/481R/485R) toward the aviation elective section of the Technology Management degree.

TM Emphasis in Building Inspection Technology

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Matriculation Requirements:		
1. CMGT 1150 Construction Safety (2.0)		
Discipline Core Requirements:		45 Credits
BIT 1010	Building Codes	3
BIT 1170	Field Lab--Building Codes	1
BIT 1230	Plan Review	3
BIT 1240	Plumbing Codes	3
BIT 1330	Mechanical Codes	3
or CMGT 3020	Building Envelopes and Mechanical Systems (3.0)	
BIT 1340	Electrical Codes	3
BIT 1380	Ride-Along Lab	1
EGDT 1020	3D Architectural Modeling	3

	EGDT 1400	Surveying	3
	STAT 1040	Introduction to Statistics	3
	CMGT 1010	Introduction to Construction Management	3
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 2010	Construction Materials and Methods II	3
	CMGT 1190	Concrete and Framing Lab	3
and	CMGT 1220	Finishing Lab	3
	CMGT 3010	Construction Materials Testing	3
	CMGT 399R	Student Professional Organization	1

TM Emphasis in Cabinetry and Architectural Woodwork

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		45 Credits	
Complete 45 credits from the following:		45	
	CAW 140R	Millwork Technology (4.0)	
	CAW 140R	Millwork Technology (4.0)	
	CAW 140R	Millwork Technology (4.0)	
	CAW 140R	Millwork Technology (4.0)	
	CAW 1130	Residential Cabinetry (4.0)	
	CAW 1150	Design Drafting and Billing (3.0)	
	CAW 1170	Finish Technology (2.0)	
	CAW 1210	Cabinetmaking Materials and Hardware (1.0)	
	CAW 1250	Drafting and Computer Applications for Cabinetmakers (4.0)	
	CAW 2250	Computer Aided Manufacturing for Woodworking (4.0)	
	CAW 2300	Counter-top Technology (3.0)	
	CAW 2310	Cabinetry Math (2.0)	
	CAW 2430	Commercial Cabinetry Technology (4.0)	
	CAW 2450	Machine Maintenance and Upkeep (2.0)	
	CAW 299R	Skills USA (1.0)	
	EGDT 1040	Computer Aided Drafting--AutoCAD (3.0)	

TM Emphasis in Collision Repair Technology

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		45 Credits	
	AUT 1160	Automotive Electrical Systems	2
	AUT 116L	Automotive Electrical Systems Lab	1

	AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
	AUT 224L	Automotive HVAC Lab	1
	CRT 1110	Surface Preparation	2
	CRT 111L	Surface Preparation Lab	1
	CRT 1120	Nonstructural Repair	2
	CRT 112L	Nonstructural Repair Lab	1
	CRT 1130	Overall Refinishing and Problem Solving	2
	CRT 113L	Overall Refinishing and Problem Solving Lab	1
	CRT 1140	Panel Replacement and Adjustment	2
	CRT 114L	Panel Replacement and Adjustment Lab	1
	CRT 1210	Blending Tinting and Detailing	2
	CRT 121L	Blending Tinting and Detailing Lab	1
	CRT 1230	Welding and Cutting	2
	CRT 123L	Welding and Cutting Lab	1
	CRT 2310	Collision Damage Reporting	2
	CRT 231L	Collision Damage Reporting Lab	1
	CRT 2320	Structural Damage Analysis	2
	CRT 232L	Structural Damage Analysis Lab	1
	CRT 2330	Structural Repair	2
	CRT 233L	Structural Repair Lab	1
	CRT 2340	Full and Partial Panel Replacement	2
	CRT 234L	Full and Partial Panel Replacement Lab	1
	CRT 2400	Plastic Paintless Dent Repair	2
	CRT 240L	Plastic Paintless Dent Repair Lab	1
	CRT 2440	Mechanical Advanced Vehicle Systems	2
	CRT 244L	Mechanical Advanced Vehicle Systems Lab	1
	CRT 2450	Bags Brakes Steering	2
	CRT 245L	Bags Brakes Steering Lab	1

TM Emphasis in Construction Management

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		45 Credits	
	BIT 1020	Residential Codes	3
or	BIT 1010	Building Codes (3.0)	
	EGDT 1020	3D Architectural Modeling	3
	EGDT 1400	Surveying	3
	CMGT 1010	Introduction to Construction Management	3
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 1150	Construction Safety	2
	CMGT 2010	Construction Materials and Methods II	3
	CMGT 3000	Principles of Construction Scheduling	3
	CMGT 3010	Construction Materials Testing	3

Technology Management

CMGT 3020	Building Envelopes and Mechanical Systems	3
CMGT 3030	Principles of Construction Estimating	3
CMGT 3040	Construction Job Site Management	3
CMGT 3060	Applied Statics and Strength of Materials	3
CMGT 3160	Building Information Modeling	3
CMGT 399R	Student Professional Organization	1
CMGT 4010	Construction Contracts	3

TM Emphasis in Diesel Mechanics Technology

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 48

Discipline Core Requirements:		48 Credits
DMT 1110	Diesel Engine Overhaul	4
DMT 111L	Diesel Engine Overhaul Lab	2
DMT 1120	Diesel Engine Operation/Tune Up	4
DMT 112L	Diesel Engine Operation/Tune-up Lab	2
DMT 1510	Electrical Systems Theory	4
DMT 151L	Electrical Systems Lab	2
DMT 1520	Engine Electronics and Diagnostics Theory	4
DMT 152L	Engine Electronics and Diagnostics	2
DMT 2230	Heating Ventilation Air Conditioning and Refrigeration Theory	2
DMT 223L	Climate Control Lab	1
DMT 2310	Fluid Power Theory	4
DMT 231L	Fluid Power Lab	2
DMT 2320	Fluid Power Transmission Theory	2
DMT 232L	Fluid Power Transmission Lab	1
DMT 2410	Chassis Theory	4
DMT 241L	Chassis Lab	2
DMT 2420	Power Trains Theory	4
DMT 242L	Power Trains Lab	2

TM Emphasis in Digital Media

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		17 Credits
Complete the following:		
DGM 1110	Digital Media Essentials I	4
DGM 2110	Digital Motion Picture Essentials	3
DGM 2120	Web Essentials	3
DGM 2130	Digital Audio Essentials	3

DGM 2210	3D Modeling and Animation Essentials	4
Elective Requirements:		28 Credits
Complete 28 credits from approved DGM electives (see advisor)		28

TM Emphasis in Electrical Automation and Robotics Technology

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		44 Credits
EART 1130	Basic Electrical Theory for EART Technicians	4
EART 1050	Applied Electrical Math For EART Technicians	5
EART 1180	Basic Electrical Lab for EART Technicians	5
EART 1280	DC and AC Machines for EART Technicians	5
EART 1285	DC and AC Machines Lab for EART Technicians	4
EART 2110	Industrial Electronics for EART Technicians I	6
EART 2150	Industrial Hydraulics and Pneumatics	3
EART 2160	Industrial Electronics for EART Technicians II	5
EART 2250	Industrial Programmable Logic Controllers--PLC's	5
EGDT 1000	Introduction to Engineering Drawing and Technical Design	2
Elective Requirements:		1 Credits
Electives in EART based on chosen option (students must see advisor for list of approved course options).		1

TM Emphasis in Emergency Services

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		45 Credits
Any Emergency Services advisor approved courses.		45

TM Emphasis in Engineering Design Technology

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:		45 Credits
Complete the following:		
EGDT 1010	Electrical-Electronic Drafting	3

	EGDT 1020	3D Architectural Modeling	3
	EGDT 1040	Computer Aided Drafting--AutoCAD	3
	EGDT 1070	3 Dimensional Modeling--Inventor	3
or	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)	
	EGDT 1100	Architectural Drafting	3
	EGDT 1200	Mechanical Drafting	3
	EGDT 1300	Structural Drafting	3
	EGDT 1400	Surveying Applications and Field Techniques I	3
	EGDT 2020	Descriptive Geometry	3
	EGDT 2040	Piping Drafting	2
	EGDT 2050	Plate Layout	2
	EGDT 2600	Statics	3
	EGDT 2610	Strength of Materials	3
	Complete a minimum of 8 credits from the following:		8
	EGDT 1050	Introduction to 3D Printing (2.0)	
	EGDT 1060	MicroStation (2.0)	
	EGDT 1080	AutoLisp (2.0)	
	EGDT 1090	Introduction to Architectural Drafting and Design (2.0)	
	EGDT 2010	Advanced Electrical--CAD (2.0)	
	EGDT 2100	Advanced Architectural (3.0)	
	EGDT 2200	Advanced Mechanical (3.0)	
	EGDT 2300	Advanced Structural--CAD (3.0)	
	EGDT 2310	Structural Steel Modeling (3.0)	
	EGDT 2400	Surveying Applications and Field Techniques II (3.0)	
	EGDT 3500	Advanced Civil Drafting and Design (3.0)	

TM Emphasis in Facilities Management

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:			45 Credits
	BIT 1010	Building Codes	3
	BIT 1230	Plan Review	3
	CMGT 1150	Construction Safety	2
	CMGT 281R	Internship	4
	CMGT 3000	Principles of Construction Scheduling	3
	CMGT 3020	Building Envelopes and Mechanical Systems	3
	CMGT 3030	Principles of Construction Estimating	3
	CMGT 3160	Building Information Modeling	3
	EGDT 1020	3D Architectural Modeling	3
	EGDT 1600	Technical Math--Algebra	3
	FAC 1010	Survey of Facilities Management	3
	LEGL 3130	Real Estate Principles and Finance	3

	LEGL 3140	Real Estate Law	3
	MKTG 2200	Written Business Communication	3
	MGMT 3000	Organizational Behavior	3

TM Emphasis in Information Systems and Technology

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:			36 Credits
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3
	IT 1510	Introduction to System Administration--Linux/UNIX	3
	INFO 2200	Computer Programming II for IS/IT	3
	INFO 2410	Database Fundamentals	3
	INFO 2420	Web Application Design	3
	IT 2600	Data Communication Fundamentals	3
	IT 2700	Information Security Fundamentals	3
	INFO 3410	Database Systems and Warehousing	3
	INFO 3430	Systems Analysis and Design	3
	IT 3600	Internetworking and Router Management	3
	INFO 4430	Systems Design and Implementation (3.0)	3
Elective Requirements:			9 Credits
Complete a minimum of 9 credits from the following:			9
	IM 2010	Business Computer Proficiency (3.0)	
	IT 2400	Voice and Data Cabling Fundamentals (3.0)	
	IT 2530	Introduction to System Administration--Windows Client (3.0)	
	IT 2700	Information Security Fundamentals (3.0)	
	IT 2800	Computer Forensic Fundamentals (3.0)	
	COMP 301R	Digital Lecture Series (1.0)	
	INFO 3130	Introduction to Applied Data Analytics (3.0)	
	INFO 3420	Web Systems Development (3.0)	
	IT 3510	Advanced System Administration--Linux/UNIX (3.0)	
	IT 3530	Advanced System Administration--Windows Server (3.0)	
	IT 3650	Information Storage and Management (3.0)	
	IT 3700	Information Security--Network Defense and Countermeasures (3.0)	
	INFO 4410	Database Administration (3.0)	
	INFO 4415	Database Security and Auditing (3.0)	
	INFO 4425	Web Application Security (3.0)	
	Any approved Accounting- or Business-related Course up to 6 credits		

Technology Management

TM Emphasis in Integrated Technology

Requirements

For a complete list of program requirements see the [BS Technology Management](#).

Total Program Credits: 45

Discipline Core Requirements:	45 Credits
Completion of 45 credits from a single technical area or two related technical areas as approved by the Technology Management advisor. Credits must be earned through a recognized accredited institution. Possible Technical Areas may include:	45
Art & Visual Communication	
Graphic Communications	
Photography	
Visual Arts	
Automotive Technology	
Collision Repair	
Diesel Equipment	
Aviation	
Construction Technologies	
Building Construction	
Building Inspection	
Cabinetry	
Carpentry	
Drafting	
Facilities Management	
HVAC	
Masonry	
Mechanics	
Plumbing	
Surveying	
Welding	
Computing/Digital Technologies	
Broadcasting	
Computer Science	
Computer Support	
Digital Media	
Internetworking	
Information Systems	
Office Technology	
Technical Computer Applications	
Web Design	
Electronics Technology	
Electrical Automation	
Electrician	

Industrial Motor Controls	
Lineman Technology	
Residential Wiring	
Manufacturing Technology	
Robotics	
Environmental Technology	
Machinist	
Materials Science	
Operations Technology	
Power Equipment Technology	
Precision Machinery	
Technical Drafting	
Medical Technologies	
Biotechnology Technician	
Culinary Arts	
Dental Hygiene	
Health Care	
Medical Coding and Billing	
Occupational Therapy	
Pharmacy Technician	
Physical Therapy	
Radiology Technology	
Public Service Technologies	
Criminal Justice	
Firefighting	
Paralegal	

Technology Management, B.S.

Requirements

The Bachelor of Science in Technology Management has a multidisciplinary focus and is designed for students who want to develop leadership and management skills within their technical area or combination of related areas. Students may enter the program with (1) an Associate in Applied Science degree in an approved technical area, (2) an Associate of Science degree containing at least 45 credit hours in an approved technical specialty, or (3) an approved technical specialty containing courses from related areas. Students have the options of earning a Six-Sigma Green Belt certification, completing Center for Advancement in Leadership certification, and preparing for Project Management Institute (PMI) exams.

[Online Degree Plan](#)

Total Program Credits: 123

Matriculation Requirements:	45 Credits
Students must complete 45 technical credits (see list below)	45
1. See specific Technical Area for the 45 credit requirement. Or See Technology Management Emphasis in Integrated Technology	
General Education Requirements:	35 Credits
ENGL 1010 Introduction to Writing	3

	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	STAT 1040	Introduction to Statistics	3
or	STAT 1045	Introduction to Statistics with Algebra (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			28 Credits
Meet with Technology Management advisor to complete a degree plan prior to enrollment in Technology Management courses.			
	TECH 3000	Introduction to Technology Management	3
	TECH 3010	Creativity Innovation and Change Management	3
or	ENTR 3170	Entrepreneurship (3.0)	
	TECH 3400	Project Management	3
	TECH 3850	Quality Management in Technology	3
	TECH 405G	Global Ethical and Professional Issues in Technology	3
	TECH 4420	Organization Information Technologies	3
	TECH 4910	Senior Capstone Project	3
	ACC 3000	Financial Managerial and Cost Accounting Concepts	3
	HR 3430	Introduction to Human Resource Management	3
	TECH 301R	Technology Lecture Series	1
Business Computer Proficiency			
or	INFO 2100	Computer Proficiency for Technology Professionals (3.0)	
or	IM 2010	Business Computer Proficiency (3.0)	
Elective Requirements:			15 Credits
Complete 15 credits from the following:			15
	TECH 3700	Materials Management (3.0)	
	TECH 4000	Reliability Engineering and Safety (3.0)	

	TECH 4200	Technology Marketing and Customer Relationship Management (3.0)	
	TECH 4400	Advanced Project Management (3.0)	
	TECH 481R	Internship (1.0)	
	TECH 489R	Undergraduate Research in Technology Management (1.0)	
	TECH 490R	Current Topics in Technology Management (3.0)	
	TECH 497R	Independent Study (1.0)	
	LEGL 3000	Business Law (3.0)	
	ENGL 3300	Collaborative Communication for Technology Professions (3.0)	
	MGMT 3470	Lean Management Systems (3.0)	
Up to 6 credits toward Leadership Certification with the Center for the Advancement of Leadership			
Students may select up to 9 credits of other upper division technology related courses with advisor approval.			

Graduation Requirements:

1. Completion of a minimum of 123 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. No grade lower than a C- in any TECH course.
4. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Note: No upper-division Technology Management (i.e., Technology Management or Business Management) course work older than six years can be counted toward graduation.

[TM Emphasis in Art and Design](#)
[TM Emphasis in Automotive Technology](#)
[TM Emphasis in Aviation Science](#)
[TM Emphasis in Building Inspection Technology](#)
[TM Emphasis in Cabinetry and Architectural Woodwork](#)
[TM Emphasis in Collision Repair Technology](#)
[TM Emphasis in Construction Management](#)
[TM Emphasis in Diesel Mechanics Technology](#)
[TM Emphasis in Digital Media](#)
[TM Emphasis in Electrical Automation and Robotics Technology](#)
[TM Emphasis in Engineering Design Technology](#)
[TM Emphasis in Emergency Services](#)
[TM Emphasis in Facilities Management](#)
[TM Emphasis in Information Systems and Technology](#)
[TM Emphasis in Integrated Technology](#)

Technology Management, B.S. Careers

Technology Management, B.S. Careers

Related Careers

- Computer and Information Systems Managers
- Industrial Production Managers
- Construction Managers
- Logisticians
- Business Teachers, Postsecondary
- First-Line Supervisors of Mechanics, Installers, and Repairers
- First-Line Supervisors of Production and Operating Workers

Theatrical Arts for Stage and Screen

Name:	Theatrical Arts for Stage & Screen
Location:	FA 707
Telephone:	801-863-8071
Email:	kinglo@uvu.edu
Web Address:	uvu.edu/theatre/
Chair:	Lisa Hall Hagen

Mission Statement

The Department of Theatrical Arts at Utah Valley University is an engaged training ground that cultivates and challenges driven and versatile individuals to become artistically and professionally literate. To deliver this outcome, we practice collaborative learning in the history, genres, methods, and technologies in the field of theatre, as well as sincere and responsive mentorship and innovative productions.

Theatrical Arts for Stage & Screen

Program Coordinator Contact:

- Laurie Harrop-Purser, Performance
- **Telephone:** 801-863-6310
- **Email:** Harrop-Purser@uvu.edu
- Lara Beene, Design and Technology
- **Telephone:** 801-863-6273
- **Email:** beenela@uvu.edu
- Amanda Crabb, BFA Performance Committee
- **Telephone:** 801-863-6756
- **Email:** acrabb@uvu.edu
- D. Terry Petrie, Theatre Secondary Education
- **Telephone:** 801-863-7222
- **Email:** petriedt@uvu.edu

Advisors:

Elizabeth Draper: BFA Programs, AS, Minor

Kristy Giles: BA Theatre Program

Clark Slater: Theatre Education

All students are welcome to see any advisor in the School of the Arts for more information. Their scheduling and drop-in hours can be found here: www.uvu.edu/arts/advisors/

Administrative Support:

- Loretta King
- **Telephone:** 801-863-6939
- **Email:** kinglo@uvu.edu
- **Mail Stop:** 234

Staff:

Program Director, Noorda Theatre Center for Children and Youth: John Newman
 Outreach Coordinator, Noorda Theatre Center for Children and Youth: Kynsie Kiggins

Administrative Support, Noorda Theatre Center for Children and Youth: Anna Kelsey

DEPARTMENT CHAIR

HAGEN, Lisa *Associate Professor*

FACULTY

BEENE, Lara A. *Assistant Professor*

CLARK, Christopher *Associate Professor*

CRABB, Amanda *Assistant Professor*

GOLDEN, Elizabeth *Lecturer*

HAGEN, Lisa *Associate Professor*

HARROP-PURSER, Laurie *Assistant Professor*

KNIGHTON, Janine Sobeck *Assistant Professor*

MOFFAT, Robert *Lecturer*

MOODY, Richard L. *Associate Professor*

NEWMAN, John *Assistant Professor*

PETRIE, Terry *Professor*

PURDY, Stephen *Lecturer*

ROBINSON, Jill *Lecturer*

SORTORE, Jeremy *Assistant Professor*

TAYLOR, Matthew A. *Assistant Professor*

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Degrees & Programs

Theatre Arts, A.A.

Requirements

The AA and AS in Theatre Arts provide students with basic training in theatre arts. The department offers associate degree students beginning courses in acting, stagecraft, script and text analysis, theatre for children and youth, theatrical design, and directing.

Total Program Credits: 63

General Education Requirements:			35 Credits
ENGL 1010	Introduction to Writing (3.0)		3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)		3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)		
Complete one of the following:			3
MAT 1030	Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors)		
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)		
STAT 1040	Introduction to Statistics (3.0) (recommended for Social Science majors)		
STAT 1045	Introduction to Statistics with Algebra (5.0)		
MATH 1050	College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors)		
MATH 1055	College Algebra with Preliminaries (5.0)		
MATH 1090	College Algebra for Business (3.0) (recommended for Business Majors)		
Complete one of the following:			3

	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values (3.0)	3
	HLTH 1100	Personal Health and Wellness (2.0)	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology- Choose from Distribution List		3
	Physical Science- Choose from Distribution List		3
	Additional Biology or Physical Science- Choose from Distribution List		3
	Humanities - Choose from Distribution List		4
	THEA 1013	Introduction to Theatre (3.0)	3
	Social/Behavioral Science- Choose from Distribution List		3
Discipline Core Requirements:			20 Credits
Complete the following:			
	THEA 1033	Acting I	3
	THEA 1513	Stagecraft I	3
	THEA 1514	Stagecraft I Lab	1
	THEA 1713	Script and Text Analysis I	3
	THEA 2211	Theatre for Children and Youth	3
	THEA 2513	Introduction to Design for Stage and Screen	3
	THEA 2514	Introduction to Design for Stage and Screen Lab	1
	THEA 3611	Directing Actors for the Stage and Screen	3
Elective Requirements:			8 Credits
	Two courses in the same foreign language		8

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.5 (C+) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Theatre Arts, A.A.

Careers

Careers:
The AA and AS degrees in Theatre Arts provide students with skills needed for many professional entry level positions. Associate degrees in Theatre Arts develop interpersonal communication, the ability to work effectively in groups, the capability of solving problems, and the creative thinking that employers are demanding.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Theatre Arts, A.S.

Requirements

The AA and AS in Theatre Arts provide students with basic training in theatre arts. The department offers associate degree students beginning courses in acting, stagecraft, script and text analysis, theatre for children and youth, theatrical design, and directing.

Total Program Credits: 63

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing (3.0)	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (recommended for Humanities or Arts majors) (3.0)	
	MAT 1035	Quantitative Reasoning (6.0)	
	STAT 1040	Introduction to Statistics (recommended for Social Science majors) (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (recommended for Business, Education, Science, and Health Professions majors) (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (recommended for Business majors) (3.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values (3.0)	3
	HLTH 1100	Personal Health and Wellness (2.0)	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology - Choose from Distribution List		3
	Physical Science - Choose from Distribution List		3
	Additional Biology or Physical Science - Choose from Distribution List		3
	Humanities - Choose from Distribution List		3
	THEA 1013	Introduction to Theatre (3.0)	3
	Social/Behavioral Science - Choose from Distribution List		3
Discipline Core Requirements:			20 Credits
Complete the following:			
	THEA 1033	Acting I	3
	THEA 1513	Stagecraft I	3
	THEA 1514	Stagecraft I Lab	1

Theatrical Arts for Stage and Screen

	THEA 1713	Script and Text Analysis I	3
	THEA 2211	Theatre for Children and Youth	3
	THEA 2513	Introduction to Design for Stage and Screen	3
	THEA 2514	Introduction to Design for Stage and Screen Lab	1
	THEA 3611	Directing Actors for the Stage and Screen	3
Elective Requirements:			8 Credits
	Select any THEA course(s) 1000 level or higher for a total of 8 credits		8

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.5 (C+) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Theatre Arts, A.S.

Careers

Careers:
The AA and AS degrees in Theatre Arts provide students with skills needed for many professional entry level positions. Associate degrees in Theatre Arts develop interpersonal communication, the ability to work effectively in groups, the capability of solving problems, and the creative thinking that employers are demanding.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Theatre Arts, Minor

Requirements

The minor in Theatre Arts serves as a supplement to students from all other disciplines to pursue their interest and cultivate their talents in theatre while pursuing a major in a high-demand field. It also helps secondary education majors in other subject areas to qualify students for a teaching endorsement in theatre. English teaching majors frequently complete a minor in theatre to enrich their teaching of plays and to help prepare them to qualify for an additional subject endorsement in theatre.

Total Program Credits: 23

Matriculation Requirements:			
1. Admitted to a bachelor degree program at UVU.			
Discipline Core Requirements:			23 Credits
Complete the following courses:			
	THEA 1013	Introduction to Theatre	3
	THEA 1033	Acting I	3
	THEA 1513	Stagecraft I	3
	THEA 1514	Stagecraft I Lab	1
	THEA 1713	Script and Text Analysis I	3
	THEA 2513	Introduction to Design for Stage and Screen	3
	THEA 2514	Introduction to Design for Stage and Screen Lab	1
	THEA 2741	Scriptwriting I	3

	THEA 3561	Stage Management I	3
or	THEA 3611	Directing Actors for the Stage and Screen (3.0)	

Graduation Requirements:

1. Complete all theatre courses with a grade of C- or better.

Theatre Arts, Minor Careers

Careers:
Employers and graduate programs value minors in the arts including theatre. A minor in theatre suggests that the recipient is well-rounded in his or her training and has acquired skills in communications and human relations. It also allows majors in other fields to gain the necessary skills to pursue a serious avocation in theatre.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Theatre Arts - Acting Emphasis, B.F.A.

Requirements

In the Bachelor of Fine Arts program, Acting students receive extensive training in acting, voice, movement, and auditioning, while Musical Theatre students receive extensive training in movement, dance, and vocal and singing technique, as well as acting. Theatre Design and Production students receive extensive design in conceptualization, stage management, costuming, lighting, makeup, scenic design, and rendering.

Total Program Credits: 125

Matriculation Requirements:			
1. Admission is competitive and based on successful evaluation of student's performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.			
2. Cumulative G.P.A. of 3.00 or higher			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	

Theatrical Arts for Stage and Screen

	POLS 1000	American Heritage (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	HUM 1010	Humanities Through the Arts	3
	THEA 1013	Introduction to Theatre (Majors only section)	3
	Social/Behavioral Science		3
Discipline Core Requirements:			28 Credits
	THEA 1033	Acting I	3
	THEA 1223	Makeup I	3
	THEA 1513	Stagecraft I	3
	THEA 1514	Stagecraft I Lab	1
	THEA 159R	Production Practicum for Stage and Screen I	1
	THEA 1713	Script and Text Analysis I	3
	THEA 3611	Directing Actors for the Stage and Screen	3
	THEA 3711	Script and Text Analysis II	3
	THEA 3721	Theatre History and Literature I	3
	THEA 3722	Theatre History and Literature II	3
	THEA 481R	Theatre Internship	2
Emphasis Requirements:			62 Credits
	THEA 1113	Voice and Diction I	3
	THEA 2033	Acting II	3
	THEA 2131	Movement for the Actor I	3
	THEA 2156	Group Voice for Theatre	3
	THEA 3033	Acting III	3
	THEA 3113	Acting for Film	3
	THEA 3115	Improvisation	3
	THEA 3117	Auditioning I	3
	THEA 3122	Voice and Diction II	3
	THEA 3123	Stage Dialects	3
	THEA 3131	Movement for the Actor II	3
	THEA 3133	Stage Combat	3
	THEA 3151	Acting for Musical Theatre I	3
	THEA 3152	Acting for Musical Theatre II	3
	THEA 3154	Dance for Musical Theatre I	3
	THEA 315R	Musical Theatre Practicum (No more than 2 credits of 315R will be applied to degree) (2.0)	
or	THEA 319R	Performance Practicum for Stage and Screen (1.0)	5
	THEA 4115	Acting Styles	3
	THEA 4117	Auditioning II	3
	THEA 4119	Senior Showcase and Career Management	3

THEA 4122	Vocal Approach to the Classics	3
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Graduation Requirements:

1. Completion of a minimum of 125 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average of 3.0 or higher.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Theatre Arts - Acting Emphasis, B.F.A.

Careers

Jobs traditionally associated with theatre include acting, directing, producing, script writing, theatre design (lights, scenery, sound, costumes and makeup), theatre technology, theatre education, dramaturgy, stage and production management, theatrical agents, theatre critics, and theatre managers. Additionally, graduates, particularly those with education in technical areas, frequently find work in the related areas of broadcasting, motion pictures, and television.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Theatre Arts - Musical Theatre, B.F.A.

Requirements

In the Bachelor of Fine Arts program, Acting students receive extensive training in acting, voice, movement, and auditioning, while Musical Theatre students receive extensive training in movement, dance, and vocal and singing technique, as well as acting. Theatre Design and Production students receive extensive design in conceptualization, stage management, costuming, lighting, makeup, scenic design, and rendering.

Total Program Credits: 125

Matriculation Requirements:			
1. Admission is competitive and based on successful evaluation of student's performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.			
2. Cumulative G.P.A. of 3.00 or higher			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	

Theatrical Arts for Stage and Screen

	HIST 1740	US Economic History (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	POLS 1000	American Heritage (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	HUM 1010	Humanities Through the Arts	3
	THEA 1013	Introduction to Theatre (Majors only section)	3
	Social/Behavioral Science		3
Discipline Core Requirements:			28 Credits
	THEA 1033	Acting I	3
	THEA 1223	Makeup I	3
	THEA 1513	Stagecraft I	3
	THEA 1514	Stagecraft I Lab	1
	THEA 159R	Production Practicum for Stage and Screen I	1
	THEA 1713	Script and Text Analysis I	3
	THEA 3611	Directing Actors for the Stage and Screen	3
	THEA 3711	Script and Text Analysis II	3
	THEA 3721	Theatre History and Literature I	3
	THEA 3722	Theatre History and Literature II	3
	THEA 481R	Theatre Internship	2
Emphasis Requirements:			62 Credits
	DANC 1100	Beginning Ballet	1
	DANC 1200	Beginning Modern Dance	1
	THEA 1113	Voice and Diction I	3
	THEA 2033	Acting II	3
	THEA 2131	Movement for the Actor I	3
	THEA 2156	Group Voice for Theatre	3
	THEA 284R	Singing Technique for Actors I (must be repeated for 3 credits) (1.0)	3
	THEA 3033	Acting III	3
	THEA 3115	Improvisation	3
	THEA 3117	Auditioning I	3
	THEA 3131	Movement for the Actor II	3
	THEA 3151	Acting for Musical Theatre I	3
	THEA 3152	Acting for Musical Theatre II	3
	THEA 3154	Dance for Musical Theatre I	3
	THEA 3155	Dance for Musical Theatre II	3
	THEA 315R	Musical Theatre Practicum (must be repeated for 4 credits) (2.0)	4

	THEA 319R	Performance Practicum for Stage and Screen (must be repeated for 4 credits) (1.0)	1
	THEA 3725	Musical Theatre History	3
	THEA 4115	Acting Styles	3
	THEA 4117	Auditioning II	3
	THEA 4119	Senior Showcase and Career Management	3
	THEA 484R	Singing Techniques for Actors II (must be repeated for 4 credits) (1.0)	4

Graduation Requirements:

1. Completion of a minimum of 125 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average of 3.0 or higher.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Theatre Arts - Musical Theatre, B.F.A. Careers

Jobs traditionally associated with theatre include acting, directing, producing, script writing, theatre design (lights, scenery, sound, costumes and makeup), theatre technology, theatre education, dramaturgy, stage and production management, theatrical agents, theatre critics, and theatre managers. Additionally, graduates, particularly those with education in technical areas, frequently find work in the related areas of broadcasting, motion pictures, and television.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Theatre Arts - Theatre Design and Production Emphasis, B.F.A.

Requirements

In the Bachelor of Fine Arts program, Acting students receive extensive training in acting, voice, movement, and auditioning, while Musical Theatre students receive extensive training in movement, dance, and vocal and singing technique, as well as acting. Theatre Design and Production students receive extensive design in conceptualization, stage management, costuming, lighting, makeup, scenic design, and rendering.

Total Program Credits: 125

Matriculation Requirements:			
1. Admission is competitive and based on successful evaluation of student's performance audition or production portfolio in the January prior to the student beginning Freshman classes in the Fall.			
2. Cumulative G.P.A. of 3.00 or higher			
General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning (3.0)	

Theatrical Arts for Stage and Screen

	MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
	STAT 1040	Introduction to Statistics (3.0)	
	STAT 1045	Introduction to Statistics with Algebra (5.0)	
	MATH 1050	College Algebra (4.0)	
	MATH 1055	College Algebra with Preliminaries (5.0)	
	MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	POLS 1000	American Heritage (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	HUM 1010	Humanities Through the Arts	3
	THEA 1013	Introduction to Theatre (Majors only section)	3
	Social/Behavioral Science		3
Discipline Core Requirements:			28 Credits
	THEA 1033	Acting I	3
	THEA 1223	Makeup I	3
	THEA 1513	Stagecraft I	3
	THEA 1514	Stagecraft I Lab	1
	THEA 159R	Production Practicum for Stage and Screen I	1
	THEA 1713	Script and Text Analysis I	3
	THEA 3611	Directing Actors for the Stage I	3
	THEA 3711	Script and Text Analysis II	3
	THEA 3721	Theatre History and Literature I	3
	THEA 3722	Theatre History and Literature II	3
	THEA 481R	Theatre Internship	2
Emphasis Requirements:			39 Credits
	ART 1020	Basic Drawing for Non-Majors	3
	ART 1650	Watermedia I	3
	ARTH 2720	History of Art from the Renaissance	3
	THEA 2203	Costume Construction I	3
	THEA 2204	Costume Construction I Lab	1
	THEA 2513	Introduction to Design for Stage and Screen	3
	THEA 2514	Introduction to Design for Stage and Screen Lab	1
	THEA 2515	Rendering for Theatre	3
	THEA 2517	Visual Concepts in Theatre	3

	THEA 4531	Lighting Design I	3
	THEA 4534	Lighting Design I Lab	1
	THEA 4541	Costume Design I	3
	THEA 4544	Costume Design I Lab	1
	THEA 4571	Scenic Design I	3
	THEA 4574	Scenic Design I Lab	1
	THEA 4981	Portfolio	1
	THEA 4993	Senior Project	3
Emphasis Elective Requirements:			23 Credits
Complete 8 credits from the following			8
	THEA 259R	Production Practicum for Stage and Screen II (1.0)	
	THEA 3241	Storytelling (3.0)	
	THEA 3251	Puppetry and Mask (3.0)	
	THEA 3514	Period Styles for Theatre Design (3.0)	
	THEA 3561	Stage Management I (3.0)	
	THEA 359R	Production Practicum for Stage and Screen III (1.0)	
	THEA 3625	Fundraising for the Arts (3.0)	
	THEA 451R	Special Topics in Theatre Design and Technology (3.0)	
	THEA 457R	Practical Design (1.0)	
	THEA 4621	Theatre Administration (3.0)	
	PHIL 3800	Aesthetics (3.0)	
or	HUM 3800	Aesthetics (3.0)	
Complete 15 credits from the following			15
COSTUME TRACK			
	THEA 2541	Costume History (3.0)	
	THEA 3223	Makeup II (3.0)	
	THEA 3542	Costume Construction II (3.0)	
	THEA 4542	Costume Design II (3.0)	
	THEA 4546	Digital Costume Design (3.0)	
	THEA 454R	Special Topics in Costume Construction (3)	
SCENERY TRACK			
	THEA 3574	Drafting for Theatre Design (3.0)	
	THEA 3511	Stagecraft II (3.0)	
	THEA 3514	Period Styles for Theatre Design (3.0)	
	THEA 3573	Scenic Painting (3.0)	
	THEA 4572	Scenic Design II (3.0)	
LIGHTING TRACK			
	THEA 3514	Period Styles for Theatre Design (3.0)	
	THEA 3521	Sound Design I (3.0)	
	THEA 3574	Drafting for Theatre Design (3.0)	
	THEA 4535	Multimedia Design for Stage (3.0)	
	THEA 4532	Lighting Design II (3.0)	
TECHNICAL DIRECTION TRACK			
	THEA 3511	Stagecraft II (3.0)	

Theatrical Arts for Stage and Screen

	THEA 3514	Period Styles for Theatre Design (3.0)	
	THEA 3521	Sound Design I (3.0)	
	THEA 3565	Technical Direction for the Stage (3.0)	
	THEA 3574	Drafting for Theatre Design (3.0)	
STAGE MANAGEMENT TRACK			
	THEA 3514	Period Styles for Theatre Design (3.0)	
	THEA 3521	Sound Design I (3.0)	
	THEA 3561	Stage Management I (3.0)	
	THEA 3625	Fundraising for the Arts (3.0)	
	THEA 4561	Stage Management II (3.0)	

Graduation Requirements:

1. Completion of a minimum of 125 semester credits; a minimum of 40 credits must be upper division.
2. Overall grade point average of 3.0 or higher.
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements.
5. Successful completion of at least one Global/Intercultural course.

Theatre Arts - Theatre Design and Production Emphasis, B.F.A.

Careers

Jobs traditionally associated with theatre include acting, directing, producing, script writing, theatre design (lights, scenery, sound, costumes and makeup), theatre technology, theatre education, dramaturgy, stage and production management, theatrical agents, theatre critics, and theatre managers. Additionally, graduates, particularly those with education in technical areas, frequently find work in the related areas of broadcasting, motion pictures, and television.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Theatre Arts Education, B.S.

Requirements

The BS in Theatre Arts Education prepares and certifies students to teach and direct theatre in public, private, and charter schools. Student in the program take courses in acting, directing, stagecraft, theatrical design, script and text analysis, directing, and theatre teaching. Those seeking the BS in Theatre Arts Education also take courses from the School of Education in pedagogy, curriculum, classroom management, and child and adolescent development. The program includes mentored student teaching and qualifies students for a professional educator license.

Total Program Credits: 125

Matriculation Requirements:	
1.	ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or If student has a bachelor degree or higher, he/she does not need to meet this testing requirement.
2.	GPA of 3.0 or higher with no grade lower than a C in content area courses.
3.	Completion of all General Education requirements and the majority of content area courses.
4.	Pass group interview directed by the Secondary Teacher Education Department
5.	Pass LiveScan Criminal Background Check
General Education Requirements:	36 Credits

	ENGL 1010	Introduction to Writing	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 1700	American Civilization (3.0)	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness	2
or	PES 1097	Fitness for Life (2.0)	
Distribution Courses:			
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities		3
	THEA 1013	Introduction to Theatre	3
	Social/Behavioral Science		3
Discipline Core Requirements:			89 Credits
Theatre Arts Education Core Requirements. Complete the following:			
	THEA 1033	Acting I	3
	THEA 1513	Stagecraft I	3
	THEA 1514	Stagecraft I Lab	1
	THEA 1713	Script and Text Analysis I	3
	THEA 2033	Acting II*	3
	THEA 2211	Theatre for Children and Youth	3
	THEA 2513	Introduction to Design for Stage and Screen	3
	THEA 2514	Introduction to Design for Stage and Screen Lab	1
	THEA 2741	Scriptwriting I	3
	THEA 3511	Stagecraft II	3
	THEA 3561	Stage Management I	3
	THEA 3611	Directing Actors for the Stage and Screen	3
	THEA 3612	Directing Actors for the Stage	3
	THEA 3721	Theatre History and Literature I	3
	THEA 3722	Theatre History and Literature II	3
	THEA 4200	Theatre and Drama in the Secondary School	3
Theatre Arts Education Technical Theatre Requirement. Complete 13 credits from the following courses:			13
	THEA 1223	Makeup I (3.0)	
	THEA 3514	Period Styles for Theatre Design (3.0)	

Theatrical Arts for Stage and Screen

THEA 3573	Scenic Painting (3.0)	
THEA 4531	Lighting Design I (3.0)	
THEA 4534	Lighting Design I Lab (1.0)	
THEA 4541	Costume Design I (3.0)	
THEA 4544	Costume Design I Lab (1.0)	
THEA 4571	Scenic Design I (3.0)	
THEA 4574	Scenic Design I Lab (1.0)	
Secondary Education Licensure requirements: Complete the following:		
EDSC 3000	Educational Psychology	3
EDSC 3050	Foundations of American Education	2
EDSC 3250	Instructional Media	2
EDSC 4200	Classroom Management I	2
EDSC 4250	Classroom Management II	2
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction ESL	3
EDSC 4550	Secondary Curriculum Instruction and Assessment	3
EDSC 4850	Student Teaching--Secondary	10
EDSP 3400	Exceptional Students	2

Graduation Requirements:

1. Completion of a minimum of 125 semester credits, 40 of which must be upper division.
2. Overall GPA of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Successful completion of at least one Global/Intercultural course.

Footnote

*For Theatre Arts Education students, the prerequisite of THEA 1113 Voice and Diction I will be waived.

Theatre Arts Education, B.S.

Careers

Careers:
The BS in Theatre Arts Education prepares students for careers as middle and high school educators. Such positions require effective classroom teaching as well as the ability to direct, produce, and manage in-class and after-school productions. Secondary school teaching positions is often the most practical career choice in the area of Theatre Arts, including regular salary and benefits. It also enables graduates to select and run their own production companies with their own performance facilities and production resources.

Related Careers

- Education Teachers, Postsecondary
- Art, Drama, and Music Teachers, Postsecondary
- Middle School Teachers, Except Special and Career/Technical Education
- Secondary School Teachers, Except Special and Career/Technical Education

Theatre Arts, B.A.

Requirements

The recently revised BA in Theatre focuses theatre majors' work in a module (12 credits) in Performance, in Production, and a given specialty. The revised BA in Theatre Arts offers students a broader-based program that better reflects the liberal arts

paradigm of BA degrees. It provides students with a higher level of choice than does a BFA program while ensuring that students graduate with three specific skill sets.

Total Program Credits: 120

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Writing (3.0)	3
ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
Complete one of the following:		3
MAT 1030	Quantitative Reasoning (3.0)	
MAT 1035	Quantitative Reasoning with Integrated Algebra (6.0)	
STAT 1040	Introduction to Statistics (3.0)	
STAT 1045	Introduction to Statistics with Algebra (5.0)	
MATH 1050	College Algebra (4.0)	
MATH 1055	College Algebra with Preliminaries (5.0)	
MATH 1090	College Algebra for Business (3.0)	
Complete one of the following:		3
HIST 1700	American Civilization (3.0)	
HIST 2700	US History to 1877 (3.0)	
and HIST 2710	US History since 1877 (3.0)	
HIST 1740	US Economic History (3.0)	
POLS 1000	American Heritage (3.0)	
POLS 1100	American National Government (3.0)	
Complete the following:		
PHIL 2050	Ethics and Values (3.0)	3
HLTH 1100	Personal Health and Wellness (2.0)	2
or PES 1097	Fitness for Life (2.0)	
Distribution Courses:		
Biology		3
Physical Science		3
Additional Biology or Physical Science		3
Humanities Distribution (202G/2020 foreign language course)		4
THEA 1013	Introduction to Theatre (3.0)	3
Social/Behavioral Science		3
Discipline Core Requirements:		66 Credits
THEATRE ARTS CORE COURSES		
THEA 1033	Acting I	3
THEA 1513	Stagecraft I	3
THEA 1514	Stagecraft I Lab	1
THEA 1713	Script and Text Analysis I	3
THEA 2211	Theatre for Children and Youth	3
THEA 2513	Introduction to Design for Stage and Screen	3
THEA 2514	Introduction to Design for Stage and Screen Lab	1
THEA 3561	Stage Management I	3
THEA 3611	Directing Actors for the Stage and Screen	3

Theatrical Arts for Stage and Screen

	THEA 3721	Theatre History and Literature I	3
	THEA 3722	Theatre History and Literature II	3
	THEA 4981	Portfolio	1
AREA OF STUDY A: PERFORMANCE. Complete 12 approved credits from the following courses. At least 9 of the 12 credits must be at the 3000 level or above. To ensure a higher level of rigor and focus, students are strongly advised to complete their requirements in the Performance Area of Study in a single module: Directing, Musical Theatre, or Acting. See advisor for the specifics of each module.			12
DIRECTING MODULE COURSES			
	THEA 2033	Acting II (3.0)*	
	THEA 3612	Directing Actors for the Stage (3.0)	
	THEA 3614	Directing Actors for the Screen (3.0)	
	THEA 3725	Musical Theatre History (3.0)	
	THEA 4993	Senior Project (3.0)	
MUSICAL THEATRE MODULE COURSES			
	THEA 2156	Group Voice for Theatre (3.0)	
	THEA 3116	BA Auditioning (3.0)	
	THEA 3151	Acting for Musical Theatre I (3.0)*	
	THEA 3154	Dance for Musical Theatre I (3.0)*	
	THEA 319R	Performance Practicum for Stage and Screen (3.0)	
	THEA 3725	Musical Theatre History (3.0)	
ACTING MODULE COURSES			
	THEA 1113	Voice and Diction I (3.0)	
	THEA 2033	Acting II (3.0)*	
	THEA 2131	Movement for the Actor I (3.0)	
	THEA 3116	BA Auditioning (3.0)	
	THEA 3123	Stage Dialects (3.0)	
	THEA 3133	Stage Combat (3.0)	
	THEA 319R	Performance Practicum for Stage and Screen (3.0)	
AREA OF STUDY B: PRODUCTION. Complete 12 approved credits from the following courses. At least 9 of the 12 credits must be at the 3000 level or above. To ensure a higher level of rigor and focus, students are strongly advised to complete their requirements in the Production Area of Study in a single module: Design or Technical Production. See advisor for the specifics of each module.			12
DESIGN MODULE COURSES			
	ART 1110	Drawing I (3.0)	
	THEA 1223	Makeup I (3.0)	
	THEA 3514	Period Styles for Theatre Design (3.0)	
	THEA 3223	Makeup II (3.0)	
	THEA 4541	Costume Design I (3.0)*	
	THEA 4542	Costume Design II (3.0)	
	THEA 4531	Lighting Design I (3.0)	
	THEA 4532	Lighting Design II (3.0)	
	THEA 4571	Scenic Design I (3.0)	
	THEA 4572	Scenic Design II (3.0)	
	THEA 457R	Practical Design (1.0)	
TECHNICAL PRODUCTION MODULE COURSES			

	DGM 2130	Digital Audio Essentials (3.0)*	
	THEA 2203	Costume Construction I (3.0)	
	THEA 3511	Stagecraft II (3.0)	
	THEA 3542	Costume Construction II (3.0)	
	THEA 3565	Technical Direction for the Stage (3.0)*	
	THEA 3573	Scenic Painting (3.0)	
	THEA 3574	Drafting for Theatre Design (3.0)	
	THEA 4561	Stage Management II (3.0)	
	THEA 481R	Theatre Internship (1.0)	
AREA OF STUDY C: SPECIALTY. Complete 12 approved credits from the following courses. At least 9 of the 12 credits must be at the 3000 level or above. To ensure a higher level of rigor and focus, students are strongly advised to complete their requirements in the Specialty Area of Study in a single module: Theatre for Children and Youth, Scriptwriting, Dramaturgy, Film Studies, or Theatre Administration. See advisor for the specifics of each module.			12
THEATRE FOR CHILDREN AND YOUTH MODULE COURSES			
	THEA 2200	Theatre and Drama in the Elementary School (3.0)	
	THEA 222R	Theater for Young Audiences Tour (3.0)	
	THEA 2741	Scriptwriting I (3.0)	
	THEA 3211	Applied Theatre (3.0)	
	THEA 3241	Storytelling (3.0)	
	THEA 3251	Puppetry and Mask (3.0)	
	THEA 3731	Dramaturgy (3.0)	
	THEA 374R	New Script Workshop (3.0)	
SCRIPTWRITING MODULE COURSES			
	THEA 2741	Scriptwriting I (3.0)	
	THEA 3731	Dramaturgy (3.0)	
	THEA 3741	Script Writing II (3.0)	
	THEA 374R	New Script Workshop (3.0)	
	THEA 4741	Scriptwriting III (3.0)	
DRAMATURGY MODULE COURSES			
	THEA 2741	Scriptwriting I (3.0)	
	ENGL 3060	Visual Rhetoric (3.0)	
	ENGL 3820	History of Literary Criticism (3.0)	
	HUM 330R	Period Studies in Humanities (3.0)	
	THEA 3731	Dramaturgy (3.0)	
	THEA 374R	New Script Workshop (3.0)	
FILM STUDIES MODULE COURSES			
	THEA 1023	Introduction to Film (3.0)	
	THEA 2311	Film History I (3.0)	
	THEA 2312	Film History II (3.0)	
	THEA 3110	Non-Fiction Cinema History (3.0)	
	THEA 314G	Global Cinema History (3.0)	
	THEA 414R	Special Topics in Cinema History (3.0)	
	THEA 416R	Special Topics in Film Studies (3.0)	
THEATRE ADMINISTRATION MODULE COURSES			

ACC 3000	Financial Managerial and Cost Accounting Concepts (3.0)	
ENGL 3320	Grant and Proposal Writing (3.0)	
MKTG 3600	Principles of Marketing (3.0)	
THEA 3625	Fundraising for the Arts (3.0)	
POLS 420R	Issues and Topics in Political Science - Non-Profit Management (3.0)	
THEA 4621	Theatre Administration (3.0)	
Elective Requirements:		18 Credits
	One Foreign Language (Foreign Language 202G/2020* course fulfills Humanities Distribution)	12
	Any courses 1000 or higher	6

Graduation Requirements:

1. Completion of a minimum of 120 semester credits, 40 of which must be upper division.
2. Overall grade point average of 2.5 (C+) or above.
3. Residency hours - minimum of 30 credit hours through course attendance at UVU, with at least 10 hours in the last 45 hours.
4. Successful completion of at least one Global/Intercultural course.

Footnotes
* Requires additional pre-requisite courses not already included in the degree, but they could fill elective credits.

Theatre Arts, B.A.

Careers

Careers:
The liberal arts BA degree in Theatre Arts is, in many cases, a better preparation for MA/PhD programs in theatre than a BFA degree. The BA cultivates an entrepreneurial ability that has prompted many of our graduates to found and run their own companies. A BA in Theatre or another art form is often regarded favorably by medical, law, and business graduate programs because it demonstrates that the graduate is well rounded and effective in communication and problem solving.

Related Careers

- Art, Drama, and Music Teachers, Postsecondary
- Actors
- Producers and Directors
- Entertainers and Performers, Sports and Related Workers, All Other

Volunteer and Service Learning Center

Name:	Volunteer & Service-Learning Center
Location:	SC 105
Telephone:	801-863-8786
Email:	volunteer@uvu.edu
Web Address:	uvu.edu/volunteer
Director:	Summer B Valente

Welcome to the Volunteer & Service-Learning Center! We help students be the change they want to see in the world by volunteering, leading others, and building awareness about social issues in our community. We connect students to the community in six pathways: direct service, community engaged learning and research, social entrepreneurship, policy and governance, community organizing and activism, and philanthropy. Come join the Service Council, go on an Alternative Spring Break, be a Service Scholar, or take a service-learning class! For more information on all the ways you can get involved visit uvu.edu/volunteer.

Subject Listing

A			
Accounting.....	569	Edu Elementary Education.....	663
Aerospace Studies.....	572	Edu Secondary Education.....	665
American Indian Studies.....	573	Edu Special Education.....	666
American Studies.....	574	Education.....	667
Anthropology.....	574	Engineering Graphics and Design Technology.....	675
Apprentice.....	576	English Basic Composition.....	678
Art.....	577	English.....	679
Art History.....	583	Engineering.....	686
American Sign Language.....	585	Environmental Studies.....	687
Astronomy.....	589	Entrepreneurship.....	687
Auto Mechanics.....	590	Environmental Management.....	688
Autism Studies.....	593	Emergency Services Aircraft Rescue Firefighting.....	689
Aviation Science.....	593	Emergency Services Emergency Care.....	690
B		Emergency Services.....	691
Behavioral Science.....	600	Emergency Services Fire Fighting.....	691
Biology.....	601	Emergency Services Fire Officer.....	693
Building Inspection Technology.....	604	English as a Second Lang.....	694
Business/Marketing Education.....	605	Emergency Services Management.....	696
Botany.....	605	Emergency Services Wildland Firefighter.....	698
Biotechnology.....	607	Exercise Science.....	700
C		F	
Culinary Arts.....	607	Facilities Management.....	702
Cabinetry and Archit Woodwork.....	609	Family Studies.....	702
Chemistry.....	610	Fine Arts Music and Theatre.....	703
Chinese.....	613	Finance.....	704
Chinese Studies.....	615	French.....	706
Cinema Studies.....	615	Forensic Science.....	708
Civil Engineering.....	616	G	
Criminal Justice.....	617	Geography.....	710
Classical Studies.....	620	Geology.....	712
Construction Management.....	620	German.....	714
Constitutional Studies.....	622	Geographic Information Systems.....	715
Communication.....	622	Greek.....	716
Computing.....	627	H	
Collision Repair Technology.....	627	History.....	716
Computer Science.....	631	Community Health.....	720
D		Hospitality Management.....	723
Dance.....	636	Honors.....	724
Dental Hygiene.....	643	Human Resource Management.....	725
Digital Media.....	645	Humanities.....	726
Diesel Mechanics.....	655	I	
E		Interdisciplinary Studies Program.....	728
Elec Automat and Robotic Tech.....	656	Information Management.....	728
Electrical and Computer Engineering.....	658	Information Systems and Technology.....	730
Edu Child and Family Studies.....	660	Intelligence Studies.....	734
Economics.....	660	Integrated Studies.....	737
Edu Early Childhood Education.....	662	Information Technology.....	737
		J	
		Japanese.....	741
		L	
		Languages.....	742
		Latin.....	742
		Legal Studies.....	743
		M	
		Mathematics.....	745
		Mathematics Developmental.....	748
		Mechatronics Technology.....	749
		Mechanical Engineering.....	751
		Meteorology.....	752
		Business Management.....	753
		Microbiology.....	756
		Military Science.....	757
		Marketing.....	758
		Master of Public Service.....	761
		Music.....	761
		N	
		National Security Studies.....	767
		Nursing.....	768
		Nutrition.....	772
		P	
		Physical Education Sports.....	772
		Physical Education Teacher Ed.....	775
		Philosophy.....	777
		Physical Science.....	782
		Physics.....	782
		Peace and Justice Studies.....	785
		Political Science.....	786
		Portuguese.....	790
		Paralegal Studies.....	791
		Automotive Power Sports.....	791
		Psychology.....	793
		R	
		Recreation.....	795
		Respiratory Therapy.....	799
		Religious Studies.....	801
		Russian.....	801
		S	
		Student Leadership and Success Studies.....	803
		Sociology.....	804
		Social Science.....	806
		Spanish.....	806
		Statistics.....	810
		Substance Use Disorder Counseling.....	811
		Land Surveying.....	811
		Social Work.....	813
		T	
		Technology Management.....	817

Course Descriptions

Theatre..... 819

U

University Studies..... 825

Z

Zoology..... 826

Course Descriptions

Accounting (ACC)

ACC 1150

Fundamentals of Business Math

3:3:0 Fall, Spring

* Prerequisite(s): MAT 0950 or equivalent

Designed for the business student as a review of mathematical principles, techniques, computations, and their applications to business problems. Topics include: checking accounts and bank reconciliations, percents, solving for the "unknown," discounts, markups and markdowns, payroll, simple interest, discounting notes, present and future value, depreciation, inventory, taxes, insurance, stocks and bonds, annuities, sinking funds, and calculator procedures. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

ACC 1750

Applied Accounting

4:4:0 On Sufficient Demand

* Prerequisite(s): Appropriate placement scores or ENGH 1000 with a grade of C- or higher

Designed for non-accounting majors in Executive Assistant and Paralegal. Provides comprehensive coverage of the accounting cycle for services and merchandising organizations. Topics include: Journalizing, posting, financial statements, closing, accounting systems, internal control, accounts receivable, accounts payable, inventory control, and payroll. Taught in a computer environment. Lab access fee of \$32 for computers applies.

ACC 2010

Financial Accounting

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010 or higher with a minimum grade of C-, MAT 1000 or higher with a minimum grade of C-

* Corequisite(s): ACC 1150 recommended if required for your degree

Teaches concepts and methods underlying preparation of financial statements utilizing generally accepted accounting principles (GAAP). Includes the accounting cycle; income determination for service and merchandising operations; and the reporting of assets, liabilities, and owner's equity for sole proprietorships and corporations. May be delivered online. Lab access fee of \$35 for computers applies. Canvas Course Mats \$72/Wiley applies.

ACC 2020

Managerial Accounting

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 2010

Focuses on the methods and tools used to generate information for decision making by managers within an organization and integrates decision-making throughout the course. Addresses five primary topics: preparation and interpretation of the statement of cash flow; determining the cost of products, services, and segments of the organization; short-term/long-term role of planning in management; the control function of management and current issues in management accounting. May be delivered hybrid and/or online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$116/Pearson applies.

ACC 2030

Principles of Accounting

6:6:0 On Sufficient Demand

* Prerequisite(s): Appropriate placement scores or ENGH 1000 with a grade of C- or higher

Focuses on the role of accounting in planning and controlling a business and reporting results to decision makers. An accounting information system is developed to analyze, record business transactions and generate financial statements for decision makers outside of the organization. Teaches how to interpret external financial reports, assess the viability and profitability of businesses. Also addresses how to use managerial accounting principles to general internal reports, establish budgets, analyze variances, evaluate cost behavior, and control operations through a combination of responsibility accounting and internal controls. Integrates ACC 2010 (Financial Accounting) and ACC 2020 (Managerial Accounting,) for students who want to fulfill both requirements in a single semester and to understand how Financial and Managerial Accounting concepts work together to succinctly represent huge volumes of transactions that drive modern business. Lab access fee of \$32 for computers applies

ACC 281R

Cooperative Work Experience

2 to 8:0:10 to 40 Fall, Spring, Summer

* Prerequisite(s): Approval of School of Business Career and Corporate Manager

Designed for accounting majors to provide on-the-job work experience that will utilize the student's skills and abilities in the field of accounting. Requires a portfolio of acquired work experience and enhanced skills. Includes student, employer, and coordinator evaluations; on-site coordinator visits; written assignments; and oral presentations. Provides experience in formulating and completing individualized work experience objectives. A maximum of 3 credits may apply toward graduation. May be graded credit/no credit.

ACC 3000

Financial Managerial and Cost Accounting

3:3:0

Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020), MAT 1010 or higher, and University Advanced Standing

Provide students in computer science and the technologies with knowledge of financial, managerial, and cost accounting concepts and applications. Prepares students to utilize accounting information in making business decisions. May be delivered online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

ACC 3005

Introduction to the Accounting Profession

1:1:0 Fall, Spring, Summer

* Prerequisite(s): ACC 2010 and University Advanced Standing

Will focus on variety of topics covering the accounting profession, including career options in accounting, certifications in accounting (CPA, CMA, CIA, CFE, etc.), ethics in the profession, current issues in accounting, professional standards, professionalism skills, and the curriculum for the accounting undergraduate and graduate degrees.

ACC 3010

Intermediate Accounting I

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 2010 with a B- or higher, [ACC 2020, IM 2600, (MATH 1050, MATH 1055, or MATH 1090) all with a C or higher], and University Advanced Standing

* Prerequisite(s) or Corequisite(s): MGMT 2240 or MATH 1100

Reviews and expands on fundamental accounting material learned in beginning classes and to gain a solid understanding of the accounting cycle process. Designed to help the student develop the background necessary to succeed as a professional accountant. May be delivered hybrid Lab access fee of \$32 applies. Canvas Course Mats \$78/McGraw applies

ACC 3020

Intermediate Accounting II

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 3010, MKTG 2200, and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ACC 3300

Addresses debt and equity financing, investments in debt and equity securities, leases, deferred income taxes, employee compensation (payroll and pensions), earnings per share, accounting changes, and error corrections. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

Course Descriptions

ACC 3030

Intermediate Accounting for Non-Accounting Majors

3:3:0 On Sufficient Demand

* Prerequisite(s): ACC 2010 and University Advanced Standing

An intermediate accounting course for non-accounting majors with emphasis on interpretation and use of general-purpose financial statements and the related disclosure notes. Addresses understanding interrelationships among the various financial statements and analyzing the effects of transactions on the financial statements. Analyzes common and significant accounts/transactions, especially those relating to the liability and equity sections of the financial statements.

ACC 3120

Internal Auditing

3:3:0

* Prerequisite(s): ENGL 1010, MATH 1050, MATH 1055, or MATH 1090 or higher, junior standing, minimum cumulative GPA of 3.0, and University Advanced Standing

Introduces students to the theories of governance, risk, and control concepts; internal auditing standards; audit techniques; and reporting practices. Applicable across disciplines.

ACC 312G

International Internal Auditing

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 2020 and University Advanced Standing

Introduces students to the international internal auditing standards; global auditing case studies; theories of governance, risk, and control concepts; audit techniques; and reporting practices. Applicable across disciplines. May be delivered hybrid and/or online.

ACC 3300

Cost Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 2020, MGMT 2340 or STAT 2040, IM 2600, and University Advanced Standing

Provides a strategic approach to cost management and the development and use of relevant information for management decision making. Builds a foundation by discussing the various concepts of cost, cost behavior, and cost estimation techniques. Addresses costing of products and other cost objects using job order and process costing, activity-based costing, and cost allocation. Introduces management control topics of budgeting and performance evaluation through variance analysis. Concludes with current topics in cost management. . May be delivered online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

ACC 3400

Individual Income Tax

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 2020 and University Advanced Standing

Studies federal individual income taxes. Covers the accounting theory and practices of federal individual income taxation based on a study of the laws, regulations, and income tax decisions. Lab access fee of \$32 for computers applies. Canvas Course Mats \$116/Pearson applies

ACC 341R

Tax Return Preparation

1:5:2 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

Students learn to use tax preparation software to prepare federal and state income tax returns. Module selections are available to learn to prepare individual income tax returns that vary from the simple 1040EZ to complex individual tax returns with multiple forms. Students may also learn to prepare income tax returns for corporations, partnerships, trusts, gifts, and estates. This course may be taken multiple times. May apply a maximum of 3 credits toward graduation. Will be graded credit/no credit.

ACC 3510

Accounting Information Systems

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 3010, IM 2600, and University Advanced Standing

Teaches analysis design and implementation of accounting information systems. Emphasizes accounting cycles, internal controls, and computerized environments. May be delivered hybrid.

ACC 4020

Advanced Financial Accounting

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 3020, Matriculation into the BS Accounting degree program, and University Advanced Standing

Presents accounting concepts and methods for business combinations, foreign currency transactions, foreign statement translation, and partnerships. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

ACC 4030

Governmental and Not For Profit Accounting

3:3:0 Fall

* Prerequisite(s): ACC 3010, Matriculation into the BS Accounting degree program, and University Advanced Standing

Covers areas of governmental and not-for-profit accounting and reporting. Includes fund accounting, the budgetary process, governmental financial reporting, not-for-profit organizations, health care organizations, colleges and universities, and public sector auditing. Lab access fee of \$32 for computers applies.

ACC 4110

Auditing

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ACC 312G, Matriculation into the BS Accounting degree program, and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ACC 3020

Provides an introduction to independent audits of financial statements in accordance with generally accepted auditing standards, the environment in which audits are performed, and professional ethics. Includes basic audit concepts and procedures related to planning, testing internal controls, investigating reported financial results of business process cycles, and required auditor communications. May be delivered online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

ACC 4140

Advanced Internal Auditing

3:3:0

* Prerequisite(s): Matriculation into the BS Accounting degree program, and University Advanced Standing or Instructor Approval.

Covers advanced topics in the theories of governance, risk, and control concepts; internal auditing standards; and audit techniques.

ACC 4310

Advanced Management Accounting

3:3:0 On Sufficient Demand

* Prerequisite(s): ACC 3300, Matriculation into any Woodbury School of Business bachelor degree program, and University Advanced Standing

Studies and applies advanced topics in Cost Management such as value chain analysis, activity-based management, and other current topics and issues in management accounting. Teaches the principles of management control including strategic planning, budgeting, performance measurement. Includes active class discussion, case analysis, and student presentations.

ACC 4350

Management Control

3:3:0 On Sufficient Demand

* Prerequisite(s): (ACC 2020 or ACC 2030), Senior Standing in any Woodbury School of Business Bachelor program, and University Advanced Standing

Covers the management control environment and the structure of management control systems (responsibility center, transfer pricing, and measuring/controlling assets). Addresses the management control process (strategic planning, budgeting, performance measurement and analyzing operational and financial performance, and management compensation). Discusses variations in management control (controls for differentiated strategies, service organizations, and multinational organizations).

ACC 4400

Taxation of Corporations Partnerships Estates and Trusts

3:3:0 On Sufficient Demand

* Prerequisite(s): ACC 3400, Matriculation into the Bachelor's Degree Program, and University Advanced Standing

For accounting majors and other business students. Studies federal and state taxation of corporations, S-corporations, partnerships, estates, and trusts. Teaches practical application of income tax laws and regulations. Researches source of tax law through the use of electronic medium. Uses computers for preparation of tax returns. Successful completers should be qualified to prepare federal and state tax returns for small businesses, estates, and trusts. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/Cengage applies.

ACC 4410

Tax Research

3:3:0 On Sufficient Demand

* Prerequisite(s): ACC 3010, ACC 3400, Matriculation into the BS Accounting degree program, and University Advanced Standing

Studies theory and practice of tax research as it applies to federal income taxation laws, rules and regulations. Applies ethical considerations and standards to tax practice. Emphasizes computerized tax research techniques which will be explored through cases dealing with administrative aspects of the IRS, court cases, client communications and a wide variety of tax topics.

ACC 4420

Corporate Tax

3:3:0 Fall, Spring

* Prerequisite(s): ACC 3400, MGMT 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing

Covers accounting theory and practices of the federal income taxation laws, rules and regulations relating to sales and exchanges of assets and the formation and operation of corporations and S corporations, and their effects upon the corporation's shareholders.

ACC 4440

Partnership Tax

3:3:0 On Sufficient Demand

* Prerequisite(s): ACC 3400, MGMT 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing

Covers accounting theory and practices of the federal income taxation laws, rules and regulations relating to the formation and operation of partnerships, and their effects upon partners.

ACC 4460

Estate and Gift Tax

3:3:0 On Sufficient Demand

* Prerequisite(s): ACC 3010, ACC 3400, MGMT 2390, Matriculation into the BS Accounting degree program, and University Advanced Standing

Teaches the law and theory of federal taxation of estates and gifts based on a study of the sources of the law including the code, regulations, and digest of official income tax decisions.

ACC 4510

Information Systems Auditing

3:3:0 Fall, Spring

* Prerequisite(s): ACC 3510, ACC 312G, Matriculation into any Woodbury School of Business program, and University Advanced Standing

Provides students a project course covering IT audit and its impact on the financial statement audit. Covers information security, social engineering, and fraud data mining are also covered as they relate to accounting information systems and the associated data. May be delivered hybrid. Lab access fee of \$32 for computers applies.

ACC 470R

Current Topics in Accounting

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Department Chair approval and University Advanced Standing

Course varies from semester to semester. Provides opportunities for students to become exposed to emerging technology and topics of current interest and demand in Accounting. Repeatable for a maximum of 3 credits toward graduation.

ACC 481R

Internship

2 to 8:0:10 to 40 Fall, Spring, Summer

* Prerequisite(s): Approval of School of Business Career and Corporate Manager and University Advanced Standing

For upper-division students in accounting. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job paid experience commensurate with upper-division classroom instruction. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

ACC 490R

Accounting Seminar

1 to 3:1 to 3:0 to 9 On Sufficient Demand

* Prerequisite(s): Matriculation into the BS Accounting degree program, Department Chair Approval, and University Advanced Standing

Designed to provide short courses, workshops, and special programs on accounting-related topics. May be repeated for a maximum of 3 credits toward graduation.

ACC 491R

Independent Study

1 to 4:0 to 4:0 to 12 On Sufficient Demand

* Prerequisite(s): Department Chair approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading, individual projects, etc., at the discretion and approval of the department chairperson. Repeatable for a maximum of 3 credits toward graduation.

ACC 5130

Case Studies in Internal Auditing

3:3:0 Spring

* Prerequisite(s): ACC 312G

Teaches student to design policies and procedures for internal audit operations by using risk based audit plans and developing audit plans. May be delivered hybrid.

ACC 5140

Fraud Examination

3:3:0 Fall, Spring

* Prerequisite(s): ACC 2010 or consent of instructor

Examines the seriousness of fraud and its impact on business and society. Includes forensic accounting and fraud prevention, detection, and resolution. Course fee of \$39 for Fraud Examiners Manual applies.

ACC 6060

Professionalism and Leadership

3:3:0 Fall, Summer

* Prerequisite(s): Admission to Master of Accountancy program

Enhances the ability to interact and communicate with others in the professional world. Builds skill development in oral and written communication, interviewing, networking, and leadership. Explores and enhances emotional intelligence.

ACC 6130

Case Studies in Auditing

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program

Teaches policies and procedures for internal audit operations by creating risk based audit plans, developing audit objectives, and evaluating audit results.

ACC 6140

Fraud Examination and Forensic Accounting

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or the Master of Business Administration Program

Evaluates the seriousness of fraud and its impact on individuals, businesses and society. Formulates fraud prevention, detection, and resolution methods using cases. Course fee of \$39 for Fraud Examiners Manual applies.

ACC 6150

Information Systems Auditing

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program.

Provides projects covering information systems audit and its impact on the financial statement audit. Covers information security, social engineering, and fraud data mining as they relate to accounting information systems and the associated data.

ACC 6350

Accounting Strategies for Achieving Profit Goals

3:3:0 Spring

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program.

Evaluates the design of management control systems through case studies to enable the successful implementation of accounting strategies in a variety of for-profit entities. Emphasizes the development of the students' analytical and decision-making skills. Canvas Course Mats \$134/Pearson applies

ACC 6410

Tax Research and Procedure

3:3:0 Fall

* Prerequisite(s): Admission to the Master of Accountancy or Master of Business Administration Program

Practices the necessary skills to thoroughly research and analyze a tax problem, as well as to report research analysis and conclusions accurately. Explores computerized tax research methods, and the organization of the I.R.S. with some of the procedural aspects of tax compliance and practice, tax related penalties, professional responsibility and tax ethics.

Course Descriptions

ACC 6420

Principles of Corporate Tax

3:3:0 **Fall, Spring**

* Prerequisite(s): Admission to Master of Accountancy program

Covers accounting theory and practices of the federal income taxation laws, rules and regulations relating to sales and exchanges of assets and the formation and operation of corporations and S corporations, and their effects upon the corporation's shareholders.

ACC 6430

Advanced Corporate Tax

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program

Assesses the appropriate federal income tax for a corporation based on relevant accounting and business data. Analyzes the tax implications related to the form of entity and the location of the entity.

ACC 6440

Partnership Tax

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program.

Examines accounting theory and practices of the federal income taxation laws, rules and regulations relating to the formation and operation of partnerships, and their effects upon partners.

ACC 6460

Estate and Gift Tax

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program.

Examines the law and theory of federal taxation of estates and gifts based on Federal code, I.R.S. regulations, and digest of official income tax decisions.

ACC 6500

Advanced Accounting Information Systems

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance in the MBA program

Develops the background necessary to plan, design and implement an accounting information system.

ACC 6510

Financial Auditing

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program.

Examines current auditing standards for independent audits of financial statements. Explores proposed auditing standards, relevant legislation, and selected contemporary advanced topics in auditing.

ACC 6560

Accounting Theory and Research

3:3:0

* Prerequisite(s): Acceptance into the Master of Accountancy or Master of Business Administration program

Evaluates the financial reporting environment. Integrates accounting theory and practical research methodology in the resolution of financial reporting problems.

ACC 6600

Business Regulation

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration Program.

Examines contemporary issues in business law, with an emphasis in accountancy. Studies secured transactions, negotiable instruments, business associations, investor protection, consumer protection and government regulation in an increasingly global and interconnected business environment.

ACC 6610

Financial Statement Analysis

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or Master of Business Administration program.

Teaches financial statement analysis, improving decision making based on financial statement information.

ACC 679R

Special Topics in Accounting

3:3:0

On Sufficient Demand

* Prerequisite(s): Admission to Master of Accountancy program

Varies from semester to semester. Provides opportunities for students to become exposed to emerging technology and topics of current interest and demand in accounting, taxation, auditing, and accounting information systems. May be repeated for a maximum of 6 credits toward graduation.

ACC 6960

Accounting Theory and Research

3:3:0

Fall

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Utilizes an analytical approach to understanding the financial reporting environment, integration of accounting theory and practical research methodology in the resolution of financial reporting problems

Aerospace Studies (AERO)

AERO 1000

Leadership Laboratory 1A

.5:0:2

Fall

Studies basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility.

AERO 1010

Leadership Laboratory 1B

.5:0:2

Spring

Studies basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility.

AERO 1100

The Air Force Today

1:1:0

Fall

* Corequisite(s): AERO 1000

Teaches development, organization, and doctrine of the U.S. Air Force. Emphasizes Strategic Force requirements.

AERO 1110

Aerospace Defense General Purpose and Support Forces

1:1:0

Spring

* Corequisite(s): AERO 1010

Studies U.S. Air Force Defensive Forces, General Purpose Forces, and Tactical Air Forces.

AERO 143R

Air Force Physical Training

.5:0:2

Fall, Spring

* Corequisite(s): AERO 1000

Prepares students for the physical demands placed upon them at Air Force Field Training encampment normally attended between their sophomore and junior years. Provides leadership opportunities and tests a cadet's physical fitness. Repeats are allowed. See advisor for details. May be repeated for a maximum of four credits.

AERO 2000

Leadership Laboratory 2A

.5:0:2

Fall

Teaches fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Increased emphasis on performance level.

AERO 2010

Leadership Laboratory 2B

.5:0:2

Spring

Teaches fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Increased emphasis on performance level.

AERO 2100

The Developmental Growth of Air Power A

1:1:0

Fall

* Corequisite(s): AERO 2000

Studies development of various concepts of air power employment, emphasizing factors that have prompted research and technological change.

AERO 2110

The Development and Growth of Air Power B

1:1:0

Spring

* Corequisite(s): AERO 2010

Studies development of various concepts of air power employment. Emphasizes factors that have prompted research and technological change.

AERO 3000

Leadership Laboratory 3A

.5:0:2

Fall

* Prerequisite(s): University Advanced Standing

Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development.

AERO 3010

Leadership Laboratory 3B

.5:0:2

Spring

* Prerequisite(s): University Advanced Standing

Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development.

AERO 305R
Leadership Laboratory Honor Guard
1:0:3 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing

Teaches basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Emphasizes leadership development. Students perform as cadet officers. Repeats are allowed. See advisor for details. May be repeated for a maximum of 8 credits.

AERO 3100
Management and Leadership A
3:3:0 **Fall**
 * Prerequisite(s): University Advanced Standing

Introduces students to the United States Air Force (USAF) and the Reserve Officer Training Corps (ROTC). Includes conflict management, followership, leadership responsibility, officership, and process improvement.

AERO 3110
Management and Leadership B
3:3:0 **Spring**
 * Prerequisite(s): University Advanced Standing

Introduces students to the United States Air Force (USAF) and the Reserve Officer Training Corps (ROTC). Includes conflict management, followership, leadership responsibility, officership, and process improvement.

AERO 3200
Jet Pilot Introduction
2:2:0 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing

Studies principles of flight and accompanying issues. Introduces meteorology. Presents FARs as they apply to the private pilot. Provides orientation, understanding, and preparation of the US Air Force Undergraduate Pilot Training (UPT).

AERO 399R
Academic Internship Leadership Intern Program
4:0:8 **Summer**
 * Prerequisite(s): Instructor Approval for Air Force ROTC Cadets only and University Advanced Standing

Provides advanced fundamentals of military leadership, planning, organizing, and team building at various levels of responsibility. May be repeated for a maximum of 4 credits toward graduation. May be graded credit/no credit.

AERO 400R
Leadership Laboratory 4A
.5:0:2 **Fall**
 * Prerequisite(s): University Advanced Standing

Presents basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development. May be repeated for a maximum of 2 credits.

AERO 401R
Leadership Laboratory 4B
.5:0:2 **Spring**
 * Prerequisite(s): University Advanced Standing

Presents basic fundamentals of military leadership: drill, courtesy, planning, and organizing at various levels of responsibility. Students perform as cadet officers. Emphasizes leadership development. May be repeated for a maximum of 2 credits.

AERO 4100
National Security Affairs A
3:3:0 **Fall**
 * Prerequisite(s): University Advanced Standing

Studies the military profession, civil-military interaction, and the forming of defense strategy.

AERO 4110
National Security Affairs B
3:3:0 **Spring**
 * Prerequisite(s): University Advanced Standing

Studies the military profession, civil-military interaction, and the forming of defense strategy.

American Indian Studies (AIST)

AIST 180G (Cross-listed with: ANTH 180G) SS
Introduction to American Indian Studies
3:3:0 **Fall**

Provides an overview of modern and historical American Indian communities in the United States. Explores political and historical issues of major tribes and Indian communities by region. Provides students with information and perspectives on key social and cultural issues: spirituality, relations with the Federal government, notable individuals, art, literature, dance, media, health, education and activism.

AIST 327G
Indians of Utah
3:3:0 **Fall Even Year**
 * Prerequisite(s): ENGL 1010 and University Advanced Standing

Investigates the history of Utah's five principal cultural groups from the pre-Columbian period to the present. Considers how economic processes, cross-cultural influences, and changing Federal and State policies have shaped American Indian communities and individuals in and around Utah. Examines how identity and culture in native communities have been defined and redefined through the processes of migration (both native and non-native), conquest, assimilation efforts, and cultural persistence.

AIST 3360
American Indian Education Policy
3:3:0 **Spring Even Year**
 * Prerequisite(s): ENGL 1010 and University Advanced Standing

Discusses the Federal Indian Policies that dictated the educational philosophies and practices of native people. Offers a historic overview of Indian education from first contact with European settlers through contemporary American Indian/Alaskan Native education. Examines the effects of Federal Indian Policies related to the use of boarding schools and the long-term effects the experience had on Native students.

AIST 358G
American Indian Health Policy
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): ENGL 2010, University Advanced Standing, and one of the following: POLS 1000, POLS 1100, HIST 1700, HIST 1740, HIST 2700, HIST 2710

Explores the history, political economy, and epidemiology of American Indian health issues in the United States. Examines the effects of the pandemics brought by the European conquest, the changing Native views and practices in health, the Federal government's practical and legal assumption of responsibility for Native health, and the development of the administration and organization for Native health. Considers modern health issues ranging from diabetes to domestic violence, and the policy responses to them.

AIST 3590
American Indian Law
3:3:0 **Spring**
 * Prerequisite(s): ENGL 1010 and (POLS 1000 or POLS 1010 or POLS 1100) and University Advanced Standing

Introduces students to the important and unique body of law known as American Indian Law. Covers the history of federal Indian law and policy; the federal-tribal relationship; tribal sovereignty and self-government; state authority in Indian country; Indian religion and culture; concepts of property in Indian law; and hunting, fishing, and water rights.

AIST 3600
American Indian Policy and Tribal Government
3:3:0 **Fall**
 * Prerequisite(s): ENGL 2010 or instructor approval and University Advanced Standing

Examines American Indian law in treaties, statutes, case law, regulations, and executive orders. Analyzes various policy approaches to the federal trust relationship, tribal sovereignty over internal affairs, civil jurisdiction over tribal lands, management of natural resources of tribal lands, and cultural preservation. Studies the traditional and modern forms of various Indian tribal governments.

AIST 3810
Precolumbian America
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): ENGL 1010 and AIST 180G and University Advanced Standing

Examines evidence of the first Americans, origins of agriculture, and development of cultures and civilizations in North, Central, and South America. Surveys the most recent archaeological research on major American societies, emphasizing the balance between Native and Euro-American perspectives on history and science. Examines the effects of the European conquest of the Americas on Native populations and cultures, and on global historical processes.

Course Descriptions

AIST 3830

Indians of the Great Plains

3:3:0 **Fall Odd Year**

* Prerequisite(s): (HIST 1700 or HIST 2700 or HIST 2710 or AIST 180G) and ENGL 1010 and University Advanced Standing

Surveys the histories of native communities of the Great Plains. Emphasizes geopolitical relations of the eighteenth and nineteenth centuries and the conditions of resistance to conquest. Highlights the identification and use of primary sources, both for scholarly activity and making sources available to native peoples.

AIST 384G

Indians of the Southwest

3:3:0 **Spring**

* Prerequisite(s): ENGL 1010 and HIST 1700 and AIST 180G and University Advanced Standing

Surveys the cultural geography and social institutions of Indians of the American Southwest and their antecedents. Compares Southwestern Indian cultures and other social groups in the United States. Focuses on historic and contemporary relations among Indian cultures and with the United States federal and state governments.

AIST 3850

The Struggle for Self-determination American Indians 1891 to present

3:3:0 **Fall Even Year**

* Prerequisite(s): (HIST 1700 or HIST 2700 or HIST 2710 or AIST 180G) and ENGL 1010 and University Advanced Standing

Surveys American Indian history from the Wounded Knee Massacre of 1891 to the present. Examines how American Indians shifted from armed conflict to the employment of legal and political strategies for achieving self-determination.

AIST 4600

Contemporary American Indian Political and Social Issues

3:3:0 **Spring Odd Years**

* Prerequisite(s): (AIST 358G or AIST 3600) and University Advanced Standing

Surveys current research and perspectives on contemporary American Indian issues. Utilizes a seminar approach in which each student will prepare summaries of books and articles to be distributed to the other class members. Includes identity, political activism, historiography, health, political, and cultural issues.

AIST 490R

Special Topics in American Indian Studies

3:3:0 **On Sufficient Demand**

* Prerequisite(s): ENGL 2010 and [POLS 1000 or POLS 1100 or HIST 1700 or HIST 1740 or (HIST 2700 and HIST 2710)] and University Advanced Standing

Explores special topics in American Indian Studies and related subjects. Examples of special topics may include health, specific tribal communities, education, political issues, the humanities in Native culture, economic and community development, comparative studies, social science perspectives, or other areas of student and faculty interest. May be repeated for a maximum of 6 credits.

American Studies (AMST)

AMST 2000

Introduction to American Studies

3:3:0 **Spring**

* Prerequisite(s): ENGL 2010 or ENGL 2020

Introduces students to the interdisciplinary study of American culture. Employs insights and approaches from literature, history, art, sociology, anthropology, and political science. Analyzes a variety of texts and artifacts. Explores selected themes and issues central to American Studies.

AMST 300R

Topics in American Studies

3:3:0 **Fall, Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Uses an interdisciplinary approach to study various topics and themes in American Studies. Topics might include Western American Culture, Nature and Culture, Popular Culture in America, Mass Media in America, etc. May be repeated for up to 6 credits toward graduation.

Anthropology (ANTH)

ANTH 101G

Social Cultural Anthropology

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): ENGL 1010 with a grade of C+ or higher

Introduces students to the variability of human behavior cross-culturally and provides an understanding of the holistic approach to human behavior. Explores interrelationships, in a variety of cultural contexts, between beliefs, economic structures, sexuality, eating habits, ecology, politics, living arrangements, psychology, symbolism, and kinship. May be delivered hybrid.

ANTH 1020 (Cross-listed with: BIOL 1500)

Biological Anthropology

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 1010 and (ANTH 101G or BIOL 1010)

Introduces the basic scientific methods and findings of biological anthropology and provides meaningful context by relating them to the larger contexts of evolutionary biology, nonhuman primatology, psychology, archeology, and sociocultural anthropology. Describes history of the discipline and its controversies. Studies genetics, natural selection, comparative anatomy, forensics, and field paleoanthropology.

ANTH 103G

World Prehistory

3:3:0 **Fall, Spring**

Introduces the archaeological record of human prehistory. Explores the earliest fossil remains, and follows the development of humans throughout prehistory. Examines techniques used by archaeologists to find, recover, date, and analyze prehistoric artifacts.

ANTH 180G (Cross-listed with: AIST 180G)

SS Introduction to American Indian Studies

3:3:0 **Fall, Spring**

Provides an overview of modern and historical American Indian communities in the United States. Explores political and historical issues of major tribes and Indian communities by region. Provides students with information and perspectives on key social and cultural issues: spirituality, relations with the Federal government, notable individuals, art, literature, dance, media, health, education and activism.

ANTH 2030

Archeological Method and Theory

3:3:0 **Spring**

Explores the history, goals, theories, and methods of anthropological and archaeological research, especially as influenced by the natural sciences. Examines variations in prehistoric human behavior by analyzing the physical remains of ancient peoples throughout diverse time periods and geographical locations.

ANTH 3000 (Cross-listed with: LANG 3000)

Language and Culture

3:3:0 **Fall**

* Prerequisite(s): ENGL 1010, ANTH 101G or any foreign language 2010 course, Sophomore status, and University Advanced Standing

Introduces cultural linguistics. Analyzes features of human languages that make possible semantic universality. Examines distinction between phonetic and phonemic units. Explores relationship between language and culture. Studies how language shapes culture and how culture shapes language. May be delivered online.

ANTH 3150

Culture Ecology and Health

3:3:0 **Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a grade C+ or higher), ANTH 101G, and University Advanced Standing

Examines reciprocal roles of culture, environment, and disease in human health. Covers nutrition, stress, and traditional non-Western treatments. Explores cultures' use of their own global medicine to sustain health and welfare.

ANTH 3200

Anthropology of Food

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ANTH 101G or SOC 1010) and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and University Advanced Standing

Explores the complex relationships between food and human action. Examines the biological and ecological underpinnings of human nutrition and the evolution of world cuisine, as well as the consequences of modernization for diet, nutrition, and health. Studies the selected social, cultural, medical, political, ideological, and symbolic uses of food in both Western and non-Western societies.

ANTH 3300

Development and Rural Societies

3:3:0 On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and University Advanced Standing

Examines the importance of agriculture and village life in an increasingly globalized world. Explores peasant studies and the many concerns of rural development. Discusses poverty and how it relates to economic, social, and political development. Studies ways to ameliorate poverty and the role of governmental and non-governmental organizations in the process.

ANTH 3315

Great Basin Archaeology

3:3:0

* Prerequisite(s): (ANTH 1030 or ANTH 2030) and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Investigates the prehistoric and ethnographic peoples of the Great Basin of North America through the study of their archaeological remains. Examines how the analysis of ancient technology, subsistence, skeletal material, rock art, settlement patterning, the environment, and archaeological theory shapes our understanding of cultures in the region. May include a field trip to an archaeological site.

ANTH 3340

Peoples and Cultures of Mexico

3:3:0 On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Explores the peoples and cultures of Mexico. Involves discussion regarding borders and immigration, indigenous cultures, rural/peasant societies, urban societies, and historical/political issues specific to Mexico. Emphasizes awareness of cultural relativity and global connectivity among the diverse peoples of Mexico.

ANTH 3350

Andean Prehistory

3:3:0

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and (ANTH 103G or instructor approval) and University Advanced Standing

Offers an updated synthesis of the development, key achievements, material, organizational and ideological features of pre-Hispanic cultures of the Andean region of western South America. Spans around 12,000 years of pre-Hispanic cultural developments, from the earliest hunters-gatherers to the Spanish conquest of the Inca Empire. Focuses on the modern nation of Peru with an emphasis on the Pajjan, Cupisnique, Chavin, Paracas, Nasca, Gallinazo Moche, Recuay, Tiwanaku, Wari, Cajamarca, Sicán, Chimú, and Inka.

ANTH 3360

Contemporary Issues in American Culture

3:3:0 On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or 2020 with a minimum grade of C+) and University Advanced Standing

Examines key aspects of contemporary American culture. Studies timely topics involving current debates and controversies. Includes any or all of the following: American values and popular culture, ethnicity, gender, childhood, food, reproduction, technology, crime, and globalization. Highlights aspects of American culture not explored in other Behavioral Science curriculum.

ANTH 3370

History and Ethnography of Andean Societies

3:3:0

On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade C+ or higher) and University Advanced Standing

Looks at the social and cultural processes that characterize the societies that descend from the Inca Empire--Bolivia, Ecuador, and Peru--as they have developed since the Spanish invasion. Discusses contemporary political, economic, and social problems in these countries in the context of global society.

ANTH 3400

Myth Magic and Religion

3:3:0

On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Explores the many aspects of religion, including its history, diversity, and how it relates to social science studies. Examines terms such as myth, magic, religion, ritual and shamanism, among others, and how these terms are used to discuss religious and spiritual practices around the world.

ANTH 3420

Andean Religion

3:3:0

On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade C+ or higher) and University Advanced Standing

Poses the question of what religiosity was prior to the Spanish conquest in the countries that were part of the Inca Empire--Bolivia, Ecuador, and Peru. Asks how one can determine religiosity given the fierceness of the conquest and the extirpation of idolatries that followed it. Explores the nature of Catholicism that was recreated on these Andean bases. Discusses the contemporary religious issues of Andean societies, such as secularity, and how Andean categories differ foundationally in nature from those on which academic ideas of religion are constructed.

ANTH 3450

Shamanism and Indigenous Religion

3:3:0 On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies the religious systems of indigenous peoples, particularly those which have been called shamanic. Focuses on the classical study of shamanism and the literature on indigenous shamanism. Locates the study of shamanism within a social context that includes social relational and political economic contexts of the groups within which shamanism is found. Poses questions of how shamanism is different from the expanding world religions and compares and contrasts shamanism with non-shamanic indigenous religions. Looks at the current marketing of shamanism in New Age contexts.

ANTH 3460

Anthropology of Mormonism

3:3:0

On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing; ANTH 3400 recommended

Examines the anthropological and sociological work on Mormonism, both the Church and Mormon society and culture. Studies Mormonism in a comparative framework, and will explore the question of the adequacy of the conceptual apparatus of a social science of religion for comprehending Mormonism.

ANTH 3480

Anthropology of Christianity

3:3:0

On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and University Advanced Standing

Develops the key issues that have arisen in the literature that explores Christianity from an anthropological perspective. Asks what is distinctive about Christianity as a form of religion. Explores the problems of studying Christianity when most of our basic social science concepts have Christian origins.

ANTH 3500

Discourse Semiotics and Representation

3:3:0

On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Develops classical theoretical positions on representation, meaning, discourse, poetics, and performance of culture and their implications for scientific epistemology and methodology. Surveys recent work by anthropologists in a range of settings responding to questions raised by these concerns.

Course Descriptions

ANTH 3700 (Cross-listed with: PSY 3700)

Psychological Anthropology

3:3:0 On Sufficient Demand

* Prerequisite(s): PSY 1010 and ANTH 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing; PSY 3400 strongly recommended

Explores interrelationships of individual personality to elements of Western and non-Western sociocultural systems. Examines relations of sociocultural contexts to self, motives, values, personal adjustment, stress and pathology using case histories and ethnography. Studies the idea of self and personality, normality and deviance, and mental health and mental illness across social and cultural boundaries.

ANTH 3720

Applied Anthropology

3:3:0 On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys the ethics and methods used by applied anthropologists. Surveys a range of areas where applied work is performed, including development anthropology, anthropology and health, industrial anthropology, anthropology and marketing, etc. Also explores the political, social, and theoretical implications of applied work.

ANTH 3750

Bioarchaeology

3:3:0

* Prerequisite(s): [(ANTH 1020 or BIOL 1500) and (ENGL 2010 or ENGL 2020 with a minimum C+ grade) or Instructor approval] and University Advanced Standing

Focuses on the biological and contextual study of human remains recovered from archaeological sites. Presents an updated synthesis of bio-archaeological science dealing with the study of the human skeleton to reconstruct patterns of biological stress, infectious disease, lifestyle and physical activity, diet, violent death, and genetic relationships in the past. Temporal coverage principally falls on the last 10,000 years of history, and the spatial scope is global. Involves the dynamic nature of skeletal tissues and the influences of environment and culture on human variation. Acquired skills will be of value to any students interested in skeletal studies including archaeology, bioarchaeology, paleopathology, forensic science, vertebrate biology, biomedical sciences, and behavioral science.

ANTH 3830

Biology and Culture

3:3:0 On Sufficient Demand

* Prerequisite(s): (ANTH 101G or ANTH 1020) and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Explores the interactions of nature and nurture as a complex whole, rather than as mutually exclusive possibilities or separate streams of influence. Includes a significant research project.

ANTH 3850

Ethnographic Methods

3:3:0

Fall

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Teaches qualitative research design and execution using ethnographic techniques. Includes the development and practice of person-centered interviewing, observational techniques, field research, focus groups, and case studies. Analyzes past and present ethnographic literature, and the writing and presentation of research results. Includes conducting and professionally presenting an original research project. Develops skills in problem-solving, thinking analytically, interacting with people different from oneself, reading critically and writing effectively.

ANTH 4120

History of Anthropological Thought

3:3:0

Fall

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum C+ grade) and University Advanced Standing

Surveys anthropological thought, theory and its philosophical roots from the nineteenth to the twentieth centuries. Focuses on the concepts and theoretical paradigms deployed in different social and intellectual conjunctures, as well as on the major debates that have formed the field and separated it from other social science disciplines.

ANTH 4130

Contemporary Theory and Debates

3:3:0

Spring

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Explores social theory and other disciplines. Surveys current debate through exploration of the conceptual apparatuses that are deployed and the issues that motivate current research. Prepares the student to knowingly engage contemporary anthropological literature's.

ANTH 475R

Current Topics in Anthropology

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): ANTH 101G and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) and University Advanced Standing

Presents selected topics in Anthropology and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated for a maximum of 15 credits toward graduation.

ANTH 482R

Archaeological Field Methods Practicum

1 to 9:0:5 to 4:5

* Prerequisite(s): [ANTH 2030 and (ENGL 2010 or ENGL 2020 with a minimum grade of C+) or instructor approval] and University Advanced Standing

Introduces students to archaeological field technique and a critical approach to the methods by which archaeology is conducted. Provides involvement in all phases of field excavation, lab processing, curation and preservation of archaeological remains, and data analysis. Provides students with hands-on training in archaeological, historical, bio-archaeological, and environmental research. Explores how to conduct archaeological survey, large-scale site excavation, date cultural materials, excavate mortuary sites and human burials, and document patterns of social complexity, subsistence, and material culture. Students must be prepared for strenuous outdoor work, including hiking, digging, carrying heavy loads, and processing field collections in laboratory settings. Includes day activities such as survey and excavation. Evenings are dedicated to seminar-style discussion and laboratory work. Involves periodic field trips to nearby archaeological and historic sites. May be repeated for a maximum of 27 credits. May be graded Credit/No Credit.

ANTH 490R

Independent Studies

1 to 3:1 to 3:0

On Sufficient Demand

* Prerequisite(s): For Behavioral Science Bachelor Degree students only; Instructor approval and University Advanced Standing

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, an oral presentation, or other options as approved by instructor. May be repeated for a maximum of 6 credits.

Apprentice (APPR)

APPR 281R

Cooperative Work Experience

1 to 8:0:5 to 4:0

On Sufficient Demand

* Corequisite(s): APPR 285R

Designed for electrical construction apprentice majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits, written assignments and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be graded Credit/No Credit.

APPR 285R
Cooperative Correlated Class
1:1:0 On Sufficient Demand
 * Corequisite(s): APPR 281R

Designed for electrical construction apprentice majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentation and written assignments. Completers should be better able to perform in their field of work or study.

Art (ART)

ART 1010 **FF**
Introduction to Visual Arts
3:3:0 Fall, Spring, Summer

Develops an appreciation of the visual arts by investigating the elements and principles of art, art criticism, art production, and the history of art. Includes written critiques and assignments. Requires students to identify works of arts and describe their significance in writing. May be delivered hybrid.

ART 1020 **FF**
Basic Drawing for Non-Majors
3:2:2 Fall, Spring, Summer

For non-majors. Introduces basic drawing techniques and stresses fundamentals of observation-based homework. Includes practice and skill building. Investigates basic black and white media such as graphite and charcoal. Requires sketchbook, in-class and home work assignments.

ART 1050 **FF**
Photography I
3:2:3 Fall, Spring, Summer

Emphasizes the use of camera operation, including aperture and shutter speed adjustments to control exposure, depth of field, lenses, and camera format. Teaches how to see photographically, using elements of composition and lighting to make stronger images. May be delivered online. Software fee of \$20 applies. Course fee of \$11 for equipment applies. Lab access fee of \$25 for computers applies.

ART 1110
Drawing I
3:2:4 Fall, Spring, Summer
 * Prerequisite(s): Art and Design Major

For Art and Design majors. Introduces fundamental drawing concepts and media. Emphasizes mastery of basic drawing principles and integration of these principles into a personal drawing style through exposure to a variety of structured drawing experiences. Requires sketchbook, in-class and home work assignments.

ART 1120
2D Design
3:2:4 Fall, Spring, Summer

Core course for all Art and Design majors. Introduces the elements and principles of design. Studies two-dimensional formats as they relate to a series of different design problems. Uses principles such as line, shape, rhythm, contour, value, and contrast in creative assignments.

ART 1130
3 D Design
3:2:2 Fall, Spring, Summer
 * Prerequisite(s): ART 1120

Presents a survey of the history and main lines of development and influential factors in three dimensional design. Examines important designers, firms, and decisive turning points in the history of three dimensional design. Emphasizes planning, purpose, and function through project oriented assignments. Teaches proper use of tools and materials. Course fee of \$25 for materials applies.

ART 1210
Spatial Drawing
3:2:4 Fall, Spring, Summer
 * Prerequisite(s) or Corequisite(s): ART 1110

Provides students with essential drawing skills necessary for the correct representation of space. Introduces multiple linear perspective drawing methods, visualization, tonal drawing, and rendering skills. Studies perspective and spatial representation in a historical context.

ART 1340 **FF**
Sculpture I
3:2:2 Fall, Spring

Introduces methods and techniques of figurative clay sculpture. Students will construct armatures and build clay head and anatomy studies from the model. Includes firing and finishing techniques. Course fee of \$20 for materials applies.

ART 1350 **FF**
Ceramics I
3:2:2 Fall, Spring, Summer

Studies clay as an expressive medium. Emphasizes techniques of working with clay, including hand building, wheel throwing, glazing, and firing. Course fee of \$30 for materials applies.

ART 1400
Graphic Computer Applications
3:2:2 Fall, Spring, Summer

Introduces concepts and software related to visual communication and the creation and reproduction of art. Teaches how to create and modify digital images using Adobe Photoshop. Also teaches basic design skills using Adobe Illustrator. Teaches basic page layout skills using InDesign. Covers basic software used in visual communications. May be delivered online. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 1410
Typography I
3:2:4 Fall, Spring, Summer
 * Prerequisite(s): ART 1120, ART 1400. For DGM majors: DGM 1110, DGM 2250.

Teaches the principles of typographic design and communication, type selection, and type terminology. Addresses typographic history and the use of typography in contemporary design including its relationship to layout and grid structure. Teaches skills to allow students to professionally set type using industry standard software. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 1420
Graphic Design I
3:2:4 Fall, Spring, Summer
 * Prerequisite(s): (ART 1120 and ART 1400) or (DGM 1110 and DGM 2250)

Provides an understanding of basic principles needed for effective visual communication. Presents a survey of graphic design theory and practice. Introduces graphic design processes for creative problem solving, production and critique. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 1630
Introduction to Landscape Painting
3:2:2 On Sufficient Demand

Teaches landscape painting and drawing techniques through direct exposure to area sites. Explores interior and exterior landscapes. Studies color, shape, relationships, light, and space. Emphasizes individual interpretation of subject matter using a variety of media. Community members welcome.

ART 1650 **FF**
Watermedia I
3:2:4 Fall, Spring

Studies materials, techniques, and compositional methods of watercolor painting at a beginning level. Teaches the application of basic techniques for the use of transparent watercolor materials. Includes lecture/demonstration and studio time for application and evaluation. For majors and non-majors.

ART 1750
Intro to Digital Imaging
3:2:3 Fall, Spring
 * Prerequisite(s): Art & Design major

Emphasizes the use of camera operation, including lens, aperture, and shutter speed adjustments to control exposure and depth of field. Teaches how to see photographically, using elements of composition and lighting to make stronger images. Uses digital captures as the primary focus. Also covers how to light and photograph 2D and 3D artworks as well as create reference photos. Required DSLR or SLR cameras.

ART 1790
Dark Room Techniques
3:2:4 Fall, Spring
 * Prerequisite(s): ART 1750

Introduces photography majors to traditional dark room processes, including development and printing methods. Teaches imagery through negative manipulation, diffusion, toning, and multiple exposure. Course fee of \$19 for equipment applies.

Course Descriptions

ART 1810

Introduction to Interior Design

3:3:0 **Fall, Spring**

For individuals wishing to develop interior design skills, be employed in the interior design industry, or develop their own interior design business. Overviews the interior design profession, client profiles and the design process. Covers principles and elements of design, evaluating design, color and lighting, fabric and pattern coordination. Studies American architecture and furniture styles, history and identification, and current design trends.

ART 1815

Historical Architecture and Interior Design

3:3:0 **On Sufficient Demand**

Studies interior design and its development and change through historical styles from prehistoric civilizations through the Victorian Era. Identifies major historical period styles, major architects, and designers. Covers furniture, lighting, and surface materials.

ART 1820

Interior Space Design

3:3:0 **Fall**

For individuals wishing to develop interior design skills, be employed in the interior design industry, or develop their own interior design business. Covers aesthetic and functional home design and space planning, "presentation" drafting and presentation techniques, "universal design," quality furniture selection, and furniture arrangements. Includes kitchen design, architectural details, background materials, color fabric construction and selection. Includes lecture, guest speakers, videos, in-class labs and field trips. Completers have prepared floor plans, color and selection boards, and make client presentations.

ART 1825

Modern Architecture Interiors and Furnishings

3:3:0 **On Sufficient Demand**

* Prerequisite(s): ART 1810

Studies interior design and its development through historical styles from the Arts and Crafts movement to Deconstructivism. Covers architects, designers, textiles, lighting and surface materials.

ART 1830

Residential Interior Design

3:3:0 **Spring**

For individuals wishing to develop interior design skills, be employed in the interior design industry, or develop their own interior design business. Covers conceptualizing, designing, specifying and presenting residential interior client presentations. Includes business practices, building codes, portfolio preparation and advanced interior design concepts. Completers will have knowledge to be competent at mid-level interior design positions.

ART 200R

Art and Design Lecture Series

1:1:0 **Fall, Spring**

* Prerequisite(s): Declared Art and Design major

Offers weekly lectures exploring art and design. Addresses art education, art history, ceramics, drawing, graphic design, illustration, painting, photography, and sculpture. May be repeated for a maximum of 4 credits toward graduation. Course fee of \$50 for support applies.

ART 2110

Drawing II

3:2:4 **Fall, Spring**

* Prerequisite(s): (ART 1110 or ART 1020) and ART 1120

Emphasizes continued mastery of drawing principles and further integration of these principles into a personal drawing style. Provides exposure to a variety of structured drawing experiences. Introduces color drawing media into vocabulary and application in works created.

ART 219R

Special Topics

1 to 3:1 to 3:0 to 6 **On Sufficient Demand**

Elective course for Art and Design students. Presents seminars and workshops from experts in industry. May range from a single weekend to a full semester. Repeatable for offerings of different content. A maximum of 3 credits may apply toward graduation. Lab access fee of \$15 for computers applies.

ART 2220

Imagination and Visual Literacy

3:2:4 **Fall**

* Prerequisite(s) or Corequisite(s): ART 1210

Teaches visual problem solving skills that enable students to effectively find, interpret, evaluate, use, and create images that are original in concept. \$25 course fee for support applies.

ART 2230

Illustrative Media and Techniques I

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1120

* Prerequisite(s) or Corequisite(s): ART 1210

Introduces the practice, study, and application of a variety of oil painting techniques used in the production of illustration art. Explores the development of mixed media processes and techniques using oil paint in combination with other materials and media will be explored.

ART 2240

Illustrative Media and Techniques II

3:2:4 **Spring**

* Prerequisite(s): ART 1210

Introduces the study, practice and application of aqueous painting media used in the production of illustration art. Focuses on acrylic, gouache, casein or watercolor painting techniques. In addition, develops mixed media processes and techniques in combination with aqueous painting media.

ART 2250

Gestural Drawing

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1210

Introduces the drawing of basic shapes and forms used to create solidly-constructed, animated characters. Emphasizes understanding and communicating movement of the human form as shapes and drawing imaginatively. Course fee of \$100 applies for support.

ART 2260

Digital Painting for Illustration I

3:2:4 **Fall**

* Prerequisite(s): ART 1110, ART 1400

Introduces the digital illustrator/painter to the application of various animation software programs such as basic raster, vector, and 3D. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 2270

Figure Drawing I

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1120, ART 1210, Art and Design major or department approval.

Studies the anatomy of the human figure; dynamics, posing and motion. Emphasizes figure-drawing skills such as extreme foreshortening, perspective and drawing the gestural motion of the human form. Uses live models (draped and/or undraped). Course Lab fee of \$120 for support applies.

ART 2280

3D Computer Modeling

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 1400 or DGM 1110

Teaches basic techniques of computer software-based 3D modeling, focusing primarily on Polygon and Subdivision Surface workflows applicable to virtually all modern 3D software packages. Includes basic lighting, surfacing, and rendering techniques. Includes computer animation techniques. Software fee of \$20 applies Lab access fee of \$25 for computers applies.

ART 2340

Sculpture II

3:2:2 **Spring**

* Prerequisite(s): ART 1340 or Department Approval

Teaches intermediate techniques of clay sculpture, including armature construction, base relief, figurative sculpture based on human and animal forms. Develops the skills to create a sculpture from clay model to finished piece. Course fee of \$25 for materials applies.

ART 2350

Ceramics II

3:2:2 **Fall, Spring**

* Prerequisite(s): ART 1350 or Department Approval

Teaches intermediate and advanced techniques of wheel throwing, hand-building, and glazing. Emphasizes clay as an artistic medium. Includes decoration of clay shapes with engobes, slip, glaze, overglazes, etc. Develops the skills to create a quality finished ceramic piece. Requires students to provide all materials and equipments except wheels. Course fee of \$40 for materials applies.

ART 2400

Production Design

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1120, ART 1400, ART 1410, ART 1420, formal acceptance to Associate of Applied Science in Graphic Design (AAS) Program by portfolio review, or department approval.

Introduces production techniques used in the graphic design industry. Includes the practical application of learned technical skills through design projects. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 2430**Branding I****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1120, ART 1400, ART 1410, ART 1420, formal acceptance to Associate of Applied Science in Graphic Design (AAS) Program by portfolio review, or department approval.

Addresses concepts relating to branding campaigns. Teaches research skills and the influence they have on the creation of brand identities. Teaches brainstorming, conceptual skills, and the use of industry-standard software for the design and production of an identity system. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 2440**Motion Graphics I****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1120, ART 1400, ART 1410, ART 1420, formal acceptance to Associate of Applied Science in Graphic Design (AAS) Program by portfolio review, or department approval

Teaches basic principles and techniques of 2D animation with an emphasis on typography. Includes discussion of creative problem solving in time-based media. Includes learning 2D industry software to render video and audio. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 2480**UI/UX Design I****3:2:4** **On Sufficient Demand**

* Prerequisite(s): ART 1410, ART 2400

Teaches basic principles and techniques of interface design for the Web. Includes discussion of usability and information architecture to solve client needs. Includes learning HTML tags and CSS styling, image preparation for the Web, and using Adobe Dreamweaver to create and upload web-ready files.

ART 2620**Color Theory****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1120

Explores the principles of color theory as related to the visual arts. Introduces theories of color, color systems, and the psychology of color through a sequence of exercises and projects.

ART 2630**Painting I****3:2:4** **Fall, Spring**

Investigates the character and techniques of oil painting at a beginning level. Emphasizes several approaches (both traditional and modern) on a variety of surfaces.

ART 2640**Painting II****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 2630, (ART 1120 and ART 2620 recommended)

Presents advanced traditional and non-traditional oil painting techniques. Emphasizes the techniques for personal exploration. Encourages development of individual style and approach to the media.

ART 2650**Watermedia II****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1650. ART 2620 recommended

Emphasizes development of technical skills, composition at an intermediate level in a variety of watermedias. Includes lecture, demonstration, and studio time for application and evaluation. Encourages development of personal style in relation to the media.

ART 2680**Printmaking I****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1110 or ART 1020

Introduces fine art printmaking and focuses on beginning techniques, processes, and materials. Explores the role of traditional and contemporary printmaking as a fine art medium. Focuses on the development of personal and individual imagery, craftsmanship, the use of tools and materials, and printmaking terminology. Includes intaglio printing and relief printing. Course Lab fee of \$32 applies.

ART 2700**Photography II****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1790

Extends skills and principles learned in Introduction to Photography. Continues the exploration of light and composition through personal expression to make stronger images. Emphasizes technical control of exposure, development, and aesthetic presentation in the context of the Zone System. Teaches processes of archival printing and presentation. Emphasizes use of large format cameras. Course fee of \$19 for equipment applies.

ART 2710**Documentary Photography****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1750

Teaches the art of telling stories through lens based media. Studies how to take a story from concept to publication. Explores methods of publication of imagery in magazines, newspapers, web sites, social media, annual reports, etc. Uses historical documentary references to inform contemporary ways of telling a story. Includes the use of still and moving imagery. Course Lab fee of \$19 for equipment applies.

ART 2720**Color Photography****3:2:4** **Fall, Spring**

* Prerequisite(s): ART 1750

Introduces color photography and color theory using digital photography and Adobe Photoshop as well as inkjet printing and scanning. Explores cross processing and other development manipulations. Discusses development of color photography and color perception as applied to specific themes. Encourages creativity and personal expression. Software fee of \$20 applies. Lab access fee of \$19 for computers applies.

ART 2730**Photographic Lighting I****3:2:4** **Fall, Spring**

* Prerequisite(s) or Corequisite(s): ART 2720

Teaches the basic skills needed to control and manipulate light as a tool for the photographer in communication of artistic vision. Explores different lighting sources and investigates the effects of direction, quality and quantity. Emphasizes flash photography, tungsten, and natural lighting. Studies photographic studio, location, and mixed lighting techniques. Covers processes and concepts through slide presentations, readings, critiques and class discussions. Course Lab fee of \$19 for equipment applies.

ART 281R**Art and Visual Communications Internship****1 to 6:0:5 to 30** **Fall, Spring, Summer**

* Prerequisite(s): Departmental Approval

Combines classroom theory with related, practical job experience. Students work as employees of a business, agency, or institution while enrolled in classes related to their career/major. Course content is individualized with students setting objectives in concert with their internship advisor and their workplace supervisor. Internship enrollment must be pre-approved by the area coordinator and department internship advisor. Number of hours worked per week will determine credit hours granted. A maximum of 6 credits may apply towards graduation. May be graded credit/no credit.

ART 291R**Independent Study****1 to 3:0 to 3:0 to 9** **On Sufficient Demand**

* Prerequisite(s): Sophomore and above students only

Provides an opportunity for second year and above students to do individual research and experimentation within the areas of the Art and Design Program. Limited to advanced work beyond that which can be completed in existing available classes. Requires that a proposal be submitted and approved by the department prior to enrollment. May be repeated for a maximum of three credits toward graduation.

ART 3005**Ceramic History Trends and Practices****3:2:2** **On Sufficient Demand**

* Prerequisite(s): ART 1350, ART 2350, and University Advanced Standing; or department approval

Investigates important movements, approaches, cultures, and techniques in the history of ceramic production. Studies artists, trends, and issues in contemporary ceramics.

ART 300R**Special Topics in Art****1 to 3:0 to 3:0 to 9** **On Sufficient Demand**

* Prerequisite(s): University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, and department approval

Addresses emerging topics, issues, and developments related to the visual arts. Includes lectures, demonstrations, and studio time for application and evaluation. Encourages development of personal style in relation to the topic. May be repeated for a maximum of 9 credits toward graduation.

Course Descriptions

ART 311R

Drawing III

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 2110 and University Advanced Standing; or department approval

Continues the exploration of the technical skills and conceptual development of drawing as a creative medium. Focuses on the mastery of drawing skills and includes demonstrations, lectures and active participation in the critical process. Emphasizes cultivating personal expression and independent serial work. May be repeated for a maximum of 6 credits toward graduation.

ART 321O

Narrative Illustration

3:2:4 **Fall**

* Prerequisite(s): (Matriculated into the BFA in Art and Design: Illustration emphasis program) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): (ART 2230 or ART 2240) and ART 2270

Provides experiences in creating mood through visual elements and controlling the pictorial space. Emphasizes composition, creativity and technical ability. Addresses narrative illustration and visual storytelling. Course fee of \$20 for support applies.

ART 322O

Conceptual Illustration

3:2:4 **Spring**

* Prerequisite(s): (Matriculated into the BFA in Arts and Visual Communication: Illustration emphasis) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ART 2270

Introduces conceptual illustration and problem solving through the use of visual symbols, metaphors and icons. Course fee of \$20 for support applies.

ART 324R

Childrens Book Illustration

3:2:4 **Fall**

* Prerequisite(s): (Matriculated into the BFA in Art and Design: Illustration emphasis) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ART 2230 or ART 2240

Teaches the processes and techniques used in the execution of children's book illustrations. Emphasizes stylizing, simplifying, exaggerating forms, and organizing pictorial space. Focuses on the art of narrative storytelling and continues the study of media and techniques relative to storybook illustration. May be repeated for a maximum of 6 credits toward graduation.

ART 325R

Flash Animation for Illustration

3:2:4 **Fall, Spring**

* Prerequisite(s): (ART 1110 and ART 1400 or DGM 1620) and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Provides the student of illustration a firm foundation to create simple to moderately complex animations using Adobe Flash. Develops understanding of Flash working environment, Motion Tween and Classic Tween, and squash and stretch timing. May be repeated for a maximum of 6 credits toward graduation. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 326O

Digital Painting for Illustration II

3:2:4 **Spring**

* Prerequisite(s): ART 2260 and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Focuses on creating quality digital paintings/illustrations in a studio setting. Studies the more subtle features of the software applications. Practices advanced conceptual and problem solving skills. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 327O

Digital Illustration

3:2:4 **Spring**

* Prerequisite(s): ART 1110, ART 1400, ART 2260 and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Develops advanced skills in producing pixel-based, computer-generated artwork for use as illustrations and other graphic communications. Emphasizes digitally painted images created from scratch rather than the creation of images produced through the digital manipulation of existing, found, or photographic resources. Develops conceptually based and communicative images that will be a vital aspect of each course project. Employs industry-standard software, and techniques including layers, compositing, channels, selection masks and color adjustments. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 327R

Rendering the Human Head

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1120, and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Develops proficiency in rendering the human head in a variety of approaches and techniques. Addresses geometric and planar construction, proportion, lighting, features, and expression. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$93 for support applies.

ART 328O

3D Computer Rendering

3:2:4 **Spring**

* Prerequisite(s): (ART 1400 or DGM 1110) and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval; ART 2280 recommended

Teaches techniques in lighting, texturing, and rendering of 3D models and scenes with a special emphasis upon aesthetics and composition. Includes HDRI lighting, UV mapping, and texture painting, in addition to the standard techniques. Designed as a companion class to the modeling class, ART 2280, but can be explored as a stand-alone experience. Provides models, as needed, or students may use their own models as approved. Software fee of \$20 applies. Lab access fee of \$25 applies for computers.

ART 328R

Painting the Human Head

3:2:4 **Spring**

* Prerequisite(s): ART 327R and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Continues the development of rendering skills acquired in ART 327R (Head Drawing). Emphasizes mixing flesh tones, managing values, and investigates a variety of approaches to painting the human head. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$93 for computers applies.

ART 334R

Sculpture III

3:2:2 to 4 **Spring**

* Prerequisite(s): ART 2340 and University Advanced Standing; or department approval

Investigates studio problems based on concepts applied to various three-dimensional materials. Places special emphasis on the development of individual expression in the students chosen medium. Encourages the development of individual style and exploration of alternative media. May be repeated for a maximum 6 credits toward graduation. Course fee of \$25 for materials applies.

ART 335R

Ceramics III

3:2:2 to 4 **Fall, Spring**

* Prerequisite(s): ART 2350 and University Advanced Standing; or department approval

Continuation of concepts developed in Ceramics I and II. Addresses advanced skills in hand building, wheel throwing, glaze formulation and kiln firing. May be repeated for a maximum of 6 credits toward graduation. Course fee of \$40 for materials applies

ART 340O

Elementary Art Education Methods

3:2:2 **Fall, Spring**

* Prerequisite(s): University Advanced Standing

For elementary and early childhood education majors and other interested students or community members. Introduces concepts and techniques necessary to teach art education to children in the primary grades through middle school. Applies the four disciplines of aesthetics, art criticism, art history, and art production in drawing, painting, sculpture, printmaking, and crafts. Includes classroom and materials management, and age appropriate curriculum development within contemporary practices. Course Lab fee of \$26 for materials applies.

ART 342O

Typography II

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 2400, ART 2430, University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.

Develops advanced skills in the use of typography and layout. Examines editorial practices and executes designs that are appropriate for the intended audience. Teaches industry-standard page layout software. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 3440

Motion Graphics II

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 2280, ART 2440, University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.

Teaches principles and techniques of 3D animation with an emphasis on typography. Includes discussion of creative problem solving in time-based media. Includes learning 2D and 3D industry software to render video with audio. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 3450

Branding II

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 2400, ART 2430, University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.

Teaches concept and theory behind brand identity and package design. Covers how to conduct research to ensure designs are conceptually appropriate and targeted. Includes creation of collateral that supports campaign criteria. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 3480

UI/UX Design II

3:2:4 **Fall, Spring**

* Prerequisite(s): DGM 2120, University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.

Teaches advanced principles and techniques to develop interactive experiences. Includes discussion of usability and user-centered design to solve client needs. Includes learning user interface (UI) and user experience (UX) design principles. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 3500

Secondary Art Education Methods I

3:2:2 **Fall**

* Prerequisite(s): ART 1110, ART 1120, University Advanced Standing and Matriculation into Art Education.
* Corequisite(s): EDSC 4550

Introduces students to the materials, methods, and resources related to teaching middle school and high school visual arts. Emphasizes the characteristics and components of a quality art program. Designed for the art major pursuing teacher licensure for grades 7-12. Course Lab fee of \$16 for materials applies.

ART 3510

Secondary Art Education Methods II

3:2:2 **Spring**

* Prerequisite(s): ART 3500 with a grade of B - or higher and University Advanced Standing. Art Education Majors only.

Investigates theories and models of curriculum development in the visual arts for middle school and high school students. Includes implementation of curriculum development, unit/lesson planning, and evaluation strategies in the visual arts. Prepares prospective art teachers to plan, organize, and promote quality art programs and curricula. Course Lab fee of \$22 for materials applies.

ART 361R

Figure Drawing II

3:2:4 **Fall, Spring, Summer**

* Prerequisite(s): ART 2270 and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Presents skills and techniques related to drawing the human figure. Uses live models (draped and undraped). May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$150 for support applies.

ART 363R

Painting III

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 2640 and University Advanced Standing; or department approval

Introduces theoretical issues in contemporary painting and their application to personal approaches to painting. Emphasizes individual problem solving and independent growth within a conceptual setting. May be repeated for a maximum of 6 credits toward graduation.

ART 364R

Figure Painting

3:2:4 **Spring**

* Prerequisite(s): (ART 361R, matriculated into the BFA in Art and Design: Illustration emphasis program or area coordinator approval) and University Advanced Standing

Explores fundamental methods and techniques of oil painting from the figure using live models (draped and undraped). Emphasizes mastery of representational depictions of the figure. Includes themes of abstraction, interpretation, and narrative uses of the figure. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$150 for support applies.

ART 365R

Watermedia III

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 2650 and University Advanced Standing; or department approval

Emphasizes experimental approach to watermedia. Provides opportunity for independent exploration and development of personal style coupled with refinement of technical skills. May be repeated for a maximum of 6 credits toward graduation.

ART 366R

Life Drawing

3:2:4 **Fall, Spring**

* Prerequisite(s): ART 1110, ART 1120, or department approval and University Advanced Standing

Studies fundamental human anatomy, structure, value representation, proportion, shape, and gesture from a fine arts vantage point in a range of drawing media. Draws from observation of live models (clothed and unclothed). Serves as a foundation for advanced courses in drawing and painting the human form as found in traditional, modern, and contemporary fine arts movements. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$135 applies.

ART 367R

Printmaking II

3:2:4 **Spring**

* Prerequisite(s): (ART 1110 or ART 1020), ART 2680, University Advanced Standing, or department approval

Continues to develop, enhance, and create proficiency in printmaking skills through intermediate techniques, processes, and materials. Establishes the role of traditional and contemporary printmaking as a fine art medium. Includes challenging and complex projects with more advanced technical skills than Printmaking I. Strengthens the development of personal and individual imagery, including the importance of craftsmanship, the usage of additional tools/materials, and an expanding printmaking vocabulary. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$34 for materials applies.

ART 368R

Printmaking III

3:2:4 **Fall**

* Prerequisite(s): (ART 1110 or ART 1020), ART 2680, University Advanced Standing, or departmental approval

Continues the exploration of fine art printmaking through advanced techniques, processes, and materials including the mixing/printing of color inks and multiple plate registration. Strengthens the development of personal and individual imagery, including the importance of craftsmanship, the usage of new tools/materials, and an expanding printmaking vocabulary. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$34 for materials, equipment applies.

ART 369R

Contemporary Figure Painting

3:2:4 **Spring**

* Prerequisite(s): (ART 366R or ART 2270), ART 2630, and University Advanced Standing; or department approval. ART 2620 recommended.

Studies the human form from a fine arts vantage point at an advanced level in various painting media (oil, acrylic, mixed, etc.). Explores historical and contemporary modes of media/image use and interpretation in conceiving and expressing the human form in a range of stylistic contexts. Painting is done from observation of live models (draped and undraped). Course Lab fee of \$135 applies.

ART 371R

Historical Photographic Processes

3:2:4 **Fall**

* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval

Teaches alternative photographic processes with an emphasis on early photographic printing techniques. Includes preparation and exposure of paper using various alternative techniques through a variety of hands-on projects. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$50 for equipment applies.

Course Descriptions

ART 3730

Photographic Lighting II

3:2:4 Spring

* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval

Focuses on product lighting and camera techniques. Develops artistic skill through the creation of images that can be used in commercial settings, specifically in advertising. Course Lab fee of \$19 for equipment applies.

ART 3740

Fine Art Photography

3:2:3 Fall, Spring

* Prerequisite(s): ART 1750 and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Integrates previously taught image-making skills, and encourages students to further develop their personal vision through a more developed project. Examines contemporary trends, styles, and critical issues through slide presentations, readings, critiques, and class discussions. Course Lab fee of \$19 for equipment applies.

ART 3750

Advanced Digital Imaging

3:2:3 Fall

* Prerequisite(s): ART 2720 and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Integrates Photoshop as a development and manipulation tool for image making. Investigates technical concerns of digital workflow, capture, and output for commercial and fine art applications. Strong emphasis on using Photoshop as a creative tool in personal artistic expression. Discusses more advanced uses of selection tools, color correction, layer and channel manipulations. Teaches processes and concepts through slide presentations, readings, critiques and class discussions. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 3800

Low-Fire Ceramics

3:2:2 Spring

* Prerequisite(s): ART 1350, ART 2350, and University Advanced Standing; or department approval

Explores low-temperature clay and glazing techniques, as well as the practical and aesthetic considerations of their use. Addresses the operation and maintenance of electric kilns.

ART 3810

Ceramic Technologies

3:2:2 On Sufficient Demand

* Prerequisite(s): ART 1350, ART 2350, and University Advanced Standing; or department approval

Teaches proper practices in the ceramic studio. Includes kiln operation, maintenance and design, basic clay and glaze formulation, understanding ceramic materials, ceramic tool making, and studio practices and safety.

ART 411R

Drawing IV

3:2:4 Fall, Spring

* Prerequisite(s): ART 311R and University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

Emphasizes individual exploration in a variety of media with a focus on "process" in a series of finished drawings. Continues with conceptual development of drawing as a creative medium. Encourages active participation in the critical process and refinement of a personal approach to the medium. May be repeated for a maximum of 6 credits toward graduation.

ART 421R

Advanced Illustration

3:2:4 Fall, Spring

* Prerequisite(s): (Matriculated into the BFA in Art and Design: Illustration emphasis program) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ART 3220

Provides advanced studies in producing a senior level portfolio. Encourages students to find a personal style and voice in communicating images. Requires advanced problem solving skills and advanced abilities in the creation of images. May be repeated for a maximum of 6 credits toward graduation. Course fee of \$50 for support applies.

ART 426R

Concept Design I

3:2:4 Fall

* Prerequisite(s): ART 1210, ART 327R, ART 361R, matriculated into the BFA in Art and Design: Illustration emphasis program or area coordinator approval) and University Advanced Standing

Teaches how to create original and compelling concept designs and environments for use in film, video games, graphic novels, and children's books. May be repeated for a maximum of 6 credits toward graduation.

ART 427R

Concept Design II

3:2:4 Spring

* Prerequisite(s): (ART 426R, matriculated into the BFA in Art and Design: Illustration emphasis program or area coordinator approval) and University Advanced Standing

Offers advanced training in the creation of original and compelling character designs for artistic use and as icons for private and corporate use. May be repeated for a maximum of 6 credits toward graduation.

ART 429R

3D Illustration

3:2:4 Spring

* Prerequisite(s): (ART 3280, matriculated into the BFA in Art and Design: Illustration emphasis program or area coordinator approval) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ART 427R

Teaches 3D digital sculpting techniques needed to create finished 3D illustrations and/or 3D assets to be used as reference for 2D illustration. Studies model detailing, texture mapping, lighting, and rendering of 3D computer reference or as standalone 3D illustration. May be repeated for a maximum of 6 credits toward graduation. Software fee of \$20 applies. Lab access fee of \$25 applies for computers.

ART 4360

Mold Making and Casting

3:2:2 Spring

* Prerequisite(s): ART 1120, ART 1130, ART 2340, and University Advanced Standing; or department approval

Covers the basic process of casting and the construction of molds. Emphasizes the use of molds in the development of sculptural ideas. Course fee of \$30 for materials applies.

ART 4370

Hand Building Ceramics

3:2:2 Fall

* Prerequisite(s): ART 1350 and University Advanced Standing; or department approval

Designed for students interested in three-dimensional art forms. Emphasizes hand building design and techniques in creating both sculptural and vessel projects in water-based clay. Teaches advanced methods of coil, slab, and pinch construction. Utilizes slump molding, rolled slab, cylinders, and molds in creation of finished clay products. Course fee of \$30 for materials applies.

ART 443R

Design Studio

3:2:4 Fall, Spring

* Prerequisite(s): ART 3420, ART 3450, and University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval

Addresses emerging topics, issues, and technology relevant to graphic design. Addresses these issues through research and collaborative project development. May be repeated for a maximum of 6 credits toward graduation. Software fee of \$20 applies. Lab access fee of \$25 applies for computers.

ART 4440

Motion Graphics Studio

3:2:4 Fall, Spring

* Prerequisite(s): ART 3440, and University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.

Addresses emerging topics, issues, and technology relevant to motion design. Addresses these issues through research and collaborative project development. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

ART 4480

UI/UX Studio

3:2:4 Fall, Spring

* Prerequisite(s): ART 3480, and University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval.

Addresses emerging topics, issues and technology relevant to UI/UX design. Addresses these issues through research and collaborative project development. Software fee of \$20 applies. Lab access fee of \$25 for computers applies.

**ART 463R
Painting IV**

3:2:4 **Fall, Spring**
* Prerequisite(s): ART 363R and University Advanced Standing; or department approval

Emphasizes independent and creative development as a painter. Provides an opportunity for students to solidify and expand their ideas while working within a class context. May be repeated for a maximum of 6 credits toward graduation.

**ART 465R
Watermedia IV**

3:2:4 **Fall, Spring**
* Prerequisite(s): ART 365R and University Advanced Standing; or department approval

Emphasizes continued experimental approach to various types of watermedia. Provides opportunity for independent exploration and further development of personal style/voice coupled with refinement of technical skills. May be repeated for a maximum of 6 credits.

**ART 468R
Printmaking IV**

3:2:4 **Fall, Spring**
* Prerequisite(s): (ART 1110 or ART 1020), ART 2680, University Advanced Standing, or departmental approval

Expands the exploration of fine art printmaking through advanced techniques, processes, and materials. Continues to view the role of traditional and contemporary printmaking as a fine art medium. Includes more challenging and complex projects with more advanced technical skills than in Printmaking I, II, & III. Encourages the ability to detect and diagnose printing errors and to collaborate with peers in the making and critiquing of artworks. Strengthens the development of personal and individual imagery, including the importance of craftsmanship, the usage of new tools/materials, and an expanding printmaking vocabulary. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$34 for materials applies.

**ART 470R
Figure Drawing III**

3:2:4 **Spring**
* Prerequisite(s): (ART 361R, Art and Visual Communication BFA Students, or Instructor approval) and University Advanced Standing

Offers a senior-level drawing experience, emphasizing drawing from imagination. Continues skill development in proper character structure and scene layout. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$125 for support applies.

**ART 471R
Photographic Illustration**

3:2:3 **Spring**
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval

Develops skills in illustrating concepts through photographic processes. Encourages students to work through assignments from their own personal emphasis of commercial or fine art image making styles. Explores contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Focuses on the development of interpretation and conceptual image making. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$19 for equipment applies.

**ART 474R
Advanced Photo Studies**

3:2:4 **Fall**
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval

Integrates all previous image making skills acquired into the students' visual vocabulary. Encourages students to further develop their own personal vision through more developed projects. Examines contemporary trends, styles, and critical issues through slide presentations, readings, critiques and class discussions. Investigates needed skills in running a business as a commercial and Fine Art photographer. Emphasizes conceptual image making. May be repeated for a maximum of 6 credits toward graduation. Course Lab fee of \$19 for equipment applies.

**ART 4750
Exploratory Photographic Processes**

3:2:4 **Spring**
* Prerequisite(s): University Advanced Standing; formal acceptance to Bachelor of Fine Arts (BFA) Program by portfolio review, or department approval

Explores deconstruction of the image in both a formal and conceptual process. Analyzes liquid emulsions, mixed media, encaustic, and alternative surfaces and materials. Examines the possibilities of the image beyond two-dimensional traditional photography. Course Lab fee of \$19 for equipment applies.

**ART 481R
Art and Design Internship**

1 to 6:0:5 to 30 **Summer**
* Prerequisite(s): University Advanced Standing; formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree and departmental approval

Combines classroom theory with related, practical job experience. Students works as employees of a business, agency, or institution while enrolled in classes related to their career/major. Course content is individualized with students setting objectives in concert with their internship advisor and their workplace supervisor. Internship enrollment must be pre-approved by the area coordinator and department internship advisor. Number of hours worked per week will determine number of credits granted. May apply a maximum of 6 credits toward graduation. May be graded credit/no credit.

**ART 4890
Senior Seminar**

3:3:0 **Fall, Spring**
* Prerequisite(s): University Advanced Standing; Senior status and formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, or department approval

For Art and Design majors. Covers standard policies and procedures used in the creation and marketing of visual arts. Includes estimating, pricing, trade customs, ethical standards, contracts, and other legal rights and issues. Explores job opportunities and self-employment options for visual artists.

**ART 491R
Independent Study**

1 to 3:0 to 3:0 to 9 **On Sufficient Demand**
* Prerequisite(s): University Advanced Standing, formal acceptance to the Art and Design Bachelor of Arts (BA), Bachelor of Science (BS), or Bachelor of Fine Arts (BFA) degree, and department approval

Provides an opportunity for upper division students to do individual research and experimentation within the areas of the Art and Design Program. Study is limited to advanced work beyond that which can be completed in existing available classes. A proposal must be submitted and approved by the department prior to enrollment. May be repeated for a maximum of 3 credits toward graduation.

**ART 4990
Senior Studio**

3:2:2 **On Sufficient Demand**
* Prerequisite(s): University Advanced Standing, Senior status, formal acceptance to the Art and Design Bachelor of Arts (BA) or Bachelor of Science (BS), and department approval

For Art and Design majors with senior status. Combines and integrates concepts, methodologies and skills developed in previous Art and Design course work, through the completion of a comprehensive project. Requires students to develop their own project/portfolio in consultation with a faculty advisor. Finished projects will demonstrate individual student skills and interests.

**ART 499R
BFA Project**

3:2:4 **Fall, Spring**
* Prerequisite(s): University Advanced Standing; Senior status and formal acceptance to Bachelor of Fine Arts (BFA) program by portfolio review or department approval

Focuses on the development and execution of a gallery exhibition or professional portfolio. Includes collaborative work with a gallery/museum professional in preparation of the exhibition's public viewing. May be repeated for a maximum of 6 credits toward graduation.

Art History (ARTH)

ARTH 2710 **FF**
History of Art to the Renaissance
3:3:0 **Fall, Spring, Summer**

Covers major trends in Western art from the Paleolithic period to the Gothic era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the development of art.

ARTH 271H **FF**
History of Art to the Renaissance
3:3:0 **On Sufficient Demand**

Covers major trends in Western art from the Paleolithic period to the Gothic era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the development of art.

Course Descriptions

ARTH 2720 **FF**
History of Art from the Renaissance
3:3:0 **Fall, Spring, Summer**

Covers major trends in Western art, from the Renaissance through the Modern era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the creation of art.

ARTH 272H **FF**
History of Art from the Renaissance
3:3:0 **On Sufficient Demand**

Covers major trends in Western art, from the Renaissance through the Modern era, including elements of political, religious, cultural, literary, and philosophical elements as they impacted the creation of art.

ARTH 2800
Introduction to Art History Research and Methodology
3:3:0 **Spring**

* Prerequisite(s): ARTH 2720 (ARTH 2710 recommended), ENGL 1010

Develops needed skills to research in various fields related to the visual arts. Teaches how to prepare and organize a research paper. Focuses on historical methodologies. Studies critical reading, thinking, and writing. It is strongly recommended that students take this class by their second year or before taking upper-division Art History courses.

ARTH 300R
Special Topics in Art History
3:3:0 **On Sufficient Demand**

* Prerequisite(s): ARTH 2710 or ARTH 2720 and University Advanced Standing

Explores topics within art and architectural history. Topics will change each semester to reflect the research activities and interests of the instructor (e.g., "The History of Victorian Art & Design", "The History of Rococo Painting & Sculpture"). May be repeated for a maximum of 6 credits toward graduation.

ARTH 3010
History of Design and Visual Arts
3:3:0 **Fall, Spring**

* Prerequisite(s): ARTH 2710, ENGL 1010, (Art and Design Sophomore status or departmental approval), and University Advanced Standing

Presents a history of graphic design, illustration, and photography apart from the study of traditional art history. Explores the impact of major movements, technologies, and innovations on present-day graphic design. Includes lectures, group projects, and field trips.

ARTH 3015
Ancient Art of Egypt and the Near East
3:3:0 **Fall**

* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies the art and architecture of ancient Egypt and various cultures of the Mesopotamian region. Explores the broader cultural, historical, and religious events and developments of the cultures and periods covered. Includes lectures and class discussions.

ARTH 3020
Classical Art and Architecture History
3:3:0 **Spring**

* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies the art and architecture of Ancient Greece, Etruria, and Rome. Explores the influences on classical culture as well as the influences of Greco-Roman culture over the centuries. Includes lectures and class discussion about classical art within its broad cultural framework.

ARTH 3030
Medieval Art and Architecture History
3:3:0 **Fall**

* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies major styles, cultural influences, and developments in the arts of the middle ages. After an introduction to the aftermath of the fall of Rome and the rise of Christianity, the Romanesque and Gothic periods are investigated in detail. Includes lecture and class discussions

ARTH 3040
Renaissance Art History
3:3:0 **Fall**

* Prerequisite(s): ARTH 2710 (ARTH 2720 recommended), ENGL 1010, and University Advanced Standing

Studies art and architecture in Italy between 1250 and 1550, and explores artistic style, patronage, historical influences, and broad cultural influences on art. Includes lectures and class discussion on the major art works and artists in Florence, Rome and Venice.

ARTH 3050
Baroque Art and Architecture History
3:3:0 **Spring**

* Prerequisite(s): ARTH 2720 (ARTH 2710 recommended), ENGL 1010, and University Advanced Standing

Studies major art works and artists in Italy, Spain, and France during the 17th Century. Explores the artistic, historical, religious, and broad cultural influences on the art of this period.

ARTH 3055
Northern Baroque Art History
3:3:0 **On Sufficient Demand**

* Prerequisite(s): ARTH 2720, ENGL 1010, and University Advanced Standing

Studies major artists and artworks of northern Europe during the 17th century. Explores the artistic, historical, religious, and broad cultural influences on the art of this period, primarily focusing on artists working in Flanders and the Dutch Republic, as well as those from surrounding northern regions.

ARTH 3060
Nineteenth-Century Art History
3:3:0 **Spring**

* Prerequisite(s): ARTH 2720 (ARTH 2710 recommended), ENGL 1010, and University Advanced Standing

Studies leading artists and movements of the 19th century, emphasizing artistic developments in Europe between 1750 and 1900, primarily in France. Explores the broad historical, social, cultural, and philosophical changes that took place and influenced the visual arts of the century. Includes lecture and class discussions.

ARTH 3070
Modern Art and Architecture History
3:3:0 **Fall**

* Prerequisite(s): ARTH 2720, ENGL 1010, and University Advanced Standing

Studies leading artists, artworks, and movements. Explores the broad cultural, historical, and philosophical influences on modern art and architecture. Includes lectures and class discussions on modern art and architecture. May be delivered online.

ARTH 3080
History of Architecture
3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ARTH 2710 or ARTH 2720), ENGL 1010, and University Advanced Standing

Surveys developments in architecture over the centuries, focusing on a variety of periods and leading innovators. Includes the role of technology as well as the broad cultural background in which the architecture was created.

ARTH 309G
Introduction to Non Western Ancient Art
3:3:0 **Spring**

* Prerequisite(s): ARTH 2720, ENGL 1010, and University Advanced Standing

Introduces students to the art and architecture of non-western cultures such as China, Japan, Africa, India, the Middle East, Oceania, and/or the Americas, based on faculty expertise. Discusses the religious, cultural, political, and philosophical contexts in which the art and architecture were produced. Requires reading, informal and formal writing, and tests.

ARTH 3100
History of American Art and Architecture
3:3:0 **Fall**

* Prerequisite(s): ARTH 2720, ENGL 1010, and University Advanced Standing

Studies leading artists, architects and movements in America from the colonial era to the 1950s. Explores the aesthetic, social, political, and technological changes that impacted the development of art and architecture in America, with an emphasis on the styles and movements of the nineteenth and twentieth centuries. Includes lecture and class discussions.

ARTH 3110
The History of Illustration
3:3:0 **Fall, Spring**

* Prerequisite(s): University Advanced Standing

Surveys the history of illustration as visual communication. Discusses major movements and the influence of technological advancements in printing and broadcast media on the field of illustration. Focuses primarily on the period from 1860 to the present.

ARTH 3120
History of Contemporary Art
3:3:0 **Spring**
 * Prerequisite(s): (ARTH 2710 or ARTH 2720), ENGL 1010, and University Advanced Standing

Studies themes and trends related to contemporary art. Explores the diverse influences that impacted art from late modernism to the twenty-first century. Emphasis will be given to understanding the pluralism of international contemporary art from the last three decades. Includes lecture and class discussions.

ARTH 3200
The History of Photography
3:3:0 **Fall, Spring**
 * Prerequisite(s): (ARTH 2710 or ARTH 2720) and University Advanced Standing

Traces the different directions photography has taken since its inception, using the social and cultural environment as a context. Investigates the ever-increasing use of photography by artists in the creative process from the first uses of the camera obscura to the present. Discusses the developments that set the stage for the "invention" of photography and how photography changed the role of artists in the 19th and 20th centuries. Covers documentary photography and the rise of fine art photography as separate art forms.

ARTH 3300
Introduction to Museum Studies
3:3:0 **Fall**
 * Prerequisite(s): Students must be a declared Art and Design major (or admittance to class by instructor) and have taken either ARTH 2710 or ARTH 2720, University Advanced Standing.

Introduces students to theoretical knowledge and practical skills needed to work in the museum environment. Teaches the basic functions and operations of museums, as well as art historical connections to these nonprofit organizations.

ARTH 3310
Art Theory and Criticism
3:3:0 **Fall**
 * Prerequisite(s): [ARTH 2710 or ARTH 2720 or (HUM 2010 and HUM 2020)] and University Advanced Standing

Examines art theories, explores ideas related to content and understanding the meaning in art by emphasizing interpretation and judgment. Integrates theories and concepts related to both historical and contemporary art history through critical writings and artist statements.

ARTH 3400
Arts Management
3:3:0 **Fall**
 * Prerequisite(s): ARTH 2720 and University Advanced Standing

Studies the arts from managerial, economic, ethical, and cultural viewpoints. Includes such concepts as non-profit and commercial institutions, arts accessibility, audience development, organizational models, and leadership.

ARTH 391R
Art History Seminar
3:3:0 **Fall**
 * Prerequisite(s): (ARTH 2710 or ARTH 2720), ARTH 2800, ENGL 1010, and University Advanced Standing

Explores topics within Art and Architectural History. Topics will change each semester to reflect the research activities and interests of the instructor (e.g., "The Life and Art of Michelangelo," "The Current State of Gender Studies in Art History"). May be repeated for a maximum of 12 credits toward graduation.

American Sign Language (ASL)

ASL 1000
Introduction to the Deaf World
3:3:0 **On Sufficient Demand**

Focuses on the nature, make up, and significance of the Deaf-World as a linguistic and cultural minority group. Gives significant attention to the different ways that deaf people form a minority group thereby adding diversity to society at large. Also addresses the diversity within the group and the sociological factors that affect its makeup. Introduces American Sign Language (ASL) and teaches some basic conversational skills. Gives special attention to the differences between the ways hearing and Deaf people construct meanings associated with deaf people. Taught in (or interpreted into) English.

ASL 1010 **LH**
Beginning American Sign Language I
4:4:1 **Fall, Spring, Summer**

Introduces American Sign Language (ASL) to students with no previous experience with ASL. Employs an immersion approach to language learning. Emphasizes basic expressive and receptive conversational skills. Includes introduction to American Deaf culture. Requires weekly lab. Lab access fee of \$10 applies. Lab access fee of \$10 applies.

ASL 1020 **LH**
Beginning American Sign Language II
4:4:1 **Fall, Spring, Summer**
 * Prerequisite(s): Students should have equivalent knowledge of ASL 1010

Builds on the experiences in ASL 1010. Emphasizes basic expressive and receptive conversational skills through active student participation. Continues introduction to American Deaf culture. Employs an immersion approach to language learning. Requires a weekly lab. Lab access fee of \$10 applies.

ASL 115R
ASL Conversation I
1:1:0

Offers novice ASL users opportunities to enhance their proficiency in the target language by focusing on production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen comprehension for natural conversational flow. Contrasts with all other first-year courses which must strive to produce mastery of the whole range of language acquisition components. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of conversational opportunities. Increases mastery of lexical items through increased frequency of use. May be repeated for a maximum of 3 credits toward graduation. Taught in ASL.

ASL 2010 **LH**
Intermediate American Sign Language I
4:4:1 **Fall, Spring, Summer**
 * Prerequisite(s): Students should have equivalent knowledge of ASL 1020

Reviews and builds upon the grammar and conversation skills learned in the first year courses. Concentrates on understanding and acquiring more advanced conversational proficiency in ASL. Emphasizes the use of various kinds of ASL classifiers in the function of describing objects and in providing locative information. Analyzes Deaf culture with an emphasis on the struggles of this linguistic minority with a majority controlled educational establishment with particular attention to the effects on individual Deaf lives. Lab access fee of \$10 for applies.

ASL 202G **HH**
Intermediate American Sign Language II
4:4:0 **Fall, Spring**
 * Prerequisite(s): Students should have equivalent knowledge of ASL 2010

Continues applied conversation use of ASL through literature, narratives, poetry, and creative sign play. Analyzes ASL grammatical principles and Deaf cultural experiences to explore and understand various underlying metaphors found in ASL literature. Requires Deaf community exposure and involvement. Lab access fee of \$10 applies.

ASL 2030
Advanced Fingerspelling
1:1:0 **Fall, Spring**
 * Prerequisite(s): ASL 1020 or equivalent knowledge

Focuses on the patterns of ASL fingerspelling, one of the hardest ASL skills to master. Increases ability to accurately produce and comprehend ASL fingerspelling. Gives attention to the nature and application of fingerspelling within the sociocultural context of the Deaf-World. Taught in ASL.

ASL 2040
ASL Numbers
1:1:0 **Fall, Spring**
 * Prerequisite(s): ASL 1020 or equivalent knowledge

Focuses on the complex rule systems governing ASL numbers as used in a wide range of settings. Increases ability to accurately produce and comprehend contextually situated ASL numbers. Taught in ASL.

Course Descriptions

ASL 2050

Advanced ASL Grammar

3:3:0

* Prerequisite(s): Students should have equivalent knowledge of ASL 202G

Explores the grammar of ASL focusing on areas typically difficult for English speakers, particularly ASL classifiers. Provides extensive instruction and opportunity for students to improve both comprehension and production through regular interaction. Taught in ASL. Lab access fee of \$10 applies.

ASL 2060

Using Space in ASL

3:3:1

On Sufficient Demand

* Prerequisite(s): ASL 2050

Studies the use of space in ASL productions and how to visualize and describe spatial relationships using ASL. Emphasizes skills necessary to describe space from different angles and point of views, focusing on areas typically difficult for English speakers. Provides extensive instruction and opportunity for students to improve both comprehension and production. Taught in ASL.

ASL 215R

ASL Conversation II

1:1:0

* Prerequisite(s): Students should have equivalent knowledge of ASL 1020

Offers lower division/novice ASL users opportunities to enhance their proficiency in the target language by focusing on production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping interlocutors, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of production opportunities and defusing concern about new vocabulary and grammar. Increases mastery of lexical items through increased frequency of use. May be repeated for a maximum of 3 credits toward graduation.

ASL 3000

Technology for Deaf Studies

3:3:1

Fall, Spring

* Prerequisite(s): ASL 201G or equivalent

Examines various forms of media that will help Deaf Studies students succeed in both the pursuit of their academic degrees and in real-world work environments. Draws on the theoretical approaches of the Visual Culture field to explore visual theory, museums, memorials, film and video. Gives in-depth instruction in the use of multiple digital technologies used in higher-level Deaf Studies classes and in work environments associated with Deaf people. Taught in ASL.

ASL 3010

Foundations and Theory and Methods of Deaf Studies

3:3:0

On Sufficient Demand

* Prerequisite(s): (ASL 202G or equivalent) and University Advanced Standing

Provides Deaf Studies students a foundation for further study. Covers three areas: (1) significant persons and events in the Deaf-World which are often referenced in later courses; (2) significant theoretical approaches in the field; and (3) fundamentals of conducting research. Lays the foundation for students to engage in meaningful inquiry in upper-division coursework. Taught in ASL.

ASL 3050

Advanced American Sign Language

3:3:0

Fall, Spring, Summer

* Prerequisite(s): ASL 202G or instructor approval

Designed for students who have attained a fairly good mastery of basic ASL. Focuses on grammatical and linguistic aspects of ASL, including sign formation, morphological structures, syntactic structures, pronominalization, identification and analysis of subjects and objects, classifiers, depicting verbs, pluralization, time concepts, and social interaction of language and culture within Deaf communities. Lab access fee of \$10 applies.

ASL 315R

ASL Conversation III

1:1:0

* Prerequisite(s): (ASL 202G or equivalent knowledge) and University Advanced Standing

Offers intermediate ASL users opportunities to enhance their proficiency in the target language by focusing on production. Centers on discussions from a selected reading list in 'book club' form. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen comprehension for natural conversational flow. Contrasts with all other third-year courses which are more content based. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of conversational opportunities. May be repeated for a maximum of 3 credits toward graduation.

ASL 3310

Foundations of Interpreting

3:3:0

Fall, Spring

* Prerequisite(s): ASL 3050 and University Advanced Standing

Introduces bidirectional (ASL-to-English and English-to-ASL) interpreting between Deaf and hearing people. Studies the profession and skills necessary to be an interpreter. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll. May be delivered online.

ASL 3320

Physiology of Interpreting

3:3:0

On Sufficient Demand

* Prerequisite(s): ASL 202G and University Advanced Standing

Introduces students to skills and processes required to maintain health and wellbeing in the physically demanding and high stress field of interpreting. Develops cognitive, ergonomic, and dual tasking abilities required to interpret without stress or physical injury. Helps students better understand how a healthy lifestyle and developing good habits can improve their skills and prevent injury. Lab access fee of \$10 applies.

ASL 3330

Cross Cultural Communication and Interpreting

3:3:0

Fall, Spring

* Prerequisite(s): ASL 3310 and University Advanced Standing.

Builds on ASL 3310. Focuses heavily on the practice of interpreting with special emphasis on the dimension of intercultural communication. Requires regular skill-building exercises in both consecutive and simultaneous interpretation, both English-to-ASL and ASL-to-English. Deaf students are encouraged to enroll. Taught in ASL. Lab access fee of \$10 applies.

ASL 3340

Interpreting as a Profession

3:3:0

Fall, Spring

* Prerequisite(s): ASL 3310 and University Advanced Standing

Builds on the principles (ASL-to-English and English-to-ASL) for interpreting between Deaf and hearing people taught in Interpreting I. Studies the profession and skills necessary to be an interpreter in more specialized settings such as medical, legal, mental health, and theatre. Includes history, models, and professional certification procedures of interpreting; cognitive processes, physical and psychological factors, intercultural communication, ethics, and situational interpreting. Deaf students are encouraged to enroll. Lab access fee of \$10 applies.

ASL 3350

Consecutive Interpreting

3:3:1

On Sufficient Demand

* Prerequisite(s): ASL 3310, matriculation into the Interpreting Emphasis, and University Advanced Standing

Introduces skills and processes required to produce consecutive interpretations. Focuses on developing basic cognitive, semantic, and dual tasking abilities required to interpret rehearsed and/or spontaneous texts. Teaches to incorporate semantic choice, register, and ethical behavioral decisions and understand how they impact interpretation. Develops sets of technical or field-specific signs and applies these to interpretative work. Includes one-hour per week lab. Taught in ASL. Lab access fee of \$10 applies.

ASL 3360**Simultaneous Interpreting****3:3:1** **Fall, Spring**

* Prerequisite(s): ASL 3350 and matriculation into the Interpreting Emphasis and University Advanced Standing

Introduces skills and processes required to produce simultaneous interpretations. Focuses on transitioning from consecutive interpreting to time-limited simultaneous interpreting. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques. Works with a variety of audience sizes and types. Teaches how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab. Taught in ASL. Lab access fee of \$10 applies.

ASL 3365**Deaf Interpreting in the Community****3:3:1**

* Prerequisite(s): ASL 3310 and University Advanced Standing

Examines the roles, responsibilities and benefits of Certified Deaf Interpreters. Prepares Deaf interpreters for certification as Certified Deaf Interpreters (as recognized by the Registry of Interpreters for the Deaf). Prepares hearing interpreters to work in teams with Deaf interpreters. Examines settings, ethics, roles, theory and hands-on exercises.

ASL 3370**Sign to Voice Interpreting****3:3:1** **Fall, Spring**

* Prerequisite(s): ASL 3360 and matriculation into the Interpreting Emphasis and University Advanced Standing

Introduces skills and processes required to produce conceptually accurate and linguistically appropriate voice interpretations of ASL texts. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques. Works with a variety of audience sizes and types. Teaches how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab. Lab access fee of \$10 applies.

ASL 3380**Transliteration****3:3:1** **Fall, Spring**

* Prerequisite(s): ASL 3360, matriculation into the Interpreting Emphasis and University Advanced Standing

Introduces skills and processes required to produce conceptually accurate and linguistically appropriate messages using ASL signs in an English word order. Develops cognitive, semantic, and dual tasking abilities required to interpret spontaneous texts. Teaches and incorporates more advanced semantic choices and negotiation techniques. Works with a variety of audience sizes and types. Teaches how ethics impact behavioral decisions and interpretations. Gives more consideration to developing sets of technical or field-specific signs and applying these to interpretative work. Includes one-hour per week lab. Lab access fee of \$10 applies.

ASL 3390**Professional Issues in Interpreting****3:3:0** **On Sufficient Demand**

* Prerequisite(s): ASL 3310 and University Advanced Standing

Provides students advanced study and skills development in the business and profession of interpreting, decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, and negotiation of the complex and growing field of interpreting. Students develop the understanding of the day to day demands of the work needed become truly professional interpreters. Provides extensive individual feedback. Lab access fee of \$10 applies.

ASL 3510**History of Deaf People to 1817****3:3:0** **Fall, Spring**

* Prerequisite(s): ASL 202G or equivalent knowledge and University Advanced Standing

Explores chronologically to 1817 the formation and treatment of the Deaf community and culture. Emphasizes the rise of deaf education in a European setting and on the links to American Deaf education. Examines perceptions of deaf people and language across this period. Taught in ASL.

ASL 3520**History of Deaf People after 1817****3:3:0** **Fall, Spring**

* Prerequisite(s): ASL 202G or equivalent and University Advanced Standing

Explores the evolution and treatment of the Deaf community and culture emphasizing activities in the United States chronologically from 1817 onward. Emphasizes the rise of oralism, the development of deaf residential schools, the emergence of American Deaf culture and the recognition of ASL as a true language. Taught in ASL.

ASL 3530**Modern Deaf Culture****3:3:0** **Fall, Spring**

* Prerequisite(s): ASL 202G or equivalent knowledge and University Advanced Standing

Explores the culture of the American Deaf people following the recognition of American Sign Language as a legitimate, naturally-occurring sign language. Examines constructions of Deaf people as a linguistic minority whose mores, beliefs, values and traditions emanate from a shared worldview that differs markedly from the view usually ascribed to them by non-intimates. Taught in ASL. May be delivered hybrid and/or online.

ASL 3610**ASL Literature****3:3:0** **Fall, Spring**

* Prerequisite(s): ASL 3050 and University Advanced Standing

Explores the dynamics of ASL literature and its traditions by studying various genres and ASL storytellers. Uses the similarities and differences in the development of traditional oral literature in other cultures to ASL literature as a tool in discussions and critiques. Covers general narratives and the unique aspects and techniques of telling stories in sign language. Teaches how to critique and to produce ASL literature. Taught in ASL. May be delivered hybrid and/or online.

ASL 3710**Deaf View/Image Art--De'VIA****3:3:0** **Fall**

* Prerequisite(s): ASL 3050 and (ASL 3510 or 3520 or 3530) and University Advanced Standing

Explores the role of visual arts in the Deaf-World with particular attention to Deaf/View Image Art (De'VIA) whose subject matter and style represent a Deaf worldview. Examines the historical contributions of early Deaf artists in various art periods. Takes as a reference other art movements stemming from oppression. Studies various artworks as well as Deaf artists' descriptions of their work, including their aims, motivations, and challenges. Taught in ASL. May be delivered hybrid.

ASL 3750**Deaf Cinema****3:3:0** **Spring**

* Prerequisite(s): ASL 3050 and University Advanced Standing

Examines the critical role film plays in Deaf culture and the Deaf community. Uses film as a background to critically think about and address key issues that Deaf people encounter in society. Studies various lenses of Deaf themes and Deaf characters in movies, as well as how Deaf people have been involved with creating movies throughout history and contrasts this with the ways film has been a mold for the ideology and identity of Deaf people. Introduces concepts of film composition and critiquing tools. Taught in ASL. May be delivered hybrid.

ASL 385G**Audism/Linguicism/Oppression****3:3:0** **Fall, Spring**

* Prerequisite(s): [ASL 3050 and (ASL 3510 or ASL 3520 or ASL 3530) or department approval] and University Advanced Standing

Examines oppression in various forms through a comparative study spanning across cultures and communities. Examines the parallels between widely-understood forms of oppression and those specific to the Deaf-World. Fulfills Global/Intercultural graduation requirement.

ASL 415R**ASL Conversation IV****1:1:0**

* Prerequisite(s): ASL 3050 and University Advanced Standing

Offers intermediate/advanced ASL users opportunities to enhance their proficiency in the target language by focusing on production. Centers on discussions from a selected reading list in 'book club' form. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen comprehension for natural conversational flow. Contrasts with all other upper division ASL courses which are more content based. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of conversational opportunities. May be repeated for a maximum of 3 credits toward graduation.

Course Descriptions

ASL 4330

Visual Linguistic Analysis for Interpreters

3:3:1 Fall, Spring

* Prerequisite(s): ASL 3350, matriculation into the Interpreting Emphasis and University Advanced Standing

Teaches necessary processing skills related to interpreting from Sign to spoken languages including ability to concentrate and analyze visual linguistic and non-manual markers. Analyzes discourse focusing on context, linguistics and culture. Lab required. Lab access fee of \$10 applies.

ASL 4360

Legal Interpreting

3:3:0 On Sufficient Demand

* Prerequisite(s): ASL 3350 and matriculation into the Interpreting Emphasis and University Advanced Standing

Provides a conceptual understanding of the American legal system, and the unique cultural challenges related to interpreting for parties within the system. Examines both the law and Deafness and the areas of language and cultural mediation required to effectively facilitate communication between people who are Deaf and people who are hearing in legal settings. Lab access fee of \$10 applies.

ASL 4370

Ethics for Interpreters

3:3:0 Spring

* Prerequisite(s): ASL 3310 and University Advanced Standing

Provides students advanced study and skills development in ethical decision making while interpreting between Deaf (including Deaf-blind) and hearing populations, including interpreting in: Educational, Higher Ed. Legal, Mental Health and Medical situations. Helps students develop the ethical understanding needed to become truly professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of interpreting ethics. Lab access fee of \$10 applies.

ASL 4380

Applying Interpreting Skills to Coursework--Medical

3:3:0 On Sufficient Demand

* Prerequisite(s): ASL 3350; ASL 3360, matriculation into the Interpreting Emphasis, and University Advanced Standing.

Guides interpreters through skill sets applied to real life classroom lectures, specifically medical and psychology courses offered online through accredited universities. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 4381

Applying Interpreting Skills to Coursework--Law

3:3:0 Fall, Spring

* Prerequisite(s): ASL 3350, ASL 3360, matriculation into the Interpreting Emphasis, and University Advanced Standing.

Guides interpreters through skill sets applied to real life classroom lectures, specifically law and justice courses offered online through accredited universities and sample courtroom scenarios. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 4382

Applying Interpreting Skills to Coursework--Education

3:3:0 On Sufficient Demand

* Prerequisite(s): ASL 3350, ASL 3360, matriculation into the Interpreting Emphasis, and University Advanced Standing.

Guides interpreters through skill sets applied to real life classroom lectures, specifically education and other courses offered online through accredited universities. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 4383

Applying Interpreting Skills to Coursework--Community

3:3:0 On Sufficient Demand

* Prerequisite(s): ASL 3350, ASL 3360, matriculation into the Interpreting Emphasis, and University Advanced Standing.

Guides interpreters through skill sets applied to real life classroom lectures and instruction including business, manufacturing and organizational courses offered online through accredited universities. Requires practical application of specific interpreting skills and techniques as well as course preparation and acquisition of course specific knowledge to develop balanced interpreting practices, including both specific applicable skills in interpretation and a broad based liberal arts knowledge to which the skills are applied.

ASL 439R

Special Topics in Interpreting

3:3:1 On Sufficient Demand

* Prerequisite(s): ASL 3310 and University Advanced Standing

Provides students advanced study and skills development in interpreting between deaf (including deaf-blind) and hearing populations. Focuses on different topics as deemed appropriate (e.g., variety of academic, business, or social contexts). Helps students in the Advanced Certification Interpreter Preparation Program (ACIPP) to become bona fide professional interpreters. Provides extensive individual feedback to rapidly improve students' interpreting skills and understanding of the complex nature of the interpreting process. Repeatable up to 9 credits toward graduation. Lab access fee of \$10 applies.

ASL 4410

ASL Linguistics

3:3:0 Fall, Spring

* Prerequisite(s): ASL 3050 and University Advanced Standing

Introduces the linguistic study of ASL, including phonology, morphology, syntax, semantics, and discourse structure. Emphasizes grammatical structures of ASL, including sign formation, pronominalization, identification and analysis of subjects and objects, classifiers, depicting verbs, pluralization, time concepts, and social interaction of language and culture within Deaf communities. Taught in ASL.

ASL 4450

Deaf World Discourse

3:3:0 Fall

* Prerequisite(s): ASL 3050 and University Advanced Standing

Examines the discourse practices of the Deaf-World. Studies the ways that Deaf people use discursive forms to accomplish specific social aims. Explores the semiotic connections between discursive forms and various Deaf-World identities. Adopts an anthropological bias toward real-world discourse as primary data, and prepares students to do ethnographic fieldwork in the Deaf-World. Taught in ASL.

ASL 4520

Deaf People and Disability Studies

3:3:1 Fall, Spring

* Prerequisite(s): ASL 3050 and University Advanced Standing

Introduces the field of disability studies and shows where Deaf people fit within this field. Explores the historical, social, political, religious, philosophical, and cultural influences that construct and influence the categories of "disability" and "deafness." Examines the complex relation between Deaf and disability rights groups as well as how Deaf persons and persons with disabilities construct their own meanings and identities. Taught in ASL.

ASL 4530

Deaf Peoples of the World

3:3:0

* Prerequisite(s): ASL 3530 and University Advanced Standing

Explores the lives of Deaf people in various places around the world. Considers the extent to which the deaf experience is cross-cultural and to what extent it is unique to specific locations. Explores the lifestyles, educational opportunities, political climate and level of community development of deaf people across the globe. Seeks to illuminate areas of overlap and of difference among the worldviews of various communities.

ASL 4550

Multicultural Deaf Lives

3:3:0 Fall, Spring

* Prerequisite(s): ASL 3050 and University Advanced Standing

Focuses on cultural issues, values, behaviors, identities and language of Deaf people from diverse backgrounds. Examines autobiographies, documentaries, films, videos, and academic literature to help understand the contributions and historical development of the emerging majority of the Deaf community that is underrepresented in the United States and the world. Taught in ASL. May be delivered online.

ASL 4560
Deaf People and the Law
3:3:0 **Spring**
 * Prerequisite(s): ASL 3050 and University Advanced Standing

Focuses on the impact of laws and the legal system in the lives of people who are Deaf and the role such laws and the legal system play in the general understanding of Deafness in the United States. Explores in detail the rights of persons who are Deaf in a hearing world. Taught in ASL.

ASL 4610
ASL Literature II
3:3:0 **Spring**
 * Prerequisite(s): ASL 3610 and University Advanced Standing

Explores the dynamics of ASL literature and its traditions by studying various genres and ASL storytellers/poets. Covers stories with handshape constraints, poetry, and songs. Taught in ASL. May be delivered hybrid and/or online.

ASL 4800
Deaf Culture Studies
3:3:0 **Fall, Spring**
 * Prerequisite(s): (ASL 3510 or 3520 or 3530) and University Advanced Standing

Explores advanced concepts relative to American Deaf culture, including cultural conflicts, tensions, and contradictions. Provides a comprehensive study of the Deaf-World through analysis of historical events, current issues, and the expressions of Deaf people themselves. Taught in ASL. Lab access fee of \$10 applies.

ASL 4850
Advanced Understanding of Oppression and Audism
3:3:0
 * Prerequisite(s): ASL 385G and University Advanced Standing

Examines the various ways in which hearing people oppress Deaf people. Explores different avenues through which society has built a system of privilege based on an audiocentric center. Also examines how certain members of the Deaf community internalize audist constructions of deafness.

ASL 4890
Deaf Studies Senior Capstone
3:3:0
 * Prerequisite(s): Senior status and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): ASL 4800

Engages students in a synthesis and critical review of what they have learned through coursework. Produces a project or thesis reflecting students' knowledge and passionate interests developed in the course of their study as a Deaf Studies major. Taught in ASL.

ASL 490R
Special Topics in Deaf Studies
1 to 3:1 to 3:0 to 1 **On Sufficient Demand**
 * Prerequisite(s): ASL 3050 and University Advanced Standing

Presents selected topics in Deaf Studies. Varies each semester. Topics will reflect the interdisciplinary nature of the Deaf Studies field. Projects and evaluation will vary according to the topic. May be repeated for a maximum of 9 credits with different topics.

ASL 495R
Independent Study in Deaf Studies
1 to 3:1 to 3:0 **On Sufficient Demand**
 * Prerequisite(s): For Deaf Studies students only; Instructor approval, Program Coordinator/Department Chair approval, and University Advanced Standing

Provides independent study as directed in reading and individual projects specifically related to the Deaf Studies field at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 6 credits toward graduation.

Astronomy (ASTR)

ASTR 1040 **PP**
Elementary Astronomy
3:3:0 **Fall, Spring, Summer**

Introduces astronomy and cosmology. Provides a physics-based overview of the solar system, the lives and deaths of stars, galaxies, and the evolution of the Universe. Explores the basic principles of physics and light, the tools of astronomy, and interesting concepts such as the Big Bang and black holes. Canvas Course Mats \$67/Pearson applies

ASTR 104H
Elementary Astronomy PP
3:3:0 **Spring**
 * Prerequisite(s): MATH 1050 or MATH 1055

As an honors section, this course requires a greater level of engagement and greater level of proficiency on the part of the student. Introduces astronomy and cosmology. Provides a physics-based overview of the solar system, the lives and deaths of stars, galaxies, and the evolution of the Universe. Explores the basic principles of physics and light, the tools of astronomy, and interesting concepts such as the Big Bang and black holes.

ASTR 1050 **PP**
Investigations of the Solar System
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): MAT 1030 or any higher mathematics

Offers a descriptive and conceptual survey of the solar system. Describes the probable origin and evolution of the sun and planets, and the workings of the sun. Covers light, optics and spectroscopy, and the mechanics of orbital motion. Compares planets by their origins, structures and atmospheres. While the presentation is primarily qualitative, assumes rudimentary math skills on the part of the student to facilitate comparative studies of solar system objects.

ASTR 1060 **PP**
Investigations of Stars and Galaxies
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): MAT 1030 or any higher mathematics

Describes the origins and evolutions of stars, and collections of stars, galaxies and clusters of galaxies. Includes introduction to cosmology. Teaches the law of gravity and those laws of physics connected with optics and spectroscopy. Emphasizes conceptual learning, and assumes rudimentary mathematical skills on the part of students to facilitate comparative studies.

ASTR 1070 **PP**
Cultural Astronomy in Our Lives
3:3:0 **Spring**

Explores the visible sky as seen with the naked eye. Presents examples of cultural interpretations of the sun, moon, planets and stars, methods of keeping calendars, and changes that occur through the seasons. Studies the motions of the planets, including the earth, and changes in the sky from different latitudes. Investigates how astronomy has impacted the lives of people throughout the ages and around the world. Includes extensive use of the UVU planetarium, nighttime observation, illustrated lectures, and class demonstrations. Canvas Course Mats \$67/Pearson applies

ASTR 107H **PP**
Cultural Astronomy in Our Lives
3:3:0 **On Sufficient Demand**

Explores the visible sky as seen with the naked eye. Presents examples of cultural interpretations of the sun, moon, planets and stars, methods of keeping calendars, and changes that occur through the seasons. Studies the motions of the planets, including the earth, and changes in the sky from different latitudes. Investigates how astronomy has impacted the lives of people throughout the ages and around the world. Includes extensive use of the UVU planetarium, nighttime observation, illustrated lectures, and class discussion.

ASTR 1080 **PP**
Life in the Universe
3:3:0 **Fall**

Presents a general introduction to the scientific method of understanding life, its origins, and its place in the universe. Discusses the philosophy governing the scientific view of learning about life. Treats in detail what life is, the adaptability of life and how it evolves, why Earthlike conditions resulted in life as we know it, what other environmental conditions might sustain life, and where life may be found beyond Earth.

ASTR 2040
Intermediate Astronomy
3:3:0 **Fall, Spring**
 * Prerequisite(s): PHYS 2210

Introduces astronomy and cosmology with an emphasis on the physical principles underlying astronomical phenomena. Provides a physical and mathematical overview of the solar system, the nature and evolution of stars, galaxies, dark matter and dark energy, the large scale structure of the Universe, the Big Bang, and Inflation.

ASTR 290R
Independent Study
1 to 5:0 to 5:0 to 15 **On Sufficient Demand**

For students interested in advanced topics in astronomy and cosmology. Students may choose their own course of study under the guidance of an assigned faculty member.

ASTR 3050
Astrophysics I
3:3:0 **Fall**
 * Prerequisite(s): PHYS 2220, MATH 1220, and University Advanced Standing

Covers the physics of stars, stellar structure and evolution, and the solar system. Treats in detail the current methods of astronomical data collection and analysis. Discusses the mathematics of the laws of stellar structure and their implications for the birth, life, and death of stars.

Course Descriptions

ASTR 3060

Astrophysics II

3:3:0 **Spring**
* Prerequisite(s): PHYS 2220, MATH 1220, ASTR 3050, and University Advanced Standing

Covers the physics of galaxies and cosmology. Treats in detail the current methods of astronomical data collection and analysis as it relates to these topics. Discusses the mathematics of the Theories of Relativity and its implications for the origin and structure of the Universe.

ASTR 4350

Research Methods in Astronomy

3:1 to 2:2 to 4 **On Sufficient Demand**
* Prerequisite(s): ASTR 3050, University Advanced Standing, and Department and Instructor Approval

Presents directed topics in research methods in astronomy. Prepares students to conduct astronomy research projects. Emphasizes practical methodologies in measurement, software, error analysis, and statistical analysis. Requires a class project. May require use of specialized astronomical image processing software (e.g., IRAF and PyRAF) and other programming languages. Includes practice producing oral presentations, posters and journal articles using contemporary software and LaTeX.

Auto Mechanics (AUT)

AUT 1000

Survey of Automotive Technology

2:2:0 **Fall, Spring**

An introductory course for those interested in Automotive Technology. Presents basic automotive repair lessons on ignition and fuel systems, brakes, CV joints, and emissions for state inspections. Discusses electrical accessories, computerized engine controls, and chassis components.

AUT 100L

Survey of Automotive Lab

1:0:3 **Fall, Spring**

* Corequisite(s): AUT 1000

Introductory course for those interested in Automotive Technology. Offers basic automotive repair lab experiences on proper and safe equipment usage, vehicle construction, engine operation, steering and suspension components, brakes, measuring and diagnostic tools. Tool room fee of \$19 for equipment applies.

AUT 1110

Brake Systems

2:2:0 **Fall, Spring**

* Corequisite(s): AUT 111L Recommended

For automotive majors and other interested community members. Covers the principles of automotive braking including hydraulic theory, diagnosis, and service of brake systems. Studies drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Discusses tire construction including both lateral and radial run out and wheel balancing techniques. Software fee of \$10 applies Lab access fee of \$15 for computers applies.

AUT 111L

Brake Systems Lab

1:0:3 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): AUT 1110

Provides hands on brake systems instruction, including drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Labs include tire construction, both lateral and radial run out and wheel balancing techniques. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for computers applies.

AUT 1120

Manual Power Trains

2:2:0 **Fall, Spring**

* Corequisite(s): AUT 112L Recommended

For automotive majors and other interested community members. Designed to develop skills and knowledge in the area of manual transmission/transaxles and driveline components. Covers the function, construction, operation, inspection, troubleshooting and servicing of front, rear, and four-wheel drive power transmission devices used in passenger cars and light trucks. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 112L

Manual Power Trains Lab

1:0:3 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): AUT 1120

Define diagnosis and repair of manual transmissions including transaxles, differentials, drive shafts, and four wheel drive components. Operation of clutches with torque and gear application. Tool room fee of \$19 for equipment applies. Course Lab fee of \$16 for materials applies.

AUT 1130

Engine Repair

2:2:0 **Fall, Spring**

* Corequisite(s): AUT 113L Recommended

Offers an in-depth study of design, operation, troubleshooting, and service procedures for modern gasoline and diesel engines. Presents procedures for disassembly and reassembly of engine units, service, and technical data. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 113A

Engine Repair

2:1:3 **Fall, Spring**

For automotive majors and other interested community members. Studies construction, operation, and performance of various types of engines. Covers the theory of combustion, and characteristics of fuels, lubrication systems, cooling systems, timing valves, and wear problems with all other parts of the engine. Includes lab experience. Tool room fee of \$10 for equipment applies.

AUT 113B

Engine Repair

2:1:3 **Fall, Spring**

Designed for anyone interested in small-engine repair. Includes hands-on application with shop time. Offers practical information about small engines, theory, operations, and maintenance. Provides information, troubleshooting and service techniques for snowmobiles, 4-wheelers, personal watercraft, mowers, tillers, and other small engine applications.

AUT 113L

Engine Repair Lab

1:0:3 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): AUT 1130

Provides a laboratory experience enhanced by following the Engine Repair ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 1160

Automotive Electrical Systems

2:2:0 **Fall, Spring, Summer**

* Corequisite(s): AUT 116L Recommended

Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm's Law, magnetism, inductance, capacitance, electronic devices, schematic user's information, test procedures, test equipment, and batteries.

AUT 116L

Automotive Electrical Systems Lab

1:0:3 **Fall, Spring, Summer**

* Prerequisite(s) or Corequisite(s): AUT 1160

Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm's Law, magnetism, inductance, capacitance, electronic devices, schematic user's information, test procedures, test equipment, and batteries. Lab exercises are correlated with the Automotive Service Excellence (ASE) P1 task list. Lab work will include activities on lab circuitry and live vehicles. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 1170

Engine Electrical Systems

2:2:0 **Fall, Spring, Summer**

* Prerequisite(s): AUT 1110, AUT 1120, AUT 1130, and AUT 1160

* Corequisite(s): AUT 117L Recommended

Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment.

AUT 117L

Engine Electrical Systems Lab

1:0:3 **Fall, Spring, Summer**

Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging systems and battery testing using a variety of diagnostic test equipment. Proper use of diagnostic test equipment in the lab and on vehicle systems will be stressed. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 1210**Suspension and Steering Systems****2:2:0** **Fall, Spring**

* Corequisite(s): AUT 121L Recommended

Discusses nomenclature, theory of operation, and service procedures for passenger car and light-truck suspensions and computer controlled power steering systems. Includes instruction in two-wheel and four-wheel electronic systems. Presents methods of alignment including computerized alignment and service tools. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 121L**Suspension and Steering Systems Lab****1:0:3** **Fall, Spring**

* Prerequisite(s) or Corequisite(s): AUT 1210

Provides a laboratory experience enhanced by following the Suspension and Steering ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 1220**Automatic Transmissions and Transaxles****2:2:0** **Fall, Spring**

* Prerequisite(s): AUT 1110, AUT 1120, AUT 1130, and AUT 1160

* Corequisite(s): AUT 122L Recommended

Studies diagnosis, repair, and adjustment of many automatic transmissions and transaxles. Covers planetary gearing, hydraulic theory, strategies for operation, and service of many domestic and imported passenger car and light-truck vehicles. Introduces electronic control theory. Software fee of \$10 for applies. Lab access fee of \$15 for computers applies.

AUT 122L**Automatic Transmissions and Transaxles Lab****1:0:3** **Fall, Spring**

* Prerequisite(s) or Corequisite(s): AUT 1220

Provides a laboratory experience enhanced by following the Automatic Transmissions and Transaxles ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training. Tool room fee of \$19 for equipment applies. Course Lab fee of \$19 for materials applies.

AUT 1230**Engine Performance****2:2:0** **Fall, Spring**

* Prerequisite(s): AUT 1110, AUT 1120, AUT 1130, and AUT 1160

* Corequisite(s): AUT 123L Recommended

Studies electrical and fuel systems fundamentals found on passenger cars, light-trucks, and marine applications of theory, operation, and construction. Includes solid state electronic ignition systems. Teaches tune-up including diagnosis and troubleshooting. Computerized fuel injection found on gasoline and diesel engines will also be studied. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 123A**Engine Performance****2:1:3** **Fall**

For automotive majors and other interested community members. Studies electrical and fuel system fundamentals including theory, construction and principles of operation. Covers batteries, lighting, starting, and charging. Includes all solid state electronic and ignition systems. Teaches tune-up including diagnosis and troubleshooting. Studies computerized ignition and fuel injection. Includes lab experience.

AUT 123B**Engine Performance 2nd Half****2:1:3** **Spring**

Includes advanced instruction in engine performance, starting systems, charging systems, and indicator circuits. Discusses all mechanical and electronic parts of the vehicle relative to quality engine tune-up and diagnostic instruction. Includes lab experience.

AUT 123L**Engine Performance Lab****1:0:3** **Fall, Spring**

* Prerequisite(s) or Corequisite(s): AUT 1230

Provides a laboratory experience enhanced by following the Engine Performance ASE task list. Emphasizes demonstrations, observations and hands-on participation. Utilizes actual vehicle systems of major manufactures to supplement training. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 1260**Tech Math for Mechanics****3:3:0** **Fall, Spring**

For students in Automotive, Collision Repair, and Diesel Mechanics technology majors. Covers principles of math as required by the industry. Studies pressures, measuring engine and horsepower output, hydraulics, torque, and electrical flow. Includes solving equations in percent, proportion, variation, formula rearrangement, function and graphs with right and oblique triangles. Successful completers should be able to solve problems on the job using technical and mathematical data.

AUT 201L**Automotive Service Practicum Engine Performance and Steering Suspension****2:0:6** **Fall**

* Prerequisite(s): AUT 1210, AUT 1230 with a grade of C- or better

Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Steering/Suspension and Engine Performance. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 202L**Automotive Service Practicum Emission Controls and Chassis Electronics****2:0:6** **Fall**

* Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or better

Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Emission Control Systems and Chassis Electrical. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 203L**Automotive Service Practicum Brake Systems and Transmission Controls****2:0:6** **Spring**

* Prerequisite(s): AUT 1110, AUT 1160, AUT 1220 with a grade of C- or better

Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Automatic Transmissions and Brake Systems including Anti-Lock and Traction Control. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 204L**Automotive Service Practicum Fuel Management Systems and HVACR****2:0:6** **Spring**

* Prerequisite(s): AUT 1160, AUT 1230 with a grade of C- or better

Includes field type service work in an instructional setting. Emphasizes vehicle service needs which are most frequently required in modern commercial service centers. Requires the diagnosis and repair of computerized vehicle systems. Includes standards for quality and quantity of work produced. Studies parts procurement, estimates, repair orders, and customer relations. Follows ASE P2 Performance Tasks for Engine Performance and Heating, Ventilation and Air Conditioning Systems. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 2110**Advanced Steering Suspension and Alignment****2:2:0** **Fall**

* Prerequisite(s): AUT 1210, AUT 1160 with a grade of C- or better

* Corequisite(s): AUT 201L Recommended

Discusses advanced theory of two-wheel and four-wheel alignment. Studies nomenclature, theory of operation and service procedures for mechanical, electronic, and electrical parts of automotive steering and suspension systems. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

Course Descriptions

AUT 2120

Advanced Engine Performance

2:2:0 **Fall**
* Prerequisite(s): AUT 1130, AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 202L Recommended

Includes advanced instruction in engine performance, indicator circuits and On-Board Diagnostics II (OBD-II). Discusses mechanical and electronic parts of the vehicle relative to quality engine tune-up and diagnostic instruction. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 2130

Advanced Emission Control Systems

2:2:0 **Fall**
* Prerequisite(s): AUT 1130, AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 202L Recommended

Studies emissions control systems on vehicles. Reviews county emissions certification requirements. Emphasizes the pre and post testing of the different emission systems and the control of the systems as they apply to different types of fuel systems. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 2140

Chassis Electrical and Electronics Systems

2:2:0 **Fall**
* Prerequisite(s): AUT 1160, AUT 1170 with a grade of C- or better
* Corequisite(s): AUT 202L Recommended

Studies theory, diagnosis, and repair of chassis electrical and electronic systems. Includes the study of lighting systems, electronic dash circuits, inflatable restraint systems, electronic cruise control systems and other accessories found on vehicles.

AUT 2210

Advanced Braking and Control Systems

2:2:0 **Spring**
* Prerequisite(s): AUT 1110, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 203L Recommended

An in-depth study of the theory, diagnosis, and repair of electronic controlled braking systems. Includes the study of anti-lock brakes, traction control systems, stability control systems and other control systems found on vehicles. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 2220

Automatic Transmissions and Electronic Controls

2:2:0 **Spring**
* Prerequisite(s): AUT 1220, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 203L Recommended

Includes advanced instruction in rear-wheel drive and transaxle automatic transmissions for passenger cars and trucks (light-duty and medium-duty). Studies computerized transmission controls for shifting and torque converter operation. Stresses service, diagnosis and troubleshooting using electronic test equipment. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 2240

Heating Ventilation Air Conditioning and Refrigeration Theory

2:2:0 **Spring**
* Prerequisite(s): AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 204L Recommended

Offers an In-depth study of automotive heating, ventilation, air conditioning (A/C), and refrigeration systems. Includes theory of operation, diagnosis and repair of HVACR systems. Environmental safety issues are stressed including laws and regulations, CFC recovery and recycling, ozone depletion, and new, environmentally friendly, systems. Computerized automatic temperature controlled systems are also covered. Stresses service, diagnosis and troubleshooting using electronic test equipment. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

AUT 224L

Automotive HVAC Lab

1:0:3 **Spring**
* Corequisite(s): AUT 2240

This course provides a laboratory experience for Heating, Ventilation, and Air Conditioning lecture (AUT 2240). Studies and provides experience with R12 and 134a refrigerants, environmental issues, retrofit assemblies, evacuation and charging AC systems, and problem solving of AC systems. Course Lab fee of \$17 for materials applies.

AUT 2250

Electronic Fuel Management Systems

2:2:0 **Spring**
* Prerequisite(s): AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 204L Recommended

Studies automotive fuel controls with particular emphasis placed on micro-processor control systems. Studies electronic and mechanical sensors of fuel and ignition systems. Also covers alternative fuel systems. Stresses service, diagnosis and troubleshooting using electronic test equipment.

AUT 2350

Electronic Diesel Fuel Management Systems

2:2:0 **On Sufficient Demand**
* Prerequisite(s): AUT 1230, AUT 1160 with a grade of C- or better
* Corequisite(s): AUT 204L Recommended

Studies automotive diesel fuel controls with particular emphasis placed on micro-processor control systems. Studies electronic and mechanical sensors of diesel fuel and ignition systems. Covers alternative diesel fuel systems i.e. bio-diesel. Stresses service, diagnosis and troubleshooting using electronic test equipment.

AUT 281R

Cooperative Work Experience

1 to 8:0:5 to 40 **Fall, Spring, Summer**
* Corequisite(s): AUT 285R

Designed for Automotive Technology majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated as desired for interest. May be graded credit/no credit.

AUT 285R

Cooperative Correlated Class

1:1:0 **Fall, Spring, Summer**
* Corequisite(s): AUT 281R

Designed for Automotive Technology majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Coop coordinator. Included lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated as desired for interest.

AUT 299R

SkillsUSA

1:1:0 **Fall, Spring**

Designed for Automotive Technology majors. Supports and facilitates the goals and objectives of SkillsUSA. SkillsUSA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated as desired for interest.

AUT 3230

High Performance Engines

3:2:3 **Spring**
* Prerequisite(s): AUT 1130, AUT 1230, and University Advanced Standing

Offers a more in-depth study of the design factors that are unique to high output engines and how to modify engines to obtain the desired outcome. Studies the characteristics of various fuels used in high performance engines and their effects. Discusses the implications of service learning and ethics in high performance engine applications. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

AUT 3350

Alternative Fuel Systems

3:3:0 **Fall**

* Prerequisite(s): University Advanced Standing, Junior Standing, and AUT 2250 or AUT 2260 recommended
* Corequisite(s): AUT 2240 recommended

This course is open to all interested students and community members with departmental approval. Studies current and upcoming alternatives to gasoline as a fuel for the transportation industry that are being promoted, used, and developed by sources within and without the mainstream production system. Includes new alternatives such as CNG/Propane, hydrogen, electric, hybrid (both plug-in and non-plug-in), bio-fuels (both diesel and alcohol), diesel, and fuel cells. Discusses the implications of service learning and ethics in alternative fuel powered vehicles.

Autism Studies (AUTS)

AUTS 2500

Understanding the Autism Spectrum

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): ENGL 1010 (with C or higher) or instructor approval.

Discusses autism beginning with the history of the diagnostic category and moving through contemporary issues of etiology, neurobiology, prevalence, assessment, treatment, education, policy, and community impact and inclusion. Emphasizes principles of interdisciplinary care, cultural competence, family centered approaches, and life course perspective.

AUTS 3810

Autism Across the Lifespan I Infants and Children

3:3:0 **Fall, Spring**

* Prerequisite(s): University Advanced Standing

Examines key issues related to infants and children who are diagnosed with an autism spectrum disorder and the impact on family and communities. Emphasizes principles of interdisciplinary care, cultural competence, family centered approaches, and life course perspective. Requires a 20-hour service learning component.

AUTS 3820

Autism across the Lifespan II Teens and Adults

3:3:0 **Spring**

* Prerequisite(s): University Advanced Standing

Examines key issues related to teens and adults diagnosed with an Autism Spectrum Disorder and the impact on family and communities. Emphasizes principles of interdisciplinary care, cultural competence, family centered approaches, and life course perspective. Requires a 20-hour service learning component.

AUTS 3850

Autism Assessment and Treatment

3:3:0 **Fall**

* Prerequisite(s): University Advanced Standing

Examines best practices in the assessment and treatment of language, adaptive skills, and educational levels. Focuses on the current standards in diagnosing autism. Provides practice opportunities of evidence-based autism treatments.

AUTS 4650

Autism and Applied Behavior Analysis

3:3:0 **Fall, Spring**

* Prerequisite(s): AUTS 2500 or EDSP 3400 and EDSP 3840 and University Advanced Standing

Describes the scientific principles of applied behavior analysis and how they relate to autism intervention. Discusses principles of single case designs, antecedents, reinforcement, consequences, and behavior modification.

AUTS 481R

Field Placement

1 to 8:0:5 to 40 **Fall, Spring**

* Prerequisite(s): AUTS 2500, AUTS 3810, AUTS 3820, AUTS 3850, and University Advanced Standing

* Corequisite(s): AUTS 482R

Provides a generalist base for practice that involves an on-site, supervised field agency practicum. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. Performs hours of supervised practice in a local agency setting. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

AUTS 482R

Group Autism Seminar

1:1:0 **Fall, Spring**

* Prerequisite(s): AUTS 2500 and University Advanced Standing

* Corequisite(s): AUTS 481R or AUTS 485R

* Prerequisite(s) or Corequisite(s): (AUTS 3810 or AUTS 3820 or AUTS 3850 or AUTS 4650 or AUTS 485R)

Provides a generalist base for autism practice in a weekly seminar. Integrates classroom learning with learning that takes place in the on-site field practicum. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

AUTS 485R

Board Certified Assistant Behavior Analyst Individual Supervision

1:1:0 **Fall, Spring**

* Prerequisite(s): Acceptance into Autism Studies program and University Advanced Standing

* Corequisite(s): AUTS 481R and AUTS 482R

Meets the individual supervision requirements designated by the Behavior Analyst Certification Board as part of the Intensive Practicum. Covers all required elements of individual supervision based on the BACB Fourth Edition Task List. May be graded credit/no credit. May be repeated for a maximum of 9 credits toward graduation.

Aviation Science (AVSC)

AVSC 1010

Survey of Aviation Science

2:2:0 **Fall, Spring, Summer**

Designed for all students interested in aviation careers. Includes a general knowledge of aviation, historical events, and aerospace studies/ development opportunities. Studies aviation and aerospace terminology, how aircraft and spacecraft fly, research and development of future systems, government and industry roles in the growth of aviation, and potential careers in aviation. May be delivered online.

AVSC 1020

Aircraft Identification

2:2:0 **On Sufficient Demand**

Introduces skills of aircraft recognition and identification. Teaches identification of aircraft types and purposes available in the aviation world. Develops increased safety skills and the ability to correlate identifications to speed.

AVSC 1030

Aviation Customer Service

3:3:0 **On Sufficient Demand**

Covers the history of customer service in the aviation industry. Introduces flight school and general aviation customer service principles. Studies customer rights and carrier responsibilities. Explores diffusion of confrontational customers. Analyzes airline cultures and resulting effects on employees and customers.

AVSC 1040

In flight Service

3:3:0 **On Sufficient Demand**

Teaches service and safety issues of in-flight service operations. Examines responsibilities and training requirements of in-flight service specialists. Covers applicable federal aviation regulations. Explores labor relations and crew resource management. Discusses abnormal and emergency procedures. Studies passenger safety and security issues as well as service and customer relations.

AVSC 1050

Introduction to Aviation Administration

3:3:0 **Fall, Spring, Summer**

Designed to discuss aviation industry structure, practices, and administrative career opportunities; emphasizes strategic decision making in aviation transportation, manufacturing, airport, and government administration, and provides an overview of various administrative methods, tools, and responsibilities. Provides a general knowledge of aviation administration career options and the role of administrators within the aviation industry. May be delivered online.

AVSC 1100

Ground Private Pilot

4:4:0 **Fall, Spring, Summer**

Introduces the airplane to entry-level student pilots as they prepare for flight training. Stresses airport systems, air traffic control procedures, aviation weather, air navigation, radio communication procedures, and Federal Aviation Regulations. Prepares students for the required FAA Private Pilot Airplane Knowledge Test. May be delivered online.

AVSC 1110

Flight Private Pilot Certification

3:2:3 **Fall, Spring, Summer**

* Prerequisite(s) or Corequisite(s): AVSC 1100

Covers airplane ground and flight operations, take-off and landing, basic flight maneuvers, cross country methods and emergency procedures. Prepares students for the required FAA Private Pilot Airplane Practical Test. May be delivered online. Course fee of \$12,650 for flight applies.

Course Descriptions

AVSC 1120

Basic Aircraft Systems

1:1:0 On Sufficient Demand

* Prerequisite(s): AVSC 1100

Designed to provide a more in-depth knowledge of the basic systems used in piston-powered aircraft. Includes an examination of propeller systems, constant speed propellers, retractable landing gear, electrical systems, cooling, flight control systems, and basic hydraulics. Will help students with oral examinations for the commercial and other flight certificates.

AVSC 1130

Glider Rating

1:1:1 On Sufficient Demand

* Prerequisite(s): AVSC 1100

Prepares student to transition from powered to unpowered glider flight in preparation for the FAA Private Pilot Glider Rating. Includes ground and flight lessons covering glider towing, launching, powered gliders, thermals, weather, landing, mountain waves, regulations, and emergency procedures. Teaches aerodynamic theory associated with more efficient flight and aircraft control.

AVSC 1150

Mountain and Desert Flying

1:1:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 1100 and AVSC 1110

Introduces common flying conditions in mountain and desert areas. Emphasizes flight accident statistics and causes, effects of altitude on aircraft and pilot, mountain associated wake turbulence, techniques for low-altitude search and rescue or photography over mountainous areas, maneuvers, and abnormal or emergency procedures. Includes survival techniques for emergency landings in mountainous or desert terrain.

AVSC 1160

Seaplane Rating

1:1:1 On Sufficient Demand

* Prerequisite(s): AVSC 1100, AVSC 1110

Provides training to aid in the transition from single-engine land to single-engine sea. Stresses the differences between operating on land and over bodies of water. Introduces regulations for seaplane pilots. Provides training in seaplane aircraft with the capability to land and takeoff from water. Prepares the student for the FAA seaplane rating flight test.

AVSC 1220

Ground Commercial Pilot Phase I

1:1:0 On Sufficient Demand

* Prerequisite(s): AVSC 1100 and AVSC 1110

Covers cross-country airplane flight operations. Stresses advanced VFR navigation using dead reckoning, pilotage and radios, flight planning, aircraft performance, weight and balance, aircraft systems, night operations, and emergency procedures for cross-country flight. Includes Federal Aviation Regulations for Commercial Airplane Pilots, advanced aircraft navigational systems, and decision making.

AVSC 1230

Flight Cross Country

2:1:3 Fall, Spring, Summer

* Prerequisite(s): AVSC 1100, AVSC 1110

Prepares students to meet FAA Instrument Airplane and Commercial Airplane Pilot cross-country requirements. Introduces extended cross-country flights in both day and night environments with consideration for passenger safety. Includes operational flight performance using all available navigational weather and airplane performance data. Requires proof of completion of cross country airplane pilot in command time. May be delivered online. Course fee of \$10,409 for flight applies.

AVSC 1240

Ground II - Instrument

4:4:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 1100, AVSC 1110

Covers FAA regulations, meteorology, navigation, radio procedures, instrument departures, en route and approach procedures, the instrument airway, and airspace systems as well as aircraft systems operation. Introduces glass cockpit instrumentation. Covers basic flight instrument construction and operation. Prepares pilots for the required FAA Instrument Pilot Airplane Knowledge Test. May be delivered online.

AVSC 1250

Flight: Instrument Pilot

3:2:2 Fall, Spring, Summer

* Prerequisite(s): AVSC 1100, AVSC 1110

Stresses attitude instrument flying techniques, instrument departure and approach procedures, and instrument en route and cross-country navigation techniques while in actual or simulated weather conditions with reference solely to the flight instruments. Prepares students for the required FAA Instrument Airplane Practical Test. May be delivered online. Course fee of \$12,150 for flight applies.

AVSC 1260

21st Century Avionics and Instrumentation

1:1:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 1100

Provides pilots with the knowledge and practical experience using new generation glass cockpit electronic instrumentation and radio navigation devices. Includes glass cockpit system knowledge, functions, safety, flight planning, crew concepts, and the use of GPS technology. Requires flight, flight training device, or computer based instruction and experience to meet FAA standards for transition to this technology. May be delivered online.

AVSC 1310

AMT Procedures and Practices A

5:5:0 On Sufficient Demand

For Aviation Maintenance Technician Apprentice students. Introduces students to the aviation maintenance environment. Studies common procedures and practices in the industry, the use of tools and measurement devices, and Federal Aviation Regulation related to technician certification and inspections. Includes maintenance forms and record keeping, and weight and balance publications.

AVSC 1320

AMT General Knowledge A

5:5:0 On Sufficient Demand

For Aviation Maintenance Technician Apprentice students. Introduces general processes used by the Aviation maintenance Technician. Introduces aircraft electrical principles including the devices and procedures used in analyzing aircraft electrical systems. Covers materials and processes used in aircraft maintenance. Develops basic science application skills for aircraft maintenance.

AVSC 1330

AMT Airframe Phase I B

5:5:0 On Sufficient Demand

* Prerequisite(s): AVSC 1310, AVSC 1320, Must complete all (a) level AMT apprentice courses with grade of C- or better

For Aviation Maintenance Technician Apprentice students. Introduces students to the basic maintenance and procedures involving the airframes of a variety of aircraft. Discusses composite technology, aircraft finishes, sheet metal, basic structures, welding, and other fasteners.

AVSC 1340

AMT Powerplant Phase I B

5:5:0 On Sufficient Demand

* Prerequisite(s): AVSC 1310, AVSC 1320, Must complete all (a) level AMT apprentice courses with grade of C- or better

For Aviation Maintenance Technician Apprentice Students. Introduces students to the basics of power plant installation, repair, and servicing. Focuses on the reciprocating engine used on certified aircraft. Covers radial engines, basic two- and four-stroke reciprocating engines, engine overhaul, starter and ignition systems, and troubleshooting procedures.

AVSC 2050

Introduction to Aviation Security

3:3:0 On Sufficient Demand

Presents airport, airline, and general aviation security issues. Covers historical hijacking threat, public perception of threat and government response. Examines airport screening processes for passengers and cargo. Explores technology as a tool in security. Discusses cockpit security, pilot and weapons issues, and passenger responsibilities. Examines airport security methods, levels of security, personnel and management issues.

AVSC 2070

Communications for Aviation Professionals

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010 and AVSC 1050

Teaches the skills necessary to effectively communicate with a variety of aviation stakeholders and professionals. Examines principles of written and verbal communication. Covers the planning, organizing and delivery of positive and negative messages. Teaches effective interpersonal and listening skills as well as techniques for adapting the message to the audience. Includes the effective development and delivery of computer-aided presentations. Explores the hazards and impacts of miscommunication on aviation safety. May be delivered online.

AVSC 2090**Air Transport Economics****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 1050 and (MAT 1000 or MAT 1010)

Teaches basic economic concepts as applicable to air transportation. Introduces foundational principles of free enterprise, supply and demand, private and social implications of profit maximization, market structure, resource markets, inflation, economic and industry cycles, inflation and economic growth. Introduces competitive advantage, air transport demand, modeling, pricing, revenue management and supply and route architecture. May be delivered online.

AVSC 2110**Aviation Weather Applications****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 1010, AVSC 1050, and AVSC 1100

Enables the aviation administrator to understand and appreciate the operational and strategic impacts of weather on the aviation industry. Teaches atmospheric composition and structure, climate and synoptic weather, aviation weather reports, forecasts and weather data sources. Requires students to apply these principles in a decision making capacity through weather tracking, planning and decision making activities. May be delivered online.

AVSC 2120**Personal Finance for Aviation Professionals****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 1050, AVSC 1100

Covers financial decision making with a view of financial choices/ alternatives and the impact or consequences of these choices during a student's collegiate and professional career. Includes real life scenarios designed around common challenges and issues. Requires students to create a proposed budget and reconcile expenditures monthly as the course progresses. Explores net worth statements, budgets, taxes, insurance alternatives, and life decisions applicable to finance. May be delivered online.

AVSC 2130**Aviation Safety****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 1010, AVSC 1050, and AVSC 1100

Presents an introduction to aviation safety. Covers agencies overseeing safety at the commercial and general aviation levels as well as the applicable regulations they develop and enforce. Explores general aviation and commercial aviation accident statistics and accident causation models. Discusses airline, airport, aircraft, and air traffic control safety issues. Explores the role of the aviation administrator as a safety advocate and responsible party in a variety of settings. May be delivered online.

AVSC 2150**Air Transportation Management****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 1050, AVSC 1100

Presents the management skills necessary to be a fixed based operator and entry-level manager for scheduled airlines in the national aviation system. Teaches management functions, marketing, financing, organization and administration, flight operations, maintenance, safety, and liability. Provides hands-on experience of management styles through evaluations and critiques of local airlines and airport facilities. Includes a student's simulated model of an FBO and related management operations as a final project. Successful completers should have a basic knowledge of air transportation management. May be delivered online.

AVSC 2160**Aviation Law****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 1050, AVSC 1100

Introduces aviation law and regulations. Studies rights and responsibilities of a pilot in command of an aircraft while operating in a commercial revenue generated environment. Discusses the history of commercial aviation, Air Commerce Act, and government regulatory agencies. Successful completers should have a basic knowledge of federal, state, and international law in order to comply with Federal Aviation Regulations. May be delivered online.

AVSC 2170**Airline Interview Preparation****1:1:0** On Sufficient Demand

* Prerequisite(s): ENGL 1010 and AVSC 2150

Prepares students for the rigors of an airline interview by reviewing important areas: Including but not limited to the Code of Federal Aviation Regulations, aviation meteorology, aircraft systems, crew resource management, and interpersonal skills necessary to successfully obtain an airline or corporate flight crew position. Includes specific resume, background search, and interview preparation procedures.

AVSC 2180**Airline Computer Applications****3:3:0** Fall, Spring, Summer

* Prerequisite(s): Basic Computer Proficiency

Introduces airline computer applications. Explores information management in areas of reservations, planning and scheduling, maintenance, crew management, dining and cabin services and human resources. Covers revenue, customer loyalty and cargo management. Discusses training programs, solution implementation and maintenance costs, as well as consulting services available to airlines.

AVSC 2190**Introduction to Dispatch and Scheduling****3:3:0** On Sufficient Demand

* Prerequisite(s): AVSC 1010

Introduces airline and corporate flight department operations and flight dispatch procedures. Teaches effects of weather, air traffic control and maintenance on fleet logistics. Introduces responsibilities of dispatchers, routers, maintenance controllers, and general system operations. Covers pertinent crew and operational federal aviation regulations. Examines tools and practices of airline system control and corporate flight departments. Explores responsibilities and authority of dispatchers and schedulers.

AVSC 2200**Aviation Marketing****3:3:0** On Sufficient Demand

* Prerequisite(s): ENGL 1010

Teaches principles of aviation marketing and promotional concepts. Covers planning and coordination, advertising and media as well as sales presentations. Explores aviation tradeshows, trade events, and networking as industry marketing tools. Teachers marketing research, financial planning, and transportation methods.

AVSC 2210**AMT Airframe Phase II C****5:5:0** On Sufficient Demand

* Prerequisite(s): AVSC 1330, AVSC 1340, Must complete all (b) level AMT apprentice courses with grade of C- or better

For Aviation Maintenance Technician Apprentice Students. Prepares students for intermediate level understanding of major airframe components and accompanying devices. Includes lessons on structure alignments, aircraft rigging, flight control balance, communications and navigation equipment, brake systems, anti-skid systems, and landing gear position indication.

AVSC 2220**AMT Airframe Phase III D****5:5:0** On Sufficient Demand

* Prerequisite(s): AVSC 2210, AVSC 2230, Must complete all (c) level AMT apprentice courses with grade of C- or better

For Aviation Maintenance Technician Apprentice Students. Final airframe class prepares students to take FAA AMT Airframe Examination. Discusses landing gear systems, hydraulics, fuel systems, pneumatics, fuel dumping, pressurization, environmental controls, and indicator systems. Includes examinations of example aircraft systems in operation.

AVSC 2230**AMT Powerplant Phase II C****5:5:0** On Sufficient Demand

* Prerequisite(s): AVSC 1330, AVSC 1340, Must complete all (b) level AMT apprentice courses with grade of C- or better

For Aviation Maintenance Technician Apprentice Students. Provides students with information and understanding of turbine engines, designs, systems and components. Covers engine installation, accessory devices, lubrication systems, fuel metering, and airworthiness inspections.

Course Descriptions

AVSC 2240

AMT Powerplant Phase III D

5:5:0 On Sufficient Demand

* Prerequisite(s): AVSC 2210, AVSC 2230, Must complete all (c) level AMT apprentice courses with grade of C- or better

For Aviation Maintenance Technician Apprentice Students. Provides intermediate level understanding of engine components, accessories, and their operating principles. Prepares students for the FAA AMT Powerplant Knowledge Examination.

AVSC 2300

Ground Commercial Pilot

3:3:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 1230, AVSC 1240, AVSC 1250

* Corequisite(s): AVSC 2310

Covers privileges, responsibilities and the operational environment of a commercial pilot. Explores application of aeronautical knowledge and skills in simulated commercial operation situations. Develops judgment and decision-making skills. Studies aerodynamics, performance and limitations, weight and balance, aircraft systems, airworthiness, aeromedical factors, night and high altitude operations, weather hazards and reports, airport operations, flight planning, and decision making. Prepares students for the required FAA Commercial Pilot Airplane Knowledge Test. May be delivered online.

AVSC 2310

Flight Commercial Pilot

3:2:3 Fall, Spring, Summer

* Prerequisite(s): AVSC 1230, AVSC 1240, AVSC 1250

* Corequisite(s): AVSC 2300

Includes maneuvers such as steep power turns, steep spirals, slow flight, lazy eights, pylon eights, and chandelles. Includes commercial cross-country, instrument flying skills, and emergency procedures. Prepares students for the required FAA Commercial Pilot Airplane Practical Test. May be delivered online. Course fee of \$14,110 for flight applies.

AVSC 235R

Unusual Attitude Safety Training

1:1:1 On Sufficient Demand

* Prerequisite(s): AVSC 1250

Teaches pilots how to assess various flight situations and take the appropriate action to avoid or recover from any in-flight unusual attitude scenario, includes training not covered by commercial flight courses such as situations involving wake turbulence, wind shear, mountain waves and other wind flow patterns, as well as instrument or control system failure and pilot error may produce unusual attitudes beyond those experience in normal flight. Presented in three phases: for the experience level of the 1) Private Pilot Student, 2) Instrument Pilot Student, 3) Commercial Pilot Student and for the Certified Flight Instructor Student. Course enhances overall pilot skill and increases confidence in all flight conditions. May be repeated for a maximum of 2 credits toward graduation.

AVSC 2400

Ground Certified Flight Instructor

4:4:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 2300, AVSC 2310

* Corequisite(s): AVSC 2410

Provides the foundational knowledge and teaching skills necessary to become an authorized FAA airplane flight instructor. Teaches certification and training requirements for which the student will have instructional privileges. Develops organization and presentation skills required for instructional activity including the application of human behavior and learning principles during instructional activity. Emphasizes training of aviation students to specific standards of competence regardless of the specific instructional privileges carried by the flight instructor. Focuses on the teaching of critical emphasis areas as identified by the FAA. Prepares students for the required FAA Flight Instructor Airplane Knowledge Test and Fundamentals of Instruction Knowledge Test. May be delivered online.

AVSC 2410

Flight Certified Flight Instructor

1:1:1 Fall, Spring, Summer

* Prerequisite(s): AVSC 2300, AVSC 2310

* Corequisite(s): AVSC 2400

Designed for advanced pilots preparing for the Flight Instructor rating. Trains students to discuss and teach while precisely performing maneuvers and maintaining proper operational control. Emphasizes the identification of common student errors and proper correction. Prepares students for the required FAA Flight Instructor Airplane Practical Test. May be delivered online.

AVSC 2420

Ground CFI Instrument

1:1:0 On Sufficient Demand

* Prerequisite(s): AVSC 2300, AVSC 2310

* Corequisite(s): AVSC 2430

Stresses in-depth study of gyroscopic and pressure instruments, attitude instrument flying techniques, IFR departure, en route, arrival and approach procedures, and the teaching of this to other pilots. Discusses Federal Aviation Regulations that apply to instrument flight instruction, flight logbook endorsements and entries, and other directives and publications that apply to airplane instrument flight. Studies the correct procedures for teaching and the analyzing of student errors while performing the required instrument flight maneuvers. Prepares students for the required FAA Flight Instructor Instrument Airplane Knowledge Test. May be delivered online.

AVSC 2430

Flight CFI Instrument

1:1:1 On Sufficient Demand

* Prerequisite(s): AVSC 2300, AVSC 2310

* Corequisite(s): AVSC 2420

Designed for instructor pilots seeking the CFI Airplane Instrument rating. Covers all required instrument flying maneuvers from the right seat of the instrument training airplane such as instrument departures, en route navigation, and instrument approach to landings. Prepares students for the required FAA Flight Instructor Instrument Airplane Practical Test. May be delivered online.

AVSC 2440

Ground Multi Engine

1:1:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 1100, AVSC 1110

Designed for pilots preparing for multi-engine airplane operations. Covers the theory of multi-engine airplane flight and the significant aerodynamic differences between single-engine and multi-engine airplane flight. Includes system operation of constant speed propellers, multi-tank and pump fuel systems, dual electrical systems, turbocharger and ice control systems. Discusses multi-engine weight and balance and use of performance charts. Prepares students for the oral exam portion of the FAA Multi-Engine Airplane Practical Test and Airplane Pilot Knowledge Test.

AVSC 2450

Flight Multi Engine

1:1:1 Fall, Spring, Summer

* Prerequisite(s): AVSC 1100, AVSC 1110

* Corequisite(s): AVSC 2440

Prepares students for flight in complex multi-engine airplanes. Stresses normal and emergency flight procedures and skills demonstrated and practiced for all phases of flight. Includes single-engine operation of a multi-engine airplane in varying flight environments and situations. Discusses complex systems operation as well as instrument flight procedures. Prepares the student for the required FAA Multi-engine Airplane Practical Test. May be delivered online. Course fee of \$14,885 for flight applies.

AVSC 2500

Ground Multi Engine Instructor

1:1:0 On Sufficient Demand

* Prerequisite(s): AVSC 2300, AVSC 2310

* Corequisite(s): AVSC 2510

Presents specific teaching techniques and skills necessary to certify as a flight instructor with a multi-engine airplane rating. Includes a review of the multi-engine airplane pilot certification requirements. Stresses the unique instructional and safety responsibilities with students in multi-engine airplanes. Prepares students for the oral exam portion of the FAA Multi-Engine Airplane Instructor Practical Test. May be delivered online.

AVSC 2510

Flight Multi Engine Instructor

1:1:0 On Sufficient Demand

* Prerequisite(s): AVSC 2300, AVSC 2310

* Corequisite(s): AVSC 2500

Prepares students for various maneuvers and operations necessary to instruct pilots for the FAA Multi-engine Airplane Practical Test. Teaches normal and emergency flight operations and procedures in all the various flight environments and regimes. Teaches the knowledge and skill necessary to operate a multi-engine airplane safely, while instructing multi-engine airplane pilots. Prepares students for the required FAA Multi-engine Airplane Instructor Practical Test. May be delivered online.

AVSC 2710**Aviation Marketing and Customer Service****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2150, AVSC 2160

Teaches principles of aviation marketing, market research and promotional concepts. Covers planning and coordination, advertising, and media as well as sales presentations. Explores aviation trade shows trade events, and networking as industry marketing tools. Covers the history of customer service in the aviation industry. Introduces customer service principles applicable to both general and commercial aviation. Analyzes customer rights and carrier responsibilities and explores diffusion of confrontational customers. Analyzes airline and corporate cultures and resulting effects on employees and customers. May be delivered online.

AVSC 2750**Unmanned Aircraft Systems****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2150, AVSC 2160

Introduces unmanned aircraft systems and applications. Examines the history and development of unmanned aircraft, their systems, technology, training methods, and implementation. Examines the current and future roles these aircraft will take in society and the implications surrounding their increased usage. Explores security, privacy and safety as they relate to the utilization of unmanned aircraft systems in military, law enforcement and civilian applications. Examines challenges and opportunities related to civilian utilization. May be delivered online.

AVSC 276R**Current Topics in Aviation****1 to 3:1 to 3:0** On Sufficient Demand

* Prerequisite(s): AVSC 1050 and AVSC 1100

Selected topics in Aviation Science that will vary from semester to semester. May be repeated with different topic areas for a maximum of six credit hours toward graduation.

AVSC 281R**Cooperative Work Experience****1 to 8:0:5 to 4:0** On Sufficient Demand

Designed for Aviation majors. A current job in an aviation related field required prior to registering for this course. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. (One credit for each five hours of work per week.) May be repeated for a maximum of 8 credits toward graduation. Graded credit/no credit.

AVSC 285R**Cooperative Correlated Class****1:1:0** On Sufficient Demand

* Corequisite(s): AVSC 281R

Designed to enable students with career aspirations in aviation related fields to begin career planning. Enhances a student's knowledge, personal development, professional development and professional preparation by integrating academic study with practical experience and resume preparation. May be repeated for a maximum of 2 credits toward graduation.

AVSC 2860**SkillsUSA****1:1:0** On Sufficient Demand

SkillsUSA includes leadership training, parliamentary procedure, job interview skills, prepared speaking, extemporaneous speaking, and organizational skills. Upon completion, the student should understand the SkillsUSA organization and how it helps to build leadership skills.

AVSC 3010**Flight Environment****3:3:0** Fall

* Prerequisite(s): AVSC 1240 and University Advanced Standing

Teaches interpretation, selection, and compilation of appropriate weather data. Examines METAR, TAF, PIREPS, AIRMET's, SIGMET's and other sources of applicable weather information. Uses sample reports, data, and charts. Includes class and group discussion, lecture, practical example, and case studies. May be delivered online.

AVSC 3020**Aviation Insurance and Risk Management****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2130 and University Advanced Standing

Explores the complexity of aviation risk management from flight operations and aircraft maintenance perspectives. Examines industry insurance practices and standards, including the development of risk management procedures to meet both government and insurance requirements. Analyzes basic underwriting procedures and requirements. Presents basic principles of hazardous materials handling in aviation. May be delivered online.

AVSC 3030**Air Traffic Management****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2150, AVSC 2160, and University Advanced Standing

Teaches tower, approach, and center techniques and terminology. Covers radar and non-radar control environments and the pilot's responsibility in each. Explains effective use of the Air Traffic Control System. Includes lecture, discussion, small group practice, and evaluation. May be delivered online.

AVSC 3040**Air Traffic Control II****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 3030 and University Advanced Standing

Covers advanced air traffic management concepts, weather problems, communications procedures, and technical control skills. Provides simulated air traffic control situations and crisis management skills. Discusses terminal en route procedures and Federal Aviation Regulations. May be delivered online.

AVSC 3060**Airline Management****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2150, AVSC 2160, and University Advanced Standing

Prepares student for management level duties at air carriers. Examines airline operational considerations, regulation, financing, accounting methods, marketing, customer service, profitability, and labor relations. Discusses how some airlines succeed and others fail. Covers code-sharing and airline alliances. May be delivered online.

AVSC 3070**Aviation Cargo Operations****3:3:0** On Sufficient Demand

* Prerequisite(s): AVSC 2150 and University Advanced Standing

Studies air cargo history and industry development. Teaches air cargo scheduling and supply chain administration. Explores aircraft options and conversions and airport and logistical considerations. Discusses shipping and air cargo regulations including hazard material (hazmat) and security issues. Explores domestic and international air cargo considerations.

AVSC 3090**Airline and Dispatch Operations****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2150, AVSC 2160, (AVSC 2110 or AVSC 3010), and University Advanced Standing

Introduces airline and corporate flight department operations and flight dispatch procedures. Teaches effects of weather, air traffic control and maintenance on fleet logistics. Introduces responsibilities of dispatchers, routers, maintenance controllers, and general system operations. Covers pertinent crew and operational federal aviation regulations. Examines tools and practices of airline system control and corporate flight departments. Explores responsibilities and authority of dispatchers and schedulers. May be delivered online.

AVSC 3100**Corporate Aviation Management****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2150 and University Advanced Standing

Introduces basic principles of corporate flight department management. Discusses regulatory requirements in corporate aviation, acquisition procedures, insurance requirements, and pilot certification programs. Explores fractional ownership programs and management.

AVSC 3110**Aviation Security****3:3:0** Fall, Spring, Summer

* Prerequisite(s): AVSC 2150, AVSC 2160, and University Advanced Standing

Presents advanced security issues related to aviation including passenger screening, profiling, hijacking, bomb threats and passenger disruptions. Covers historical incidents and studies a variety of responses to threats from various countries. Discusses the role of the Department of Homeland Security and the Transportation Security Administration. Covers the role of pilots and other flight crew in security, including the Federal Flight Deck Officers Program. Includes a discussion of regulatory issues and laws established since the 9/11 attacks. May be delivered online.

Course Descriptions

AVSC 3120

Airport Management

3:3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 2150 and University Advanced Standing

Explores airport management at both small and large airports. Emphasizes basic requirements and attributes of successful airport managers. Course includes discussion of local and state airport finance and regulatory issues. Discusses pertinent Federal Aviation Regulations and security issues.

AVSC 3140

Fixed Base Operations Management

3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150 and University Advanced Standing

Prepares students for employment and management at a fixed base operation and related general aviation management. Covers the organization, profit, maintenance, and safety systems concerning fixed base operators. Presents pertinent Federal Aviation Regulations, facility management, and advertising issues.

AVSC 3150

Principles of Aviation Management

3:3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 2070 and University Advanced Standing

Teaches principles of aviation management including the management process, decision-making, and organizational structure. Covers leadership skills including communication, fostering team work, conflict resolution, and human resource management. Analyzes the importance of ethics and social responsibility as well as developing and crafting executive strategies. Studies organizational culture and effective management of innovation and change. May be delivered online.

AVSC 3200

Flight Physiology

3:3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 1240 and University Advanced Standing

For pilots with a career goal in commercial Aviation. Teaches physiological and psychological factors that affect pilot performance. Studies issues such as human error, fatigue, fitness, attitudes, training devices, controls, cabin space, and human payload. Includes lecture, demonstration, experiments, group projects, class discussion, and possible guest lecturers.

AVSC 3210

Aircraft Incident and Emergency Management

3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2130 and University Advanced Standing

Teaches how to develop a pre-accident plan addressing the issues of chain and command responsibility, initial response to safety and security issues, and the coordination of human and material resources for public safety. Emphasizes post crash/aircraft incident preservation of forensic evidence. May be delivered online.

AVSC 3220

Aircraft Accident Investigation

3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2130 and University Advanced Standing

Explores the fundamental requirements of aircraft mishap and accident investigation. Covers the initial gathering and preservation of evidence at the crash site, including photographic and videographic documentation, assessing environmental factors, human factor considerations, aircraft maintenance status, and air traffic control considerations.

AVSC 3230

Accident Witness Interviewing

3:3:0 On Sufficient Demand
* Prerequisite(s): (AVSC 3210 or AVSC 3220) and University Advanced Standing

Teaches the currently recommended techniques for conducting an accident witness interview and common mistakes. Presents methods of evaluating and analysis of interview information. Case studies and role playing will be used in classroom exercises.

AVSC 3240

Aviation Accident Reporting

3:3:0 On Sufficient Demand
* Prerequisite(s): (AVSC 3210 or AVSC 3220), ENGL 1010, and University Advanced Standing

Teaches the student a working knowledge of preparing a complete aircraft mishap/accident report that includes the factual information, analysis, and conclusions, including probable causes, and aviation safety recommendations. Involves turning accident investigation data into an accident report.

AVSC 3300

Jet Transport Systems

3:3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 2300, AVSC 2400, and University Advanced Standing

For the commercial pilot desiring training in turbine driven engines, thrust vectoring, pneumatics, electrical, hydraulic, and auxiliary systems. Includes subjects such as pressurization, de-ice and anti-ice, environmental, and warning systems. Utilizes schematic drawings, computer based trainers, and various jet operating manuals. Includes lecture, class discussion, demonstrations, group practice, and possible guest lecturers.

AVSC 3310

Aviation Logistics Management

3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150, AVSC 3150, and University Advanced Standing

Examines functional areas of supply, maintenance, transportation and services at operational, strategic and tactical levels. Covers facilities, manpower, labor relations, financial and system management, contract administration, analytical techniques and decision making. Uses a variety of case studies and examples of various transportation companies, airlines, and support groups. May be delivered online.

AVSC 3320

Aviation Managerial Accounting

4:4:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150 and (MAT 1000 or MAT 1010) and University Advanced Standing

Provides aviation administration students with knowledge of financial, managerial, and basic cost accounting concepts and applications. Introduces basic accounting methods, accounting information systems and the utilization of accounting information in the decision making process. Uses aviation industry case studies and examples. May be delivered online.

AVSC 3350

Aviation Labor and Human Resource

3:3:0 On Sufficient Demand
* Prerequisite(s): AVSC 2150, AVSC 3150, and University Advanced Standing

Focuses on effective management of human resources in the unique environment of the aviation industry. Teaches planning, recruitment, selection, training, development, labor relations, employee benefits and compensation, employee legal issues, termination and unemployment, and applicable state and federal regulations. May be delivered online.

AVSC 3400

High Altitude Navigation International Flight Operations

3:3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 3200 and University Advanced Standing

Covers the advanced navigation systems of commercial aircraft. Explores VOR/DME, Loran-C, IRS (three ring laser gyro), and GPS navigational aids. Teaches the operation of the "Glass Cockpit" flight data center. Explains international flight operations. Uses in class lectures, demonstrations, individual experimentation, and computer based trainer experience. May be delivered online.

AVSC 3530

Advanced Aerodynamics

3:3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 3300, MAT 1010, and University Advanced Standing

For commercial pilots. Teaches the aerodynamics involved in commercial aircraft. Includes aircraft turning and accelerated climb performance, take off velocity, load factors, hypersonic flight, and laminar flow airfoils. Includes demonstration, examples, experiments, and class discussion. May be delivered online.

AVSC 3600

Crew Resource Management

3:3:0 Fall, Spring, Summer
* Prerequisite(s): AVSC 2070 and University Advanced Standing

Explores concepts of Crew Resource Management (CRM). Covers crew coordination, communication, and resource management in a professional aviation atmosphere. Utilizes class discussions, role plays, lecture, guest lecturers, and group experiences.

AVSC 3610

Aviation Safety and Security

3:3:0 On Sufficient Demand

* Prerequisite(s): AVSC 2050 and University Advanced Standing

Explores aviation safety and security in the 21st century. Surveys metallurgy, airframe stress analysis, psychology, pathology, and toxicology, flammable and explosive materials analysis, destructive and non-destructive material analysis as they apply to aviation safety and security.

AVSC 3740

Advanced Methods in Aviation Investigation

3:3:0 On Sufficient Demand

* Prerequisite(s): AVSC 3220 and University Advanced Standing

Teaches current scientific techniques for the analysis of aircraft materials, components, performance and design. Considers aircraft crashworthiness. Discusses the process of establishing facts from analysis and of the findings of an aircraft investigation and probable vs. proximate cause.

AVSC 4020

Applied Aviation Finance

3:3:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 3320 and University Advanced Standing

Examines financial management in the aviation corporate and public sectors and the role of financial markets and institutions. Introduces finance terminology and techniques. Discusses time value of money, fundamentals of security valuation, capital asset pricing model and capital budgeting. Introduces weighted average cost of capital and contrasts debt policy and governance in the public and private aviation sectors.

AVSC 410G

Global Ethical and Professional Issues in Aviation

3:3:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 3030 or 3090, PHIL 2050, and University Advanced Standing

Designed for aviation managers and pilots to develop a global perspective and understanding of key intercultural issues facing aviation. Studies the role of multi-culturalism and globalization, especially where these issues impact safety and the business environment. Includes a study of aviation regulation and scenario-based problem solving skills.

AVSC 4210

Flight: Turbine Transition

1:0:3 On Sufficient Demand

* Prerequisite(s): AVSC 2300, AVSC 2310, and University Advanced Standing

Covers the required training experience in preparation for an FAA airplane type rating practical exam. Includes start up, taxi, take-off, en-route, approach, landing, shutdown, and emergency procedures. Requires individualized instruction in a cockpit procedures trainer, simulator or aircraft. Proof of earned airplane type rating is required.

AVSC 4300

Ground Airline Transport Pilot Aircraft Dispatcher

3:3:0 On Sufficient Demand

* Prerequisite(s): AVSC 3010 and University Advanced Standing

Discusses aircraft aerodynamics, airspace and airports, air traffic control, aviation weather, and aero-medical factors and applicable NTSB and FAA regulations. Analyzes the aspects of decision making and professionalism in aviation. Prepares students for the required FAA Airline Transport Pilot Airplane 121 (ATP); FAA Airline Transport Pilot Airplane (135); or Aircraft Dispatcher (ADX) Knowledge Tests.

AVSC 4310

Flight Airline Transport Pilot

1:0:3 On Sufficient Demand

* Prerequisite(s): AVSC 2300, AVSC 2310, and University Advanced Standing

Focuses on the areas necessary to pass an Airline Transport Pilot Airplane Practical Test. Covers pre-flight, takeoff and departure, in flight maneuvers, instrument procedures, approaches and landings, normal and abnormal procedures, emergency procedures and postflight procedures. Prepares students for the required FAA Airline Transport Pilot Airplane Practical Test.

AVSC 4700

Safety and Professional Seminars

3:3:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 3600 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Includes FAA safety seminars and other professional presentations designed to inform commercial pilots or aviation administration personnel of safety and professional issues affecting employment. Features FAA safety counselors, and other aviation professionals as guest lecturers. May be delivered online.

AVSC 475R

Current Topics in Aviation

1 to 3:1 to 3:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 1010 and University Advanced Standing

Presents selected topics in Aviation Sciences and will vary each semester. Requires a special project related to the area of study. May be repeated with different topic areas for a maximum of 6 credits toward graduation.

AVSC 4800

Professional Pilot Capstone

4:4:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 3300 and University Advanced Standing

Teaches systems, operations and performance limitations of the CRJ. Emphasizes operating practices, along with systems indoctrination, and procedures training. Includes systems and operations common to most turbine and transport category aircraft. Provides insight into the rigors of studying for ground school systems class. Utilizes lecture, demonstration, and cockpit procedure trainers. Student who complete the course should be prepared to pass the applicable written exam. May be delivered online. Software fee of \$100 applies

AVSC 4805

Canadair Regional Jet Orientation

1:0:3

* Prerequisite(s) or Corequisite(s): AVSC 4800

Introduces Canadair Regional Jet aircraft (CRJ) procedures through hands on application in the CRJ flight simulation training device. Provides simulated experience as a pilot in normal, abnormal, and emergency operations. Includes scenario based training in the CRJ200 flight management system (FMS) and other essential systems. Emphasizes crew resource management (CRM) skills in transport category aircraft.

AVSC 481R

Cooperative Work Experience

1 to 8:0:5 to 40 Fall, Spring, Summer

* Corequisite(s): AVSC 485R

For upper division Aviation majors. A current job in an aviation related field required prior to registering for this course. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. (One credit for each five hours of work per week.) May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

AVSC 485R

Cooperative Related Class

1:1:0 On Sufficient Demand

* Prerequisite(s): Current job in an aviation related field and University Advanced Standing

* Corequisite(s): AVSC 481R

For upper division Aviation Science majors. Designed to enable students with career aspirations in aviation related fields to begin career planning. Enhances a student's knowledge, personal development, professional development and professional preparation by integrating academic study with practical experience and resume preparation. May be repeated for a maximum of 2 credits toward graduation.

AVSC 4900

Aviation Administration Capstone

3:3:0 Fall, Spring, Summer

* Prerequisite(s): AVSC 3350, AVSC 4020, and University Advanced Standing

Provides aviation administration students with the opportunity to practice and apply their cumulative knowledge acquired over the entire course of study. Teaches the components of formulating a strategic plan, implementing and controlling its execution, and evaluating its success. Applies principles of accounting, finance, economics, labor, logistics, operations, research and development and strategy through a simulation and aviation specific case studies.

AVSC 491R

Undergraduate Research Project

3 to 6:2:3 to 12 On Sufficient Demand

* Prerequisite(s): AVSC 3200, AVSC 3600, (ENGL 2010 or ENGL 2020), Matriculation into Bachelor's Degree, and University Advanced Standing

Combines and integrates concepts, methodologies, and skills developed in previous AVSC course work through the completion of a comprehensive project. Students will develop their own project and portfolio in consultation with a faculty advisor. A list of detailed guidelines for the project is available from the Aviation Science Department. May be repeated three times for a maximum of 6 credits.

Behavioral Science (BESC)

BESC 1000 Behavioral Science Forum 2:2:0 On Sufficient Demand

For students interested in exploring a Behavioral Science major. Offers an overview of curriculum, major requirements, faculty and their specialties, study and writing helps and guidelines, campus resources and career possibilities. Utilizes lectures, guest speakers, field trips, and application-oriented activities.

BESC 107G Multicultural Societies 3:3:0 SS Fall

Examines societies and cultures within the kinships, beliefs, values and political backgrounds related to differing ethnic groups. Provides a forum for constructive interaction among people of differing economic, social, racial, ethnic and religious backgrounds.

BESC 295R Beginning Research Experience 1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Instructor approval; BESC department major

Provides a mentored experience to assist on a faculty member's research project. Begin to explore academic literature to investigate topics of interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Includes literature searches, materials creation, data collection, or other options as approved by the instructor. May be repeated for a maximum of six credits toward graduation. May be graded Credit/No Credit.

BESC 3010 Statistics for the Behavioral Sciences 4:4:0 Fall, Spring, Summer

* Prerequisite(s): (MAT 1000 or higher) and (ANTH 101G, FAMS 101G, PSY 1010, SOC 1010, or SW 1010) and University Advanced Standing

Introduces use of statistics for research purposes. Teaches descriptive and inferential statistics. Includes central tendency, variability, correlation and regression, probability (particularly probability distributions), and various inferential techniques such as t-test for independent and dependent samples, one-way and two-way analysis of variance, post-hoc tests, and non-parametric statistics. May be delivered hybrid and/or online

BESC 3020 Research Methods for the Behavioral Sciences 3:3:0 Fall, Spring, Summer

* Prerequisite(s): BESC 3010 or declared major in Family Science and (admission into BSW program or declared major in Behavioral Science, Family Science, or Psychology) and (ANTH 101G, FAMS 101G, PSY 1010, SOC 1010, or SW 1010) and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher) and University Advanced Standing

Surveys the most common research designs in the social sciences. Includes true experiments, quasi-experiments, correlational designs, survey research, single case, and the philosophy of qualitative methods. Includes the design of a study, original data collection, data analysis, presentation of results. May be delivered hybrid and/or online.

BESC 3100 Career and Graduate School Preparation for Behavioral Science Majors 3:3:0 Fall, Spring

* Prerequisite(s): (ANTH 101G or FAMS 101G or PSY 1010 or SOC 1010 or SW 1010) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and (admission into BSW program or declared major in Behavioral Science, Family Science, or Psychology) and University Advanced Standing

Emphasizes the development of skills necessary to successfully apply for employment and/or graduate school. Includes resume writing, cover letters and basic interview skills, preparation of acceptable application packages, and learning how to network with school and community resources to find employment and/or graduate school opportunities.

BESC 3420 (Cross-listed with: COMM 3420) Communication and Conflict 3:3:0

* Prerequisite(s): (FAMS 3410 or COMM 3410 or COMM 2110 or LEGL 3150) and University Advanced Standing

Studies contemporary theories of conflict and communication. Analyzes the roles of culture, gender, personal, and organizational ethics in conflicts and disputes. Covers the nature of conflict and teaches methods of negotiation, mediation, and conflict resolution with an emphasis on collaborative problem-solving.

BESC 3550 Thanatology--Death and Dying 3:3:0 On Sufficient Demand

* Prerequisite(s): (PSY 1010 or SW 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Introduces students to the subject of thanatology. Reviews theories and research associated with death and dying. Examines death systems, cultural norms, taboos and rituals. Studies the health care system, public policy, laws, and customs. Addresses death from a developmental perspective. Explores life-threatening illness, suicide, and end-of-life issues. Reviews grief and loss themes. Familiarizes students with vocabulary and explores related human service occupations such as bereavement counseling and hospice care. May be delivered hybrid.

BESC 380G Interviewing Skills 3:3:0 Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with C+ or better) and University Advanced Standing; PSY 3400 with a C- grade or higher recommended

Develops knowledge of and skill in clinical interviewing across cultures. Familiarizes students with a broad range of clinical interviewing skills. Uses class discussions, video clips of master clinicians, instructor modeling, in-class practice, videotaped role plays, and class and instructor evaluations of role plays.

BESC 3820 Women, War and Peacebuilding 3:3:0 On Sufficient Demand

* Prerequisite(s): (PSY 1010 or SOC 1010 or ANTH 101G) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Examines the gendered foundations and dynamics of war (and ethno-political violence) and peace. Explores consequences to women and their roles in militarism and transformational justice and peacebuilding. Emphasizes an analysis of gender within the framework of the behavioral sciences.

BESC 4030 Introduction to Practice Evaluation and Grant Writing 3:3:0 On Sufficient Demand

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing

Provides practical guidance for conducting an evaluation study from its inception, through the planning stage, to research design, data collection, data analysis and the reporting, dissemination, and application of conclusions.

BESC 4040 Applied Behavioral Science Research 3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade), BESC 3010, BESC 3020, and University Advanced Standing

Introduces psychological theory, methods, and knowledge to actively analyze and engage problems facing a variety of clients. Discusses a variety of organizations including businesses, government, religion, social science, health care, criminal justice, and others. Utilizes psychological tools to identify, investigate, and actively seek viable solutions to issues that can be applied by organizations to achieve greater success. Requires students to develop, carry out, and professionally present an original research project. May be delivered hybrid. Lab access fee of \$13 applies.

BESC 4050 Clinical Research 3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing

Introduces students to the field of clinical research. Integrates traditional psychological research methods and the area of clinical practice. Uses the scientist-practitioner model to demonstrate common research methodologies and examine clinical outcomes. Applies quantitative and qualitative methods in a clinical setting. Focuses on determining the effectiveness of therapeutic process and outcome using research.

BESC 4510**Academic and Career Advising****3:3:0**

* Prerequisite(s): (ENGL 2010 or 2020 with a C+ or higher) and University Advanced Standing

Provides students with an understanding of the field of academic/career advising and what it means to be a scholar and practitioner within the field. Engages in scholarly study of academic advising literature, discussion of advising theory and practice, observation of academic advising sessions, and interviews with advisors. Provides knowledge of advising theory and practice, an understanding of student development theory, and an increase in the knowledge and skills needed to advise students effectively.

BESC 481R**Senior Internship****1 to 8:0:5 to 40****Fall, Spring**

* Prerequisite(s): BESC 3010, BESC 3020 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher

* Corequisite(s): BESC 485R

Allows Behavioral Science students with non-clinical orientation to receive behavioral science credits for interning in a governmental, corporate, or private agency apart from their regular employment. Provides practical and research experience over the course of the 15 week semester. Supervised by agency representative. Internships approved by faculty and written contracts must be signed. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

BESC 485R**Internship Seminar****1:1:0****On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing

* Corequisite(s): BESC 481R

Provides integration of classroom learning with learning that takes place in an on-site internship. To be taken concurrently with BESC 481R, Senior Internship. Repeatable for a maximum of 8 credits toward graduation.

BESC 495R**Advanced Research Experience****1 to 3:1 to 3:0****On Sufficient Demand**

* Prerequisite(s): (ANTH 101G or FAMS 1010 or PSY 1010 or SOC 1010 or SW 1010) with a C grade or higher; ENGL 2010 or ENGL 2020 with C+ grade or higher; Instructor approval; BESC department major; University Advanced Standing

Provides a mentored experience to significantly assist on a faculty member's research project or carry out an independent research project of the student's design under faculty mentorship. Requires individual initiative and responsibility. Includes limited formal instruction. Includes literature searches, completion of the IRB application process, materials creation, data collection, data analysis, writing a publishable paper, preparing a poster, preparing an oral presentation, or other options as approved by the instructor. May be repeated for a maximum of nine credits toward graduation. May be graded credit/no credit.

Biology (BIOL)**BIOL 1010****BB****General Biology****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL1010 (or higher) with a minimum grade of C-

Introduces major themes and concepts of biology including cell and molecular biology, genetics, diversity, evolution, and ecology. Provides students with necessary information and skills to critically evaluate what they hear, read, and see in the living world; communicate clearly; and apply methods to interpret data for making informed decisions concerning the role of biology in a world of which they are a part. May be delivered online.

BIOL 1015**General Biology Laboratory****1:0:2****Fall, Spring, Summer**

* Prerequisite(s) or Corequisite(s): BIOL 1010

A general laboratory experience covering introductory topics in general biology. Designed to complement the student's experience in the General Biology 1010 course with emphasis on the application of the scientific method. Includes actual student experiences with living organisms, use of the microscope, field excursions and an introduction to techniques used in the study of life. Course lab fee of \$13 for supplies applies.

BIOL 101H**BB****General Biology****3:3:0****On Sufficient Demand**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL1010 (or higher) with a minimum grade of C-

* Corequisite(s): BIOL 1015

Encourages students to understand and link concepts related to metabolism, photosynthesis, evolution, ecology, patterns of inheritance and genetics, human disease, physiology and organ systems, biological diversity, and environmental issues. Writing is emphasized in the course, including a term paper on a relevant and timely biological topic, as well as essay examinations.

BIOL 1070**BB****Heredity****3:3:0****On Sufficient Demand**

* Prerequisite(s): BIOL 1010 is strongly recommended

Introduces genetics for non-majors. Addresses patterns of inheritance from generation to generation (with an emphasis on human heredity), DNA structure and function as well as other aspects of molecular genetics and reproductive technologies.

BIOL 1200 (Cross-listed with: GEO 1020)**BB****Prehistoric Life****3:3:0****Spring**

* Prerequisite(s): BIOL 1010 or GEO 1010 recommended

Studies prehistoric life. Uses the concepts of biology and physical science. Studies major groups of ancient animals and plants as found in the rock record. Includes aspects and fundamental concepts of biology, ecology, and geology.

BIOL 1500 (Cross-listed with: ANTH 1020)**BB****Biological Anthropology****3:3:0****Fall**

* Prerequisite(s): ENGL 1010 and (ANTH 101G or BIOL 1010)

For students with special interests in Anthropology or the Life Sciences. Studies fossils and living primates, primate biology and behavior. Surveys humanoid fossils. Investigates human evolution and variations of basic biology as it pertains to human development. Stresses the importance of the distribution and diversity of humankind.

BIOL 1610**BB****College Biology I****4:4:0****Fall, Spring, Summer**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL1010 (or higher) with a minimum grade of C-

Gives a broad exposure to many aspects of the life sciences. Covers topics of biochemistry, energetics, cell structure and function, genetics, and evolution. BIOL 1615 must be taken concurrently by Biology Department majors. BIOL 1615 is not required for pre-allied health majors.

BIOL 1615**College Biology I Laboratory****1:0:3****Fall, Spring, Summer**

* Corequisite(s): BIOL 1610

Laboratory course to accompany BIOL 1610. Topics covered include scientific method, biomolecules, cell structure and function, cellular reproduction, Mendelian and molecular genetics, DNA technology, and evolution. Course Lab fee of \$30 applies.

BIOL 1620**BB****College Biology II****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): BIOL 1610 and BIOL 1615 with a C- or higher in each.

* Corequisite(s): BIOL 1625

Provides the second semester material in the two semester introductory course designed for biology majors. Covers origin and early evolution of life, plant structure and function, plant diversity, animal structure and function, animal diversity, and animal behavior.

BIOL 1625**College Biology II Laboratory****1:0:2****Fall, Spring, Summer**

* Corequisite(s): BIOL 1620

Laboratory course to accompany BIOL 1620. Topics covered include animal biology and diversity and plant biology and diversity. Course Lab fee of \$24 for lab, transportation applies.

BIOL 202R (Cross-listed with: GEO 202R)**Science Excursion****1:0:2****Fall, Spring, Summer**

For students interested in the natural world. Explores a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of a minimum of a four-day field trip. Participants should gain an increased understanding of several fields of scientific study. May be repeated as many times as desired for interest, however a maximum of 3 credits may count toward graduation.

Course Descriptions

BIOL 204R (Cross-listed with: GEO 204R) BB **Natural History Excursion**

3:1:6 On Sufficient Demand

For students interested in the natural world. Promotes an in-depth look at a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of 15 hours of lecture plus an appropriate field trip. Participants should gain an interdisciplinary understanding of science and nature. May be repeated for up to six credits toward graduation.

BIOL 2070 **Natural History of the Colorado Plateau**

3:1:4 On Sufficient Demand

* Corequisite(s): GEO 2070

Addresses the biological component of the Natural History Course taught in conjunction with GEO 2070 at the Capitol Reef Field Station during the summer months. Requires students to sign up for BIOL 2070 and GEO 2070 in order to participate. Teaches students about the ecology of this unique ecosystem, the plants and animals that occupy the landscapes and the interactions of the organisms with man and the environment. Provides an intense, hands on field course where faculty and students participate together in a natural setting. Requires students to live and learn at the field station for most of the course.

BIOL 2500 BB **Environmental Biology**

3:3:0 On Sufficient Demand

* Prerequisite(s): BIOL 1010 or BIOL 1610 is recommended

Designed to acquaint students with the principles of ecology emphasizing population dynamics, energetics, structural components, and concepts of niche and succession. Discusses the interactions of ecological principles and humanity's technology relative to the world today and factors that influence the quality of life.

BIOL 290R **Special Topics In Biology**

1 to 4:0 to 4:0 to 12 On Sufficient Demand

* Prerequisite(s): BIOL 1010 or higher or Instructor Approval

Explores and examines special topics relating to the field of Biology. Emphasizes areas of rapid growth in Biology or current importance to society. May be repeated for a total of six credits toward graduation.

BIOL 295R **Independent Studies in Life Sciences**

1 to 4:0:3 to 12 Fall, Spring, Summer

* Prerequisite(s): At least 3 credit hours of college level biology, approval of a faculty mentor, and approval of the department chair

Provides individual studies in biology under the direction of a faculty mentor. May include literature reviews, original research, and participation in ongoing departmental projects. Introduces students to the methodology of life science research. Students will prepare oral and written reports of their projects. May be repeated for up to 4 credits toward graduation.

BIOL 3300 **Developmental Biology**

3:3:0 Fall

* Prerequisite(s): BIOL 1610 with a minimum grade of C- and University Advanced Standing

Examines the principles of Developmental Biology with emphasis on the specialization of cells and their organization into body plans. Recommended for Biology Majors interested in developmental processes. May be delivered online.

BIOL 3400 **Cell Biology**

3:3:0 Fall, Spring

* Prerequisite(s): BIOL 1610 and CHEM 1220 with a C- or higher in each and University Advanced Standing

For Biology majors or those desiring more knowledge of this subject. Studies the cell as an organism emphasizing molecular basis of cell structure and functions.

BIOL 3405 **Cell Biology Laboratory**

1:0:3 On Sufficient Demand

* Prerequisite(s): BIOL 1610 and CHEM 1220 or higher with minimum grade of C- in each and University Advanced Standing

* Corequisite(s): BIOL 3400

Uses laboratory exercises to demonstrate topics covered in BIOL 3400. Includes experimental methods for studying cell processes, enzymes, tissue specific proteins, organelles, and experimental design. Course Lab fee of \$100 applies.

BIOL 3500 **Genetics**

3:3:0 Fall, Spring, Summer

* Prerequisite(s): BIOL 1610 with minimum grade of C- and University Advanced Standing

For Biology majors. Studies the genetic basis of life and the mechanisms by which information to make life is stored in the DNA. Presents classical, molecular, and population genetics in the background of current techniques and understanding of genetic processes. Provides an understanding of the basic principles of genetics and preparation for more advanced courses in other aspects of biology.

BIOL 3515 **Advanced Genetics Laboratory**

1:0:4 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): BIOL 3500

Examines advanced aspects of classical and molecular genetic transmission and analysis. Provides hands-on experience with the methods of classical and molecular genetics. Course Lab fee of \$60 applies.

BIOL 3550 **Molecular Biology**

3:3:0 Fall, Spring

* Prerequisite(s): BIOL 1610, CHEM 1215, and University Advanced Standing

Examines structure, organization, replication, and expression of the genome, and methods for study of genome structure and function.

BIOL 3555 **Experiments in Molecular Biology**

1:0:3 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): BIOL 3550

Performs experiments in molecular biology including cDNA synthesis, gene cloning, DNA sequencing, polymerase chain reaction (PCR), computer analysis of nucleic acid and protein sequences, protein expression-screening and protein separation and characterization. Course Lab fee of \$150 applies.

BIOL 3600 (Cross-listed with: CHEM 3600) **Biological Chemistry**

3:3:0 Fall, Spring

* Prerequisite(s): CHEM 2320 and University Advanced Standing

Introduces principles of the chemical processes that define living organisms. Covers structure and function of proteins, carbohydrates, lipids, and nucleic acids. Explores metabolic pathways, biosynthesis, enzymatics, thermodynamics, membrane dynamics and related processes within a living cell. Emphasizes molecular mechanisms of reactions and their outcomes.

BIOL 3605 (Cross-listed with: CHEM 3605) **Biochemistry Laboratory**

1:0:4 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

* Corequisite(s): BIOL 3600

Introduces laboratory techniques in biochemistry. Studies methods and theory behind purification of proteins and nucleic acids including chromatography and electrophoresis. Uses methods in assessing enzyme activity and kinetics and protein structure analysis. Includes analysis and manipulation of DNA and RNA. Course Lab fee of \$151 applies.

BIOL 3700 **General Ecology**

3:3:0 Fall, Spring

* Prerequisite(s): BIOL 1620 (or equivalent with instructor consent) with a C- or higher, and University Advanced Standing

Introduces the relationships between organisms and their environment, including population, community and ecosystem processes. Specific topics include adaptation to abiotic factors and the influence of these factors on distribution and abundance; survivorship, age structure, and growth of populations; life history patterns, species interactions, community structure and diversity, biome structure and distribution, and energy flow and nutrient cycles in ecosystems. Also presents the impact of humans on ecological processes.

BIOL 3705 **General Ecology Laboratory**

1:0:2 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

* Corequisite(s): BIOL 3700

Laboratory component to General Ecology in which students may acquire skills in the collection, analysis, and presentation of ecological data. Activities include field sampling of plant and animal populations, laboratory experiments and observations, and computer simulations. Emphasizes techniques in data storage and statistical analysis, graphical representation of data, and scientific writing. Course Lab fee of \$18 for lab, transportation applies.

BIOL 3800
Conservation Biology
3:3:0 **Spring**
 * Prerequisite(s): (BIOL 1010 or BIOL 1620 with a minimum of C-) and University Advanced Standing; BIOL 3700 strongly recommended

Presents scientific principles of conservation biology and associated cultural and ethical issues. Explores the diversity of life on this planet and how that diversity is organized and distributed. Investigates the challenges facing management of our natural resources in order to maintain healthy and productive populations and ecosystems. Course fee of \$13 for materials, transportation applies

BIOL 4000
Freshwater Ecology
4:3:2 **On Sufficient Demand**
 * Prerequisite(s): BIOL 1620 and (BIOL 2500 or BIOL 3700) with a C- or higher in each, and University Advanced Standing

Explores physical, chemical, and biological characteristics of freshwater systems, including lakes, rivers, and streams. Emphasizes freshwater habitats as ecosystems. Studies human impacts on freshwater, with particular reference to Utah and the West. Emphasizes field experience in collecting and measuring the physiochemical characteristics and different groups of organisms found in freshwater habitats. Includes weekly laboratory. Course Lab fee of \$17 for lab, transportation applies.

BIOL 4200 (Cross-listed with: CHEM 4200, GEO 4200, PHYS 4200)
Teaching Methods in Science
3:2:2 **Fall, Spring**
 * Prerequisite(s): Acceptance into secondary education program, senior-level standing, instructor approval, and University Advanced Standing

Examines objectives, instructional methods and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences, appropriate both to the special needs of the learners and the special characteristics of science discipline.

BIOL 4260
Ethical Issues in Biology
2:1:2 **On Sufficient Demand**
 * Prerequisite(s): (BIOL 1610, BIOL 1620, and PHIL 2050 with a C- or higher in each) and University Advanced Standing

Offer an in-depth analysis of current ethical issues in biology. Requires extensive reading and an analytical term paper. Presents subjects in lecture, and in lab sessions, concentrates on readings and on analyses of issues and their effects on people. Explores and discusses individual participant paradigms.

BIOL 4300
Bioinformatics and Genome Analysis
4:3:2 **On Sufficient Demand**
 * Prerequisite(s): BIOL 3500 with a minimum grade C- and University Advanced Standing

Studies analysis of genomic sequences, comparison of genomes of different species to gather information about protein function. Includes hands on learning in bioinformatics and genomics. Uses a combination of computer work and discussions that will allow the student to perform basic gene and protein analysis using web tools.

BIOL 4450
Immunology
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (MICR 2060 or MICR 3450 or ZOOL 2420) and University Advanced Standing
 * Corequisite(s): BIOL 4455

Explores the macromolecules, cells and organs involved in innate and adaptive immunity. Examines the development of lymphocyte repertoire, positive and negative selection of lymphocytes and the production of effector lymphocytes. Studies properties of antigens, vaccines, antigen presenting cells and the mechanisms of antigen presentation. Reviews major immunological methods for medical diagnostics and other applications. Examines causes and consequences of autoimmune and lymphoproliferative diseases and immunodeficiencies. Probes how immune response could be manipulated for cancer therapy and transplantation medicine.

BIOL 4455
Immunology Laboratory
1:0:2 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing
 * Corequisite(s): BIOL 4450

Addresses federal, local and institutional regulations on using vertebrate animals for biomedical research. Teaches and regularly practices aseptic techniques required in handling biohazardous materials including vertebrate tissues. Studies how to collect tissues and blood from vertebrate animals and process the samples for harvesting various types of cells and macromolecules. Presents common immunological techniques such as western blot analysis and ELISA. Covers how to immunize animals using appropriate adjuvant and harvest plasma from immunized animals to isolate immunoglobulin. Examines tissue typing methodologies including PCR techniques. Course Lab fee of \$150 applies.

BIOL 4500
Principles of Evolution
3:3:0 **Fall, Spring**
 * Prerequisite(s): BIOL 1620 and BIOL 3500 with a C- or higher in each, senior status, and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): BIOL 3700

Focuses on the concepts of evolution as a fundamental principle of biology. Emphasizes the mechanisms and explanations of the tremendous diversity of life. Studies classical, molecular and current explanations of evolution in the background of current techniques and understanding of the genetic processes. Successful completers of this course will possess an understanding of the principles of evolution and be able to explain the various aspects of natural selection and speciation.

BIOL 4550
Molecular Evolution and Bioinformatics
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): BIOL 3500 with minimum grade of C-, and minimum of 6 additional credits upper division biology (BIOL, BOT, MICR, ZOOL, BTEC) courses, and University Advanced Standing

Focuses on the concepts of evolution as a fundamental principle of biology with emphasis on change at the molecular level. Teaches how natural selection shapes the evolution of genes, gene systems, macromolecules, and organisms. Explores the roles of mutation, natural selection, population size and subdivision, and genetic recombination. Introduces different approaches for testing hypotheses about how molecules evolve by using phylogenetic analysis.

BIOL 481R
Biology Internship
1 to 5:0:5 to 25 **Fall, Spring, Summer**
 * Prerequisite(s): BIOL 1620 with a C- or higher and Instructor Approval

Allows biology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated with a maximum of 5 credits counting toward graduation. May be graded credit/no credit.

BIOL 489R
Student Research
1 to 4:0:3 to 12 **Fall, Spring, Summer**
 * Prerequisite(s): BIOL 1620, CHEM 1210, Junior or Senior Standing, instructor permission, and University Advanced Standing

Provides guided research studies in biology under the direction of a Biology Department faculty mentor. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original biology research. Requires preparation and presentation of oral and/or written reports. Results may form the basis of the senior thesis in the major, if thesis option is chosen. May be repeated for 4 credits toward graduation.

BIOL 490R
Special Topics in Biology
1 to 4:0 to 4:0 to 8 **On Sufficient Demand**
 * Prerequisite(s): BIOL 1620 and University Advanced Standing

Explores and examines special topics relating to the field of biology. Emphasizes areas of rapid growth in biology or current importance to society. May be repeated for a total of 9 credits toward graduation.

BIOL 494R
Student Seminar
1:1:0 **Fall, Spring**
 * Prerequisite(s): BIOL 1620 with a C- or higher, junior or senior standing, and University Advanced Standing

Requires students to research scientific literature, give oral presentations, and lead discussions on assigned biology topics in specific areas of current research in biology. May be repeated for up to two credits toward graduation.

Course Descriptions

BIOL 497R

Biology Colloquium

.5:5:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Requires students to attend lectures presented every other week by department faculty and/or invited speakers. Feature lectures that are usually a summary of the speaker's recent research results, presented at a level appropriate for junior and senior biological science majors. May be repeated for a maximum of 2 credits toward graduation.

BIOL 499R

Senior Thesis

1 to 2:0:3 to 6 Fall, Spring, Summer

* Prerequisite(s): ENGL 2010 or ENGL 2020, junior standing, instructor permission, and University Advanced Standing

For students who are nearing completion of a baccalaureate degree in Biology with the thesis option. Assists students who are writing a thesis based only on library research, or those who have performed laboratory/field research under BIOL 489R. Provides experience in critically analyzing published literature and, if laboratory/field research was performed, comparing research results with the scientific literature. Supervised by an appointed faculty member of the Department of Biology. Requires a technically accurate report on one's findings. Includes the opportunity to present the research results to students, faculty and the community at a Department of Biology seminar. May be repeated once for a total of 2 credits toward graduation.

BIOL 5000

Regulatory Affairs for Life Sciences

4:4:0

* Prerequisite(s): Acceptance into the Certificate of Proficiency in Regulatory Affairs for Life Sciences or Instructor Approval

Introduces regulatory affairs as practiced by medical device and biopharma companies in the US. Focuses on United States Federal Drug Administration and International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use guidances and best practices.

BIOL 5010

Quality Management Systems for the Life Sciences

2:2:0

* Prerequisite(s): BIOL 5000

Introduces FDA and International Conference on Harmonisation (ICH) requirements for the QSR (Quality System Regulation). Focuses on ISO 13485 and related guidances. Specifically covers the regulations and standards which are the basis of the regulated life science industry.

BIOL 5020

Design Control and Risk Management for the Life Sciences

3:3:0

* Prerequisite(s): BIOL 5000

Introduces design control and risk management requirements for medical device and BioPharma companies.

BIOL 525R

Advanced Topics for Biology Teachers

1 to 5:1 to 5:0 to 10 On Sufficient Demand

* Prerequisite(s): Departmental Approval

For licensed teachers or teachers seeking to re-certify their biology endorsement from the Utah State Office of Education. Teaches principles of biology and pedagogy of teaching biology for teachers in public or private schools. Emphasizes correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

BIOL 579R

Special Topics

2:2:0

Spring

Focuses on issues that are current and often changing in regulatory affairs, such as international regulations. Engages students in discussion and lectures with industry experts on cutting-edge issues that impact how medical devices and pharmaceuticals are regulated for compliance and safety. May be repeated for a maximum of 8 credits toward graduation. May be delivered online.

BIOL 580R

Capstone Project

1:1:0

* Prerequisite(s): BIOL 5020

Applies knowledge learned in the Regulatory Affairs sequence of courses to the real world. Allows students to work with faculty members and industry experts to design and complete a project that incorporates various concepts that have been presented in previous Regulatory Affairs courses. May be repeated for a maximum of 3 credits toward graduation.

BIOL 581R

Biology Internship

1 to 5:0:5 to 25

* Prerequisite(s): Instructor Approval and Internship Orientation

Allows students to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated with a maximum of 5 credits counting toward graduation. May be graded credit/no credit.

BIOL 6000

Regulatory Affairs for Life Sciences

4:4:0

Fall

* Prerequisite(s): Acceptance into the Graduate Certificate in Regulatory Affairs for Life Sciences or Instructor Approval

Introduces regulatory affairs as practiced by medical device and biopharma companies in the US. Focuses on United States Federal Drug Administration and International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use guidances and best practices.

BIOL 6010

Quality Management Systems for the Life Sciences

2:2:0

Spring

* Prerequisite(s): BIOL 6000

Introduces FDA and International Conference on Harmonisation (ICH) requirements for the QSR (Quality System Regulation). Focuses on ISO 13485 and related guidances. Specifically covers the regulations and standards which are the basis of the regulated life science industry.

BIOL 6020

Design Control and Risk Management for the Life Sciences

3:3:0

Spring

* Prerequisite(s): BIOL 6000

Introduces design control and risk management requirements for medical device and BioPharma companies.

BIOL 680R

Capstone Project

1:1:0

Spring

* Prerequisite(s): BIOL 6020

Applies knowledge learned in the Regulatory Affairs sequence of courses to the real world. Allows students to work with faculty members and industry experts to design and complete a project that incorporates various concepts that have been presented in previous Regulatory Affairs courses. May be repeated for a maximum of 3 credits toward graduation.

BIOL 681R

Biology Internship

1 to 5:0:5 to 25

Spring

* Prerequisite(s): Instructor Approval

Allows students to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated with a maximum of 5 credits counting toward graduation. May be graded credit/no credit.

Building Inspection Technology (BIT)

BIT 1010

Building Codes

3:3:0

Fall, Spring

Teaches the nonstructural standards of the Uniform Building Code. Includes occupancy classifications, building area, height and location limits, exit requirements, and fire-resistive standards.

BIT 1020

Residential Codes

3:3:0

Fall, Spring

Teaches the nonstructural standards of the International Residential Code. Includes foundations, walls, floors, roofs, finishes, heating, cooling, plumbing and electrical codes as they apply to residential construction.

BIT 1170

Field Lab Building Codes

1:0:3 **Fall, Spring**

For students, building inspectors, architects, and builders. Provides practical on-the-job experience in inspecting footings, foundation walls, reinforcement steel, the building structure, and interior and exterior coverings.

BIT 1230

Plan Review

3:3:0 **Spring**

* Prerequisite(s): BIT 1010 or instructor's approval.

Designed to introduce students to the techniques of nonstructural plans examination through familiarization of the plan and construction documents, specifications, and the application of code requirements.

BIT 1240

Plumbing Codes

3:3:0 **Spring**

A comprehensive study of plumbing code requirements relating to the principles of plumbing design, materials, installation standards, water and gas distribution systems, storm and sanitary sewer systems, water heaters, and mobile home connections.

BIT 1330

Mechanical Codes

3:3:0 **Fall**

This is a comprehensive course which covers the entire Uniform Mechanical Code. Students will gain a working knowledge of requirements for mechanical systems, including heating, cooling, ducts, ventilation, refrigeration, kitchen hood and ducts, fuel-gas piping, appliance venting, combustion air, and related requirements.

BIT 1340

Electrical Codes

3:3:0 **Fall, Spring**

Studies the National Electrical Code in its entirety. Covers electrical wiring systems, methods, electrical equipment, special occupancies, special equipment, special conditions, and communication systems.

BIT 1380

Ride Along Lab

1:0:3 **Fall, Spring, Summer**

For students, building inspectors, architects, and builders. Students will accompany a building inspector as he or she conducts on-the-job inspections. There will be a rotation system established to give students experience in a variety of jurisdictions. This class is for fourth-semester students only.

BIT 281R

Cooperative Work Experience

1 to 8:0:5 to 40 **On Sufficient Demand**

* Corequisite(s): BIT 285R the first time only

For Building Inspection Technology majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. Up to 16 credits total between BIT 281R and BIT 285R may be taken toward graduation. May be graded credit/no credit.

BIT 285R

Cooperative Correlated Class

1:1:0 **On Sufficient Demand**

* Corequisite(s): BIT 281R the first time only

For Building Inspection Technology Majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. Take up to 16 credits total between BIT 281R and BIT 285R.

Business/Marketing Education (BMED)

BMED 4200

Methods of Teaching Business/Marketing/Digital Technology

3:3:0 **Spring**

* Prerequisite(s): (IM 2600 or IM 3700 or Instructor Approval), EDSC 3000, and University Advanced Standing

Provides foundation knowledge of business education. Includes methods of teaching business, marketing, digital media, emerging technologies, and keyboarding. Includes philosophical foundations of business education, curriculum trends impacting business and technology classrooms, classroom management, curriculum planning, and assessment. Includes curriculum standards, competency-based instruction, career and technical education, and professionalism. Requires field observation. May be delivered hybrid. Lab access fee of \$35 applies.

BMED 4250

Methods of Teaching Business and Marketing

3:3:0 **On Sufficient Demand**

* Prerequisite(s): EDSC 3000, LEGL 3000, MKTG 2200, ECON 2020, MKTG 3600, or instructor approval, and University Advanced Standing

Provides an opportunity for prospective teachers to become facilitators of learning specifically by planning, developing, delivering, and evaluating basic business and marketing curriculum. Provides the background and foundation of business/marketing teacher education for students seeking a secondary education degree. Includes textbook selection, student organizations, professional associations, and advisory committees. Addresses issues and trends in business and marketing education. May be delivered hybrid. Lab access fee of \$35 for transportation applies.

BMED 4300

Methods of Teaching Computer Science

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (INFO 1120 or CS 1030) and (INFO 1200 or CS 1500) or Instructor Approval; and University Advanced Standing

Methodology course designed for secondary education students and current educators to gain the pedagogical knowledge and learn best practices necessary for teaching secondary computer science (CS) concepts. Combines pedagogical principles with computer science knowledge to create an effective learning environment. Includes reading, discussing, reflection, evaluation, micro-teaching, and field observations. Addresses the standards set by the International Society for Technology in Education (ISTE) for students and for teachers, and utilizes in the design, implementation, and assessment of learning materials.

BMED 4900

Business Marketing Student Teaching Seminar

2:2:0 **On Sufficient Demand**

* Prerequisite(s): BMED 4200, BMED 4250, Admission to Professional Education Program, and University Advanced Standing

* Corequisite(s): EDSC 4850

Discusses the student teaching environment as experienced by the students as they perform teaching responsibilities. Allows the student to draw on the experiences of other students in the class, resource people, and the seminar leader. Offered credit/no-credit.

Botany (BOT)

BOT 2050 **BB**

Field Botany

3:2:3 **Fall**

* Prerequisite(s): BIOL 1010 or BOT 2400 recommended

For biology majors and non-majors. Covers the classification, identification, and ecology of woody plants with an emphasis on native trees and shrubs. Includes field trips and laboratory work. Student plant collection required. Course Lab fee of \$30 for transportation applies.

BOT 2100 **BB**

Flora of Utah

3:2:3 **Summer**

* Prerequisite(s): None, BIOL 1010 is recommended

A vascular plant taxonomy course for intended botany and biology majors or anyone interested in learning about plants native to Utah. Covers the principles of plant classification, nomenclature, and identification with an emphasis on Utah flowering plants. Includes field trips and weekly laboratory. Student plant collection required. Course Lab fee of \$30 for transportation applies.

BOT 2400 **BB**

Plant Kingdom

4:3:2 **Spring**

* Prerequisite(s): BIOL 1010 or BIOL 1610 with a minimum grade of C-

Surveys of the Divisions (Phyla) traditionally studied by botanists, emphasizing structure, reproduction, systematics, and evolution. Completers should be familiar with the morphological features of the major prokaryotic, fungal, algal, and plant groups. Includes a weekly laboratory. Course Lab fee of \$50 for supplies applies.

Course Descriptions

BOT 3340 **Plant Biology**

4:3:2 **Fall**
* Prerequisite(s): BIOL 1620 and (CHEM 1120 or CHEM 1220 or higher) with a minimum grade of C- in each, and University Advanced Standing

Designed for Biology Education majors and others wishing a one semester upper division combined plant anatomy/plant physiology course. Covers structure-function interrelationships from the cellular to whole plant level, including aspects of plant anatomy, physiology, reproduction, growth and development with emphasis on the angiosperms (flowering plants). Includes weekly laboratory. Students may not receive credit for both BOT 3340 and BOT 4100 and/or BOT 4600. Course Lab fee of \$30 for supplies applies.

BOT 3800 **Ethnobotany**

4:3:2
* Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing

Analyzes and evaluates interactions between people and plants. Discusses how plants are used in medicine, industry, food, and culture. Covers basic concepts, including literature and field research techniques, phytochemical analysis, and ethical issues such as bioprospecting and conservation. Includes class discussions, student-led activities, oral presentations, and a final project.

BOT 4050 **Plant Ecology**

3:3:0 **Fall**
* Prerequisite(s): BIOL 1620 with a C- or higher, and University Advanced Standing
* Corequisite(s): BOT 4055

Studies the interrelationships between plants and their environment, including population, community, and ecosystem processes. Specific topics include adaptation to abiotic factors, plant life history patterns, species interactions such as competition and herbivory; community structure, diversity, and dynamics; biome structure and distribution, and energy flow and nutrient cycles in ecosystems. Presents the impact of humans on plant communities and ecological processes.

BOT 4055 **Plant Ecology Laboratory**

1:0:2 **Fall**
* Prerequisite(s): University Advanced Standing
* Corequisite(s): BOT 4050

Laboratory component of Plant Ecology in which students acquire skills in the collection, analysis, and presentation of ecological data. Includes field sampling of plant populations, laboratory and greenhouse experiments, and scientific writing. Field trips, including one weekend field trip, are required. Course Lab fee of \$87 for lab, transportation applies.

BOT 4100 **Plant Anatomy**

4:3:2 **On Sufficient Demand**
* Prerequisite(s): BIOL 1620 and BIOL 1625 with a minimum grade of C- in each, and University Advanced Standing

Covers the structure and development of cells, tissues and tissue systems in stems, roots, leaves, and reproductive structures in vascular plants, with emphasis on the angiosperms. Discusses primary and secondary plant body, including wood anatomy. Includes weekly laboratory. Students cannot receive credit toward graduation for both BOT 3340 and BOT 4100. Course Lab fee of \$25 for supplies applies.

BOT 4200 **Plant Systematics**

3:2:2 **Spring**
* Prerequisite(s): (BOT 2050 or BOT 2100), (BIOL 1010 or BIOL 1620), and University Advanced Standing

Covers the principles of plant classification and the techniques employed in gathering and analyzing taxonomic data. Focuses on the essentials of phylogenetic analysis in plants and on the evolutionary relationships between the major groups of vascular plants. Includes a weekly laboratory.

BOT 4300 **Native Trees and Shrubs of Utah**

3:2:2 **Fall**
* Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing; BOT 2400 suggested

Explores the diversity of woody plants of Utah, the plant communities they inhabit, and the ecological roles they play. Requires field trips; may include overnight trips as well as scheduled labs. Course Lab fee of \$70 for transportation applies.

BOT 4430 **Plant Pathology**

3:2:3
* Prerequisite(s): BIOL 1610 with a minimum grade of C- and University Advanced Standing

Teaches the fundamental concepts of plant pathology. Describes plant disease symptoms and organisms that cause those diseases and methods of control and diagnosis of diseases. Includes required laboratory. Course fee of \$20 applies.

BOT 4500 **Introduction to Grasses**

3:2:2 **Fall, Summer**
* Prerequisite(s): BIOL 1620 and (BOT 2100 or BOT 4300) with minimum grade of C- in each, and University Advanced Standing

Discusses grasses and their relatives, grass anatomy, taxonomy, and ecology. Emphasizes identification techniques. Includes heavy lab component and required field trips. Requires student plant collection.

BOT 4600 **Plant Physiology**

3:3:0 **Spring**
* Prerequisite(s): BIOL 1620 and CHEM 1220 both with a minimum grade of C-, and University Advanced Standing
* Corequisite(s): BOT 4605

Covers the physiological processes occurring in plants. Includes experimental techniques used in the investigation of processes such as photosynthesis, water and solute transport, tissue culture, growth regulation and responses and plant hormones. Involves problem solving and critical thinking skills. Students can not receive credit for both BOT 4600 and BOT 3340.

BOT 4605 **Plant Physiology Laboratory**

1:0:3 **Spring**
* Prerequisite(s): BIOL 1610, BIOL 1615, and University Advanced Standing
* Corequisite(s): BOT 4600

Focuses on laboratory aspects of topics in BOT 4600. Covers experimental methods for studying plant physiological processes such as respiration, photosynthesis, mineral nutrition, transpiration and tissue-water relations. Course Lab fee of \$35 applies.

BOT 4700 **Plant Tissue Culture**

4:2:4 **Spring**
* Prerequisite(s): BIOL 1620 with a minimum grade of C- and University Advanced Standing

Teaches principles of plant micro propagation techniques. Prepares the student to design and carry out their own micro propagation systems for the cultivation of a particular plant species. Course Lab fee of \$60 applies.

BOT 4800 **Plant-Herbivore Interactions**

3:3:0 **On Sufficient Demand**
* Prerequisite(s): BIOL 1620 with a C- or higher, and University Advanced Standing

Studies the diversity of interactions between plants and herbivores, and how these interactions can affect population, community, and ecosystem-level dynamics. Topics include plant defenses, tritrophic interactions, plant succession, and co-evolution. Implications of plant - herbivore interactions to natural resource management are considered.

BOT 481R **Botany Internship**

1 to 5:0:5 to 25 **On Sufficient Demand**
* Prerequisite(s): BIOL 1620 with a C- or higher, Instructor Approval, and University Advanced Standing

Allows biology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated for a maximum of 5 credits toward graduation. May be graded credit/no credit.

BOT 489R**Student Research****1 to 4:0:3 to 12 On Sufficient Demand**

* Prerequisite(s): BIOL 1620, CHEM 1210, Junior or Senior Standing, Instructor Approval, and University Advanced Standing

Provides guided research studies in botany under the direction of a Biology Department faculty mentor. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original botanical research. Requires preparation and presentation of oral and/or written reports. Results may form the basis of the senior thesis in the major, if thesis option is chosen. May be repeated for 4 credits toward graduation.

BOT 490R**Special Topics in Botany****1 to 4:0 to 4:0 to 12 On Sufficient Demand**

* Prerequisite(s): BIOL 1620 with a C- or higher, and University Advanced Standing

Explores and examines special topics relating to botany. May emphasize areas of rapid growth in botanical science or areas not covered in other courses. May be repeated for a total of 8 credits toward graduation.

BOT 499R**Senior Thesis****1 to 2:1 to 2:0 On Sufficient Demand**

* Prerequisite(s): ENGL 2010 or ENGL 2020, Junior standing, Instructor Approval, and University Advanced Standing

For students who are nearing completion of a baccalaureate degree in Botany with the thesis option. Assists students who are writing a thesis based only on library research, or those who have performed laboratory/field research under BIOL 489R or BOT 489R. Provides experience in critically analyzing published literature and, if laboratory/field research was performed, comparing research results with the scientific literature. Supervised by an appointed faculty member of the Department of Biology. Requires a technically accurate report on one's findings. Includes the opportunity to present the research results to students, faculty and the community at a Department of Biology seminar. May be repeated once for a total of 2 credits toward graduation.

Biotechnology (BTEC)

BTEC 1010**BB****Fundamentals of Biotechnology I Career Survey****3:2:2 Fall, Spring, Summer**

Explores careers in biotechnology with emphasis on central dogma of biology, DNA techniques, applications in biotech, and bioethics. Examines forensics and human cloning. Includes lab work. Course Lab fee of \$26 applies.

BTEC 2010**DNA Manipulation and Analysis****3:2:4 Fall, Spring**

* Prerequisite(s): BTEC 1010, BIOL 1610, and BIOL 1615, with minimum grade of C- in each

Master lab skills relevant to DNA technology; including recombinant DNA cloning, DNA gel electrophoresis, polymerase chain reaction and DNA mutagenesis. Explore cutting-edge techniques such as DNA micro arrays. Course fee of \$86 for lab applies.

BTEC 2020**Protein Purification and Analysis****3:2:3 Fall, Spring**

* Prerequisite(s): BTEC 2010 with minimum grade of C-

Teaches current techniques with protein production, purification, and analysis. Includes instruction and practice with polyacrylamide gel electrophoresis (PAGE), chromatography, western blot, and FPLC analysis. Course fee of \$107 for lab applies.

BTEC 2030**Cell Culture Techniques****2:0:6 Fall, Spring**

* Prerequisite(s): BIOL 1615, MICR 2060 with minimum grade of C- in each

Teaches basics of prokaryote and eukaryote cell culture; includes handling, storage, and maintenance of bacterial, mammalian and yeast stocks. Emphasizes media preparation and sterile techniques. Includes in vitro labeling and transfection. Course fee of \$195 for lab applies.

BTEC 2040**Advanced Nucleic Acid Laboratory****3:0:6 Fall, Spring**

* Prerequisite(s): BTEC 2010 with minimum grade of C-

Teaches advanced nucleic acid modification and analysis methods. Includes site-directed mutagenesis, DNA sequencing, and RNA analysis methods.

BTEC 481R**Biotechnology Internship****1 to 8:0:5 to 40 Fall, Spring, Summer**

* Prerequisite(s): BIOL 1610 with a minimum grade of C-, junior standing in Biotechnology B.S. program, and instructor approval

Allows biotechnology majors to earn credit while obtaining practical and research experience as an intern in a government, nonprofit, private agency, or with an approved employer. Must be supervised by agency representative and faculty advisor. Department chairperson approval required and written contracts must be completed and signed. May be repeated for a maximum of 10 credits. May be graded credit/no credit.

BTEC 489R**Student Research****1 to 4:0:3 to 12 Fall, Spring, Summer**

* Prerequisite(s): BIOL 1610, CHEM 1210, BTEC 2010, Junior or Senior Standing, instructor permission, and University Advanced Standing

Provides guided research studies in biotechnology under the direction of a Biology Department mentor. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original biology research. Requires preparation and presentation of oral and/or written reports. Results may form the basis of the senior thesis in the major, if thesis option is chosen. May be repeated for 8 credits toward graduation.

BTEC 490R**Special Topics in Biotechnology****1 to 4:0 to 4:0 to 8 Fall, Spring**

* Prerequisite(s): BIOL 1610 with minimum grade of C-, and University Advanced Standing

Explores and examines special topics relating to the field of biotechnology. Emphasizes areas of rapid growth in biotechnology or current importance to society. May be repeated for a maximum of 18 credits toward graduation.

BTEC 499R**Senior Thesis****1 to 2:0:3 to 6 Fall, Spring**

* Prerequisite(s): ENGL 2010 or ENGL 2020, junior standing, instructor permission, and University Advanced Standing

For students who are nearing completion of a baccalaureate degree in Biotechnology with the thesis option. Assists students who are writing a thesis based only on library research, or those who have performed laboratory/field research under BTEC 499R. Provides experience in critically analyzing published literature and, if laboratory/field research was performed, comparing research results with the scientific literature. Supervised by an appointed faculty member of the Department of Biology. Requires a technically accurate report on one's findings. Includes the opportunity to present the research results to students, faculty and the community at a Department of Biology seminar and/or other appropriate venues (e.g., conferences). May be repeated for a maximum of 2 credits toward graduation.

Culinary Arts (CA)

CA 1120**Cooking Skills Development****4:5:2:7.5 Fall, Spring**

* Prerequisite(s): Matriculation and acceptance into the Culinary Arts Institute

* Corequisite(s): CA 1170, CA 1310

Teaches basic food service skills in a commercial kitchen environment. Stresses the use of standardized recipes and procedures. Provides daily end product critiquing. Includes rotation between stock and sauce station, soup station, center of plate items along with appropriate starch and vegetable items, and breakfast station. Emphasizes sanitary food handling practices and professional work habits. Course fee of \$750 for materials, equipment applies.

CA 1140**Professional Dining Room Services****1:5:1.5 Fall, Spring**

* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute

Covers the key aspects and responsibilities of table servers in different styles of operations. Covers taking reservations, greeting guests, basic table settings, formal and specialized settings, food and beverage service, selling menu specials, dealing with closing checks, dealing with customer complaints, emergency procedures, and the use of a Point of Sale system.

Course Descriptions

CA 1150

Nutrition and Food Service

3:3:0 **Fall, Spring**

Provides an understanding of how and why the relationship between food and health has moved into sharp focus. This course will trace the change in dietary patterns that have been noted by the food service industry. This course has been designed to help meet the need of developing adequate healthful food programs. You will learn about the changes in eating attitudes and be able to define the various responsibilities of the food service industry. You will learn how to identify whether a market exists for a healthful food program and how to plan and manage such a program. The course will also explore nutrients and their food sources; physiological and metabolic aspects of nutrient functions; individual requirements; food choices and selection; prevention and treatment of common nutritional-related disease; along with contemporary and controversial issues.

CA 1160

Culinary Math

1:1:0 **Fall, Spring, Summer**

* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute

Allows culinary professionals to utilize all the tools necessary to manage daily food service operations for maximum efficiency and profitability. Reviews basic math functions then expands into recipe conversion, yields, recipe costing, and menu costing.

CA 1170

Pastry and Baking Skills

4.5:2:7.5 **Fall, Spring**

* Prerequisite(s): Matriculation and acceptance into the Culinary Arts Institute

* Corequisite(s): CA 1120 and CA 1310

Teaches basic baking and pastry skills in a commercial kitchen environment. Stresses the use of standardized recipes and procedures. Provides daily end product critiquing. Includes simple yeast-raised products, quick breads, pies, and custards, cakes and tortes, cookies and frozen desserts. Emphasizes sanitary food handling practices and professional work habits. Course fee of \$750 for materials, equipment applies.

CA 1180

Professional Kitchen Garde Manger

4.5:2:7.5 **Fall, Spring**

* Prerequisite(s): CA 1120 and CA 1170

* Corequisite(s): CA 1230

Emphasizes proper preparation of cold food items. Includes preparation of tossed, compound and composed salads, cold sandwiches, dressings, salad bar items, display platters, assorted forcemeat, smoked and cured items, along with marinated and assorted cold first course items. Course fee of \$750 for materials, equipment applies.

CA 1230

Professional Kitchen I Cooking

4.5:2:7.5 **Fall, Spring**

* Prerequisite(s): CA 1120 and CA 1170

* Corequisite(s): CA 1240

Emphasizes proper preparation of center of plate foods, starch, vegetable, and small sauce cookery. Studies and utilizes contemporary methods of plating and flavor profiles. Emphasizes fabrication of beef, veal, lamb, fish, poultry and fowl. Provides daily end product for evaluation and resale. Course fee of \$750 for materials, equipment applies.

CA 1260

Culinary Spanish

1:1:0 **Fall, Spring**

* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute

Designed to assist food service employers, managers, and workers to effectively communicate to an increasingly Spanish-speaking work force. Introduces short phrasing to assist in basic communication.

CA 1310

Purchasing and Storeroom Management

3:3:0 **Fall, Spring**

* Corequisite(s): CA 1120 and CA 1170

Teaches principles and practices concerning purchasing of foods, supplies, and materials for a modern full-service food service operation. Emphasizes buying, writing specifications, determining needs, and controlling quality.

CA 1320

Culinary Management

3:3:0 **Fall, Spring**

* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute

Focuses on employee management and supervision concepts used in the food service field. Includes instruction on writing a professional resume.

CA 1480

Sanitation and Table Service

3:3:0 **On Sufficient Demand**

Teaches effective food and beverage service management in outlets ranging from cafeterias and coffee shops to room service, banquet areas, and high-check-average dining rooms. Presents basic service principles while emphasizing the special needs of guests. Explains effective sanitation management to achieve high standards that will keep customers coming back. Includes lecture, film, and tapes. Develops an entry-level working knowledge of serving food and beverage.

CA 1490

Food Service Sanitation

1:1:0 **Fall, Spring, Summer**

* Prerequisite(s): Matriculation and Acceptance into the Culinary Arts Institute

Explains effective sanitation measures that will keep customers and employees safe. Using the ServSafe Program from the National Restaurant Association this course meets the state wide requirements for food service employee's sanitation and safety training.

CA 2120

Professional Kitchen II Restaurant

4.5:2:7.5 **Fall, Spring**

* Prerequisite(s): CA 282R

* Corequisite(s): CA 2130

Teaches the creation of soups, salads, appetizers, hot and cold entrees, and baked items for International Cuisine to be served in a restaurant environment. Course fee of \$750 for materials, equipment applies.

CA 2130

Advanced Pastry Baking

4.5:2:7.5 **Fall, Spring**

* Prerequisite(s): CA 1170

* Corequisite(s): CA 2120

Emphasizes proper preparation of plated desserts, cakes and torts, petit fours, and laminated doughs. Studies the use and role of value added dessert items, and banquet and catering dessert requirements. Course fee of \$750 for materials, equipment applies.

CA 2430

Menu Facilities Design and Beverage Management

3:3:0 **On Sufficient Demand**

* Prerequisite(s): CA 1310

Introduces menu design. Explores the relationship between menus and restaurant design for both production and service areas. Explains fundamental principles and techniques for planning menus for different operation styles. Provides practical experience and approaches in beverage management and service. Emphasizes legal and moral responsibilities of serving alcoholic beverages. Teaches understanding, service, and storage of beverages in full service restaurants.

CA 2450

Menu Design

2:2:0 **Fall, Spring**

* Prerequisite(s): CA 1310

Introduces menu design. Explores the relationship between menus and restaurant design for both production and service areas. Explains fundamental principles and techniques for planning menus for different operation styles.

CA 2750

Baking

3:2:4 **On Sufficient Demand**

* Prerequisite(s): Instructor Approval

Teaches intermediate baking skills. Includes lectures, demonstrations, and daily hands-on activities. Emphasizes quality products, methods/ techniques and formula development.

CA 2760

Pastry

5:3:6 **On Sufficient Demand**

* Prerequisite(s): Instructor approval

Combines patisserie skills learned in other culinary arts classes to develop advanced skills in the production of fine baked products. Stresses the use of standardized recipes and procedures. Includes cakes, tortes, pastries, chocolate, and desserts. Provides daily end-product critiquing. Course fee of \$250 for materials applies.

CA 282R**Culinary Arts Internship****1 to 8:0 to 2:5 to 40** Fall, Spring, Summer

* Prerequisite(s): Culinary Arts Institute Director Approval

Provides a transition from school to work where learned theory is applied to actual practice through a meaningful on-the-job experience commensurate with classroom instruction. May be repeated for up to eight hours toward graduation in the Culinary Arts degree. May be graded credit/no credit.

CA 296R**Culinary Arts Seminar****1 to 3:1 to 3:0** On Sufficient Demand

* Prerequisite(s): Instructor Approval

Provides short courses, workshops, and special programs in Culinary Arts topics. Repeatable for up to three credits toward graduation.

CA 298R**ACF****1:5:2****Fall, Spring**

For Culinary Arts students who are interested in participating with a national professional association (American Culinary Federation). Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.

CA 299R**VICA****1:5:2****Fall, Spring**

For Culinary Arts students who are interested in participating with a national vocational student organization (Vocational Industrial Clubs of America) that develops social awareness, civic responsibility, vocational and leadership skills through participation in educational, vocational, civic, recreational, and social activities. Prepares students to participate in local, state, and national competitions. May require payment of membership dues. A maximum of four credits may be applied toward graduation.

CA 481R**Cooperative Work Experience****2 to 9:1:5 to 40** Fall, Spring, Summer

* Prerequisite(s): Approval of School of Business Career and Corporate Manager and University Advanced Standing

For upper division students working towards a Bachelor of Science Degree in Hospitality Management with an emphasis in Food and Beverage. Provides opportunities to apply classroom theory on the job. Students work in a restaurant kitchen while enrolled at the college. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. May apply 6 credits toward a Bachelor of Science Degree in Hospitality Management. May be graded credit/no credit.

Cabinetry and Archit Woodwork (CAW)

CAW 100R**Survey of Working with Wood****2:0:5****Fall, Spring**

An introductory course for those interested in working with wood. Students will experience the satisfaction of making a piece of furniture with individualized help from the instructor. Includes "hands on" practice with woodworking equipment and instruction in methods to design, build, and finish a wood project. May be repeated up to four times for credit. Course fee of \$15 for materials, equipment applies.

CAW 1100**Artistic Wood Design****2:1:4****On Sufficient Demand**

Explores form, functions, and utility of wood products through students' design and creation of projects in the wood lab. Provides opportunities to design and create a unique piece of woodwork.

CAW 1130**Residential Cabinetry****4:1:9****Spring**

Studies cabinetmaking methods including joinery, construction, gluing, and clamping. Includes building a set of residential cabinets. Introduces hand and portable electric and air tools. Covers tool care and minor repairs. Stresses functions, selection, maintenance, and safety. Course fee of \$15 for materials, equipment applies.

CAW 1140**Millworking and Safety Shop I****5:0:15****Fall**

A lab for CAW students. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Safety is taught the first 15 hours and stressed throughout the course. Course fee of \$25 for materials, equipment applies.

CAW 114A**Millworking and Safety Shop I****2.5:0:7.5****Fall**

Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course. Course fee of \$15 for materials, equipment applies.

CAW 114B**Millworking and Safety Shop I****2.5:0:7.5****Spring**

Laboratory for Cabinetry students. Covers half of CAW 1140. Teaches fundamentals of woodworking machines and standard millwork operations. Studies correct construction techniques. Teaches safety the first 15 hours and stressed throughout the course. Course fee of \$15 for materials, equipment applies.

CAW 1150**Design Drafting and Billing****3:3:0****Fall**

For CAW majors and other interested community members. Teaches detailed drawing concepts, writing bills of materials, and material cost estimates. Uses all elements of good design.

CAW 1170**Finish Technology****2:2:1****Fall**

For CAW majors and other interested community members. Studies types of stains, fillers and finishes, and techniques to properly prepare wood. Teaches hand and spray painting. Includes lab experience. Course fee of \$15 for materials applies.

CAW 1210**Cabinetmaking Materials and Hardware****1:1:0****Fall**

Emphasizes characteristics of wood, plastic laminates, plywoods, and particle boards. Discusses proper use and residential hardware. Covers specifications, types, selection, and installation.

CAW 1240**Millworking Shop II****5:0:15****Spring**

A second semester shop course for CAW students and interested community members. Teaches the design and construction of more difficult millworking projects. Studies advanced jointers, finishing techniques, and fastening devices. Stresses safety. Course fee of \$25 for materials, equipment applies.

CAW 124B**Millworking Shop II****2:0:6****On Sufficient Demand**

A second semester shop course for CAW students and interested community members. Covers half of CAW 1240. Teaches the design and construction of more difficult Millworking projects. Studies advanced jointers, finishing techniques, and fastening devices. Stresses safety. Course fee of \$15 for materials, equipment applies.

CAW 1250**Drafting and Computer Applications for Cabinetmakers****4:4:0****Spring**

Emphasizes design, purpose, function, appearance, materials, and construction for quality cabinetmaking. Covers efficient timesaving methods. Teaches material cost estimating. Teaches basic CNC software. Uses computer software Cabinet Vision & Master CAM. Course fee of \$15 for materials, software applies. Lab access fee of \$15 for computers applies.

CAW 140R**Millwork Technology****4:0:12****Spring**

Teaches the techniques and skills necessary to construct quality furniture using current technology and processes. Stresses safety, machine and tool usage, joinery, and operations. Each semester the joinery and operations will differ and increase in difficulty depending on the required project. May be repeated for a maximum of 16 credits toward graduation.

CAW 2250**Computer Aided Manufacturing for Woodworking****4:3:3**

Teaches how to use computer numerical controlled "CNC" machines to aid in the manufacturing of wood products. Includes machine setup, tooling, software usage, and parts production. Uses CAM software.

Course Descriptions

CAW 2300
Counter Top Technology
3:3:0 **Spring**

Explores methods used to produce different types of counter-tops. Studies high pressure laminates, solid wood, solid surface, tile, and stone. Includes field trips to counter-top shops. Course fee of \$25 for materials, equipment applies.

CAW 2310
Cabinetry Math
2:2:0 **Fall**

Covers math used in cabinetmaking. Includes fractions, decimals, percents, interest, volume, and metrics. Studies special trade formulas. Students receive instruction through structured situations to cope with the special problems required in the woodworking industry.

CAW 2340
Millworking Shop III
5:0:15 **Fall**

Custom cabinetmaking shop. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of \$25 for materials, equipment applies.

CAW 234A
Millworking Shop III
2.5:0:7.5 **Fall**

Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of \$15 for materials, equipment applies.

CAW 234B
Millworking Shop III
2.5:0:7.5 **Spring**

Custom cabinetmaking shop. Covers half of CAW 2340. Practice in making and setting up custom shaper knives, doing custom flat and curved veneer and lamination work. Includes lathe work on the duplicator attachments. Completers should be able to enter the field as a cabinet and architectural woodwork trainee. Course fee of \$15 for materials, equipment applies.

CAW 2430
Commercial Cabinetry Technology
4:1:9 **Fall**

Studies zoning, shop flow, and production set. Includes field trip to commercial cabinet shop. Teaches set up of machines used in the industry. Course fee of \$15 for materials, equipment applies.

CAW 2440
Millworking Shop IV
5:0:15 **Spring**

A culminating architectural woodworking shop. Students build projects demonstrating advanced skills learned in previous shop courses. Course fee of \$25 for materials, equipment applies.

CAW 244B
Millworking Shop IV
2:0:6 **On Sufficient Demand**

Culminates previous architectural woodworking courses. Covers half of CAW 2440. Requires advanced skills, learned previously, to complete projects. Course fee of \$15 for materials, equipment applies.

CAW 2450
Machine Maintenance and Upkeep
2:2:0 **Spring**

Studies the maintenance and upkeep of machines and tools used in the woodworking industry. Focuses on sharpening, routine maintenance, machine set-up, adjustments, and diagnosing problems.

CAW 281R
Cooperative Work Experience
1 to 8:0:5 to 40 **Fall, Spring**

* Corequisite(s): CAW 285R the first time only
For CAW majors. Provides paid, on-the-job work experience in the student's major. Work experience, the related class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated twice for credit. May be graded credit/no credit.

CAW 285R
Cooperative Correlated Class
1:1:0 **Fall, Spring**

* Corequisite(s): CAW 281R the first time only
For CAW majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated twice for credit.

CAW 299R
Skills USA
1:1:0 **Spring**

Supports and facilitates the goals and objectives of Skills USA pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated for a maximum of 2 credits toward graduation.

Chemistry (CHEM)

CHEM 1010 **PP**
Introduction to Chemistry
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): MAT 1000 or MAT 1010 or equivalent
* Corequisite(s): CHEM 1015 (optional)

Assumes no previous knowledge of chemistry. Presents the foundations of chemistry to students who need preparation for further study in chemistry as well as to students who only want to take an introductory course. Covers chemical measurements, atomic structure, formulas, chemical reactions and equations, chemical nomenclature, stoichiometry, molecules and chemical bonding, gas laws, liquids, solids, solutions, acids and bases.

CHEM 1015
Introduction to Chemistry Lab
1:0:2 **Spring**

* Corequisite(s): CHEM 1010

A lab designed to accompany CHEM 1010. Provides practical experience to support chemistry foundational learning. Emphasizes chemical measurements, atomic structure, formulas, chemical reactions and equations, chemical nomenclature, stoichiometry, molecules and chemical bonding, gas laws, liquids, solids, solutions, acids and bases.

CHEM 1110 **PP**
Elementary Chemistry for the Health
Sciences

4:4:0 **Fall, Spring, Summer**
* Prerequisite(s): MAT 1000 or MAT 1010 or MAT 1030 or MAT 1035 or MATH 1050 or MATH 1055

Introduces the fundamentals of chemistry to students in the health sciences. Covers chemical measurements and calculations, atomic structure, chemical bonding, chemical reactions, states of matter, solutions, chemical equilibrium, acid-base systems, and introduces organic chemistry.

CHEM 1115
Elementary Chemistry Laboratory
1:0:2 **Fall, Spring, Summer**

* Prerequisite(s): MAT 1000 or MAT 1010 or MAT 1030 or MAT 1035 or MATH 1050 or MATH 1055
* Corequisite(s): CHEM 1010 or CHEM 1110

Introduces inorganic laboratory experiments including density, precipitation, determination of empirical formulas, gas laws and acid-base reactions. Course Lab fee of \$20 applies.

CHEM 1120 **PP**
Elementary Organic Bio-Chemistry
4:4:0 **Spring**

* Prerequisite(s): CHEM 1110

Introduces organic and biochemistry for non-chemistry majors entering nursing and other allied health fields such as medical technology, physical therapy, nutrition, and environmental technology. Studies the nomenclature of organic compounds, organic functional groups and their reactivities, stereochemistry, major biomolecules and their metabolism, enzymes, chemical communications, and chemistry of heredity. May also be used to prepare for organic chemistry (CHEM 2310 and 2320).

CHEM 1125
Elementary Organic Bio-Chemistry
Laboratory
1:0:3 **Spring**
 * Prerequisite(s): CHEM 1110 and CHEM 1115
 * Corequisite(s): CHEM 1120

An introductory organic bio-chemistry laboratory class for non-chemistry majors who need a laboratory to accompany Elementary Organic Bio-Chemistry (CHEM 1120). Explores identifications and reactions of organic functional groups and conducts experiments with biomolecules. Course Lab fee of \$76 applies.

CHEM 1210 **PP**
Principles of Chemistry I
4:4:0 **Fall, Spring, Summer**
 * Prerequisite(s): MATH 1050 or equivalent, also it is highly recommended to have prior chemistry experience in high school or in CHEM 1010 at UVU
 * Corequisite(s): CHEM 1215

First semester of a full-year course primarily for students in the physical and biological sciences and engineering. Covers fundamentals of chemistry including atoms, molecules, reactions, stoichiometry, chemical bonding, thermochemistry, and gas laws.

CHEM 1215
Principles of Chemistry I Laboratory
1:0:3 **Fall, Spring, Summer**
 * Corequisite(s): CHEM 1210

Primarily for students in the physical and biological sciences and engineering. Introduces laboratory safety and chemical waste disposal practices. Teaches techniques of using standard laboratory equipment. Shows how to record laboratory data and prepare laboratory reports. Experiments follow topics in CHEM 1210. Course Lab fee of \$39 applies.

CHEM 1220 **PP**
Principles of Chemistry II
4:4:0 **Fall, Spring, Summer**
 * Prerequisite(s): CHEM 1210 with a grade of C- or higher
 * Corequisite(s): CHEM 1225

Continuation of Chemistry 1210. Primarily for students in the physical and biological sciences and engineering. Covers intermolecular interactions, properties of solutions, kinetics, equilibria, thermodynamics, and electrochemistry.

CHEM 1225
Principles of Chemistry II Laboratory
1:0:3 **Fall, Spring, Summer**
 * Prerequisite(s): CHEM 1215
 * Corequisite(s): CHEM 1220

Is designed for the physical and biological sciences and engineering. Teaches intermolecular interactions, properties of solutions, kinetics, equilibria, thermodynamics, and electrochemistry. Follows CHEM 1215 and emphasizes topics from CHEM 1220.

CHEM 2310
Organic Chemistry I
4:4:0 **Fall, Spring, Summer**
 * Prerequisite(s): CHEM 1220 with a grade of C- or higher
 * Corequisite(s): CHEM 2315

The first in a series of two organic chemistry classes for students majoring in science and for those interested in careers in medicine, dentistry, veterinary science, and pharmacy, who must complete two semesters of organic chemistry. Teaches bonding and structures of organic molecules. Explores the relationship between structure and reactivity of organic functional groups. Introduces the concepts of nomenclature, stereochemistry, and reaction mechanism.

CHEM 2315
Organic Chemistry I Laboratory
1:0:4 **Fall, Spring, Summer**
 * Prerequisite(s): CHEM 1220, CHEM 1225
 * Corequisite(s): CHEM 2310

The first of a series of two laboratory courses to accompany CHEM 2310 and 2320. For students majoring in science and those interested in careers in medicine, dentistry, veterinary science, and pharmacy. Introduces safety in organic chemistry lab and chemical waste disposal. Teaches basic separatory, purification, and analytical techniques in organic chemistry such as crystallization, melting points, distillation and chromatography. Introduces organic synthesis using simple organic reactions. Introduces natural product isolation. Course Lab fee of \$142 applies.

CHEM 2320
Organic Chemistry II
4:4:0 **Fall, Spring, Summer**
 * Prerequisite(s): CHEM 2310 with a C- or higher

The second of a series of two organic chemistry classes for students majoring in science and for those interested in careers in medicine, dentistry, veterinary science, and pharmacy, who must complete two semesters of organic chemistry. Introduces spectroscopic techniques used in identification of organic compounds. Teaches carbon-carbon bond formation strategies. Introduces the concept of aromaticity. Teaches free radicals and their effects on environment and life. Surveys biologically important organic molecules such as carbohydrates, proteins, lipids, and nucleic acids.

CHEM 2325
Organic Chemistry II Laboratory
1:0:4 **Fall, Spring, Summer**
 * Prerequisite(s): CHEM 2315
 * Corequisite(s): CHEM 2320

The second of a series of two laboratory courses to accompany CHEM 2310 and 2320. For students majoring in science and those interested in careers in medicine, dentistry, veterinary science, and pharmacy. Provides hands-on experience in organic synthesis using a series of single and multistep transformations. Teaches identification of products of reactions using spectroscopic techniques. Explores biologically important organic molecules. Course Lab fee of \$169 applies.

CHEM 3000
Analytical Chemistry
2:2:0 **Fall, Spring**
 * Prerequisite(s): CHEM 1220, CHEM 1225 and Advanced University Standing
 * Corequisite(s): CHEM 3005

For Chemistry majors and others interested in the basic principles of chemical measurement. Studies principles of quantitative analysis, stoichiometry, equilibrium theory, and volumetric analysis. Introduces error analysis and instrumental methods, especially electrochemistry, spectrophotometry, chromatography, and mass spectrometry

CHEM 3005
Analytical Chemistry Laboratory
2:0:6 **Fall, Spring**
 * Prerequisite(s): CHEM 1220, CHEM 1225, and University Advanced Standing
 * Corequisite(s): CHEM 3000

For Chemistry majors and others interested in the basic principles of chemical measurement. Laboratory companion to CHEM 3000. Involves conducting experiments in quantitative and qualitative analysis, including volumetric and gravimetric analysis. Also, students will conduct experiments in introductory instrumental methods, including experiments in spectrophotometry, electrochemistry, and chromatography. Course Lab fee of \$240 applies.

CHEM 3020
Environmental Chemistry
3:3:0 **Fall Odd Years**
 * Prerequisite(s): CHEM 1225 and University Advanced Standing

Studies the chemistry of soil, ground water, hazardous waste, and the atmosphere. Explores current environmental concerns and issues.

CHEM 3025
Environmental Chemistry Laboratory
1:0:3 **On Sufficient Demand**
 * Prerequisite(s): CHEM 1225 and University Advanced Standing
 * Corequisite(s): CHEM 3020

Laboratory course which supports CHEM 3020, Environmental Chemistry. Introduces laboratory, sampling, and data analyses techniques used in environmental laboratories. Covers air sampling, and soil and water analysis using a variety of instruments and techniques.

CHEM 3060
Physical Chemistry I
4:4:0 **Fall**
 * Prerequisite(s): PHYS 2220, MATH 1220, and University Advanced Standing
 * Corequisite(s): CHEM 3065

Teaches the laws of thermodynamics and chemical thermodynamics with application to chemical reactions and chemical equilibrium. Covers changes of state, including the use of phase diagrams. Discusses real gases and real solutions. Introduces electrochemistry and chemical kinetics.

Course Descriptions

CHEM 3065

Physical Chemistry Laboratory

1:0:4

Fall

* Prerequisite(s): PHYS 2220, MATH 1220, and Advanced University Standing
* Corequisite(s): CHEM 3060

Explores principles and concepts introduced in CHEM 3060. Teaches design and execution of physical chemistry experiments and interpretation of the observations. Uses application of physical chemistry to solving physical chemistry problems.

CHEM 3070

Physical Chemistry II

4:4:0

Spring

* Prerequisite(s): CHEM 3060, MATH 2210 and University Advanced Standing

Features advanced discussions of quantum mechanics, including solutions to the Schrodinger wave equation. Connects quantum mechanics with observable quantities using techniques such as spectroscopy.

CHEM 3080

Statistical Mechanics and Chemical Kinetics

3:3:0

On Sufficient Demand

* Prerequisite(s): CHEM 3070 and University Advanced Standing

Teaches the fundamentals of statistical mechanics and chemical kinetics, as well as the fundamentals of the specialized topics of the physical chemistry of chemical symmetry, computational chemistry, NMR spectroscopy, and electrochemistry.

CHEM 3100

Advanced Inorganic Chemistry

4:4:0

Spring

* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): CHEM 3000

Reviews major trends across the periodic table. Surveys basic structure, bonding, and oxidation states of the elements. Introduces inorganic stereochemistry including coordination compounds.

CHEM 3115

Physical and Inorganic Chemistry Laboratory

1:0:4

Spring

* Prerequisite(s): CHEM 3000, CHEM 3060, and University Advanced Standing
* Corequisite(s): CHEM 3100, CHEM 3070

Covers both inorganic chemistry and physical chemistry topics. Inorganic chemistry experiments follow lecture topics in CHEM 3100 and physical chemistry experiments follow lecture topics in CHEM 3060 and CHEM 3070. Course Lab fee of \$144 applies.

CHEM 3600 (Cross-listed with: BIOL 3600)

Biological Chemistry

3:3:0

Fall, Spring, Summer

* Prerequisite(s): CHEM 2320 and University Advanced Standing

Introduces principles of the chemical processes that define living organisms. Covers structure and function of proteins, carbohydrates, lipids and nucleic acids. Explores metabolic pathways, biosynthesis, enzymatics, thermodynamics, membrane dynamics and related processes within a living cell. Emphasizes molecular mechanisms of reactions and their outcome.

CHEM 3605 (Cross-listed with: BIOL 3605)

Biochemistry Laboratory

1:0:4

Fall, Spring

* Prerequisite(s): University Advanced Standing
* Corequisite(s): CHEM 3600

Introduces laboratory techniques in biochemistry. Studies methods and theory behind purification of proteins and nucleic acids including chromatography and electrophoresis. Uses methods in assessing enzyme activity and kinetics and protein structure analysis. Includes analysis and manipulation of DNA and RNA. Course Lab fee of \$151 applies.

CHEM 3620

Biological Chemistry II

3:3:0

Spring

* Prerequisite(s): (CHEM 3600 or BIOL 3600) and University Advanced Standing

Continuation of CHEM 3600. Teaches in-depth the biochemistry of molecular and cell biology processes. Explores the topics of molecular information flow and signaling. Examines current understanding in biochemical methods and ideas beyond those discussed in Biochem I.

CHEM 3700

Forensic Analytical Chemistry

3:3:0

On Sufficient Demand

* Prerequisite(s): CHEM 3000, CHEM 2320, and University Advanced Standing
* Corequisite(s): CHEM 4000, CHEM 4005

For students in forensic chemistry emphasis and for chemistry majors interested in forensic science. Studies the challenges, methods, instrumentation, and analyses of forensic science from a fundamental, chemical perspective.

CHEM 3800 (Cross-listed with: ENVT 3800, PHYS 3800)

Energy Use on Earth

3:3:0

Fall

* Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and (MATH 1050 or MATH 1055) and University Advanced Standing

Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and end use in all sectors of our society, including transportation, residential living, and industry. Examines the impacts of our energy consumption on the environment and prospects for alternative energy sources. Intended for science majors interested in energy use in society or in an energy related career, and for students in other majors who feel that a technical understanding of energy use will help them to understand and mitigate its impact in our society.

CHEM 4000

Instrumental Analysis

2:2:0

Spring

* Prerequisite(s): CHEM 3000, and University Advanced Standing
* Corequisite(s): CHEM 4005

Covers modern instrumental methods and basic principles of instrumentation. Includes spectroscopic and chromatographic analysis.

CHEM 4005

Instrumental Analysis Laboratory

2:0:6

Spring

* Prerequisite(s): CHEM 3000, CHEM 2325, and University Advanced Standing
* Corequisite(s): CHEM 4000

Experiments in selected areas of instrumental methods of analysis. Covers both quantitative and qualitative methods of analysis. Includes introductory laboratory exercises and laboratories using advanced sample preparation and instrumental analysis techniques. Involves the independent creation and implementation of an advanced laboratory exercise. Course Lab fee of \$247 applies.

CHEM 4030

Radiochemistry

3:3:0

Fall Even Years

* Prerequisite(s): CHEM 1220, MATH 1210, and University Advanced Standing

Introduces nuclear and radiochemistry, stressing the fundamentals of nuclear structure, systematics of nuclear decay, the detection and measurement of radiation, radiation protection, and the role of nuclear chemistry in medical, environmental and scientific applications. Discusses nuclear fuel cycles and nuclear waste problems.

CHEM 4200 (Cross-listed with: BIOL 4200, GEO 4200, PHYS 4200)

Teaching Methods in Science

3:2:2

Fall, Spring

Examines objectives, instructional methods and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

CHEM 4600

Structure Determination

2:2:0

Fall

* Prerequisite(s): CHEM 3060, and University Advanced Standing

* Corequisite(s): CHEM 4605

* Prerequisite(s) or Corequisite(s): CHEM 3100, CHEM 3600

Explores integrated topics in organic, inorganic, physical, solid-state, and biochemistry using advanced theory. Enables hands-on use and manipulation of state-of-the-art instrumentation. Examines primary chemistry literature, and involves substantial problem solving using spectroscopic and spectrometric data.

CHEM 4605

Structure Determination Laboratory

1:0:4

Fall

* Prerequisite(s): CHEM 2320, CHEM 2325, CHEM 3060, and University Advanced Standing
* Corequisite(s): CHEM 4600

Exposes students to integrated topics in organic, inorganic, physical, solid-state, and biochemistry using advanced theory. Enables hands-on use and manipulation of state-of-the-art instrumentation. Immerses students in the primary chemistry literature, and involves substantial problem solving using spectroscopic and spectrometric data. Taken as a corequisite with CHEM 4605

**CHEM 4800
Pharmacology**

3:3:0 **Fall**
 * Prerequisite(s): (CHEM 3600 or BIOL 3600) and University Advanced Standing

Explores the science behind pharmacological therapeutics. Examines general considerations such as pharmacokinetics, drug metabolism, and toxicology. Surveys focused topics including drugs and drug targets for a wide variety of diseases.

**CHEM 482R
Chemistry Internship**

1 to 4:0:5 to 20 **Fall, Spring, Summer**
 * Prerequisite(s): CHEM 2320, a minimum GPA of 3.0, Departmental approval of the internship proposal, and University Advanced Standing

Provides supervised, practical, and research experience for students preparing for careers in chemistry. May be repeated for a maximum of 12 credit hours as per school standards. May be graded credit/no credit.

**CHEM 489R
Undergraduate Research in Chemistry**

1 to 3:0:3 to 9 **Fall, Spring, Summer**
 * Prerequisite(s): Departmental approval and University Advanced Standing

Conducts research on a project determined by the student jointly with a chemistry faculty and approved by the Chemistry Department Chair. Experimental technique, data collection and analysis, and preparation of research for presentation to an audience of peers will be emphasized. May be repeated for a maximum of 9 credits toward graduation.

**CHEM 491R
Advanced Topics in Inorganic Chemistry**

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): CHEM 1220, instructor's permission, and University Advanced Standing; CHEM 3100 or CHEM 3600 or BIOL 3600 recommended

Examines advanced and current topics of inorganic chemistry including bioinorganic chemistry, symmetry and molecular orbital theory, and the descriptive chemistry of main-group compounds. Varies from semester to semester. Offered on demand. May be repeated for a maximum of 9 credits.

**CHEM 4920
Chemistry Capstone I**

1:1:0 **Fall**
 * Prerequisite(s): CHEM 2320 with a C- or higher and University Advanced Standing; ENGL 2010 or ENGL 2020 highly recommended

Begins a four semester capstone series that engages students in current chemistry topics, enables students to become familiar with chemistry literature resources, teaches chemistry research and design, and prepares students for further education and employment in chemistry-related fields. Requires students to present their findings in the form of a written senior thesis. Focuses on current topics in chemistry and on chemistry literature. Includes significant writing opportunities. Requires students to choose a capstone project with the help of a faculty mentor and to work with that mentor for the remainder of the capstone project.

**CHEM 4930
Chemistry Capstone II**

1:1:0 **Spring**
 * Prerequisite(s): CHEM 4920 with a C- or higher and University Advanced Standing
 * Corequisite(s): CHEM 489R

Continues a four semester capstone series. Teaches chemistry research and design for further education and employment in chemistry-related fields. Focuses on current topics in chemistry, chemistry literature and formal report writing based on American Chemical Society guidelines. Requires work with a faculty mentor to complete laboratory primary research that will be used to write a senior thesis that will be completed in CHEM 4950.

**CHEM 4940
Chemistry Capstone III**

1:1:0 **Fall**
 * Prerequisite(s): CHEM 4930 with a C- or higher and University Advanced Standing
 * Corequisite(s): CHEM 489R

Continues a four semester capstone series. Teaches chemistry research and design for further education and employment in chemistry-related fields. Focuses on current topics in chemistry, chemistry literature and formal report writing based on American Chemical Society guidelines. Requires work with a faculty mentor to complete laboratory primary research that will be used to write a senior thesis that will be completed in CHEM 4950.

**CHEM 4950
Chemistry Capstone IV**

1:1:0 **Spring**
 * Prerequisite(s): CHEM 4940 with a C- or higher and University Advanced Standing
 * Corequisite(s): CHEM 489R

Completes a four semester capstone series that engages students in current chemistry topics, enables students to become familiar with chemistry literature resources, teaches chemistry research and design, and prepares students for further education and employment in chemistry-related fields.

**CHEM 495R
Advanced Topics in Organic Chemistry**

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): CHEM 2310, CHEM 2320, Instructor approval, and University Advanced Standing

For students majoring in Chemistry. Varies from semester to semester. May be repeated for a maximum of 9 credits. Topics include organic synthesis, reaction mechanisms, and identification of organic compounds.

**CHEM 496R
Special Topics in Chemistry**

1 to 4:1 to 4:0 to 9 **On Sufficient Demand**
 * Prerequisite(s): CHEM 2320, Junior or Senior standing, instructor approval, and University Advanced Standing

Explores special topics in chemistry. Topics vary depending on student demand and current topics of significance in chemistry. May be repeated for a maximum of 8 credits toward graduation.

**CHEM 499R
Independent Study and Research**

1 to 4:0:3 to 12 **Fall, Spring, Summer**
 * Prerequisite(s): Instructor approval and University Advanced Standing

Uses independent study on selected topics and conducting experiments in the same topic. Provides guidance by a faculty member. May be taken for a maximum of 4 credits.

**CHEM 525R
Advanced Topics for Chemistry Teachers**

1 to 5:1 to 5:0 to 10 **Summer**
 * Prerequisite(s): Departmental Approval

For licensed teachers or teachers seeking to recertify their chemistry endorsement from the Utah State Office of Education. Teaches principles of chemistry and pedagogy of teaching chemistry for teachers in public or private schools. Emphasizes correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

Chinese (CHIN)

CHIN 1010 **LH**
Beginning Chinese I
4:4:1 **Fall**

Studies Mandarin. Emphasizes oral proficiency in pronunciation and basic conversation as well as traditional grammar concepts. Focuses on receptive language learning, then verbally-expressive language learning. Lab access fee of \$10 applies.

CHIN 1020 **LH**
Beginning Chinese II
4:4:1 **Spring**

* Prerequisite(s): Students need equivalent knowledge of CHIN 1010

Continues the same mode of learning as CHIN 1010 with renewed emphasis on conversational skills. Introduces characters and elementary calligraphy, reading and writing. Lab access fee of \$10 applies.

CHIN 115R
Chinese Conversation I
1:1:0

Offers novice Chinese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

Course Descriptions

CHIN 2000

Chinese Character Writing

2:2:0 On Sufficient Demand

* Prerequisite(s): Basic Chinese speaking ability

Prepares students who have oral fluency in Chinese to read and write Chinese (Kanji Characters). Develops skills in sentence and paragraph writing according to Chinese language norms and format.

CHIN 2010

Intermediate Chinese I

4:4:1 **Fall**

* Prerequisite(s): Students need equivalent knowledge of CHIN 1020

Emphasizes increased communicative ability as well as grammatical accuracy; adds more complex, literary grammatical structures; focuses on reading of basic 600 characters and writing of basic 300 characters. Uses diglot weave (mixture of English and Chinese) and character-romanization mix to ease learning of characters. Lab access fee of \$10 applies.

CHIN 202G

Intermediate Chinese II

4:4:0 **Spring**

* Prerequisite(s): Students need equivalent knowledge of CHIN 2010

Emphasizes increased communicative ability as well as grammatical accuracy; adds more complex, literary grammatical structures, as well as discussion of contemporary cultural and political themes. Includes reading of basic 1000 characters and writing of basic 450-600 characters. Uses diglot weave (mixture of English and Chinese) and character-romanization mix to ease learning of characters. Lab access fee of \$10 applies.

CHIN 215R

Chinese Conversation II

1:1:0

* Prerequisite(s): Students should have equivalent knowledge of CHIN 1020

Offers lower division / novice Chinese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

CHIN 3030

Chinese Composition and Conversation

3:3:0

* Prerequisite(s): (CHIN 202G or equivalent experience or instructor approval) and University Advanced Standing

Advances mastery of Chinese grammar while emphasizing production skills of speaking and writing. Expands reading and listening skills to a lesser degree. Reviews and extends lexical depth. Allows students without experience living in a Chinese immersion setting to advance in their communication skills to where they may participate more comfortably in future upper division courses with other students who do have immersion experience. Offers a variety of topics presented in a variety of media as content basis for real communicative practice in Chinese. Conducts all course work primarily in Chinese. Chinese character learning prepares students advanced reading in Chinese.

CHIN 3050

Advanced Chinese

3:3:1

* Prerequisite(s): CHIN 202G, one year residency in a Chinese-speaking country, or instructor approval

Designed for non-native Mandarin speakers who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Mandarin Chinese. Sharpens students' speech making, reading and writing skills through advanced Chinese readings on culture, civilization and society, with an emphasis on vocabulary, grammar and syntax. Enhances students' cultural knowledge and awareness through a variety of carefully designed practices and activities. Taught predominantly in Chinese.

CHIN 3118

Chinese Popular Culture

3:3:0

* Prerequisite(s): High school students have to pass the AP Chinese Language test with a score of 3 or above.

This course is part of the State of Utah Chinese Bridge Program, and it will be taught only in high schools for high school students. Not to be taught on college campus for university students. Explores the role that current film, media, and entertainment play in the Chinese-speaking world and exposes students to the historical and cultural perspectives presented through these media. This course is instructed in Chinese.

CHIN 3200

Business Chinese I

3:3:0

* Prerequisite(s): CHIN 3050 and University Advanced Standing

Prepares students to take the Business Chinese Test (BCT), a state-level standardized test designed to assess the Chinese proficiency of non-native speakers engaged in business activities. Explores how students can effectively and respectfully pursue business activities with Chinese companies within the framework of Chinese culture, sponsored by Office of Chinese Language Council International. Taught predominantly in Chinese.

CHIN 3510

Chinese Culture and Civilization

3:3:0

* Prerequisite(s): (CHIN 3050 or equivalent) and University Advanced Standing

Explores chronologically the evolution and development of Chinese culture and civilization, and a multitude of aspects that construct Chinese national identity and civilization. Examines modern and contemporary issues, cultural, ethnic, historic, social and economic development of China, as well as historical prosperity and decline, and independence from and interdependence with other nations. Conducted entirely in Mandarin Chinese, including presentations and class instructions.

CHIN 4050

Chinese Language and Culture

3:3:0

* Prerequisite(s): CHIN 3050, over one year residency in a Mandarin Chinese-speaking country, or instructor approval, and University Advanced Standing

Designed for non-native Mandarin speakers who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Mandarin Chinese. Sharpens students' speech making, reading and writing skills through advanced Chinese readings on culture, civilization and society, with an emphasis on vocabulary, grammar and syntax. Enhances students' cultural knowledge and awareness through a variety of carefully designed practices and activities. Taught predominantly in Chinese.

CHIN 4100

Translation and Interpretation

3:3:0

* Prerequisite(s): CHIN 4050 and University Advanced Standing

Introduces translation as a discipline. Discusses basic theory, principles and tools of translation. Employs the tools of translation: dictionaries, glossaries, grammars and computerized resources. Extensive practice of translation and interpretation from English to Chinese and from Chinese to English.

CHIN 4200

Business Chinese II

3:3:0

* Prerequisite(s): CHIN 3200 and University Advanced Standing

Builds on the content of CHIN 3200. Teaches students business Chinese with more complicated grammatical and rhetorical structures. Studies business Chinese terms and expressions, subtle business Chinese culture and customs practiced in Chinese business society, and the more advanced Chinese business language and culture in Chinese societal settings. Prepares students to effectively and respectfully pursue business activities with Chinese companies within the framework of Chinese culture through a better understanding of the language, culture and society. Strengthens and prepares students to take the Business Chinese Test (BCT), a state-level standardized test designed to assess the Chinese proficiency of non-native speakers engaged in business activities. Taught predominantly in Chinese.

CHIN 4500**Advanced Writing in Chinese****3:2:3 On Sufficient Demand**

* Prerequisite(s): (CHIN 3050 or CHIN 4050) and University Advanced Standing

Designed to improve students' accuracy, clarity and use of appropriate styles, forms and vocabularies when writing in Chinese. Informs students of the significant roles played by styles, content and intentionality of discourse in their writing, and focuses on improving their skills in addressing the requirements of those various roles in different contexts.

CHIN 490R**Special Topics in Chinese Language and Literacy****3:3:0 On Sufficient Demand**

* Prerequisite(s): CHIN 3050, University Advanced Standing

Presents selected topics in Chinese language and literacy (grammar, literacy, and culture). Covers topics such as " Practical Modern Chinese Grammar" or " Modern Chinese Literacy and Sentence Structure". Studies the main points in Modern Chinese language, literacy and their relations to Chinese society, history and culture. Projects and evaluation will vary according to the topic. May be repeated for a maximum of 9 credits toward graduation.

Chinese Studies (CHST)

CHST 200G**Introduction to Chinese Studies****3:3:0 Fall**

* Prerequisite(s): ENGL 1010

Taught in English. Introduces Chinese Language and Culture to interested students and gives them an overview about the minor study program. Includes an introduction into the characteristics of Chinese script by memorizing a few everyday expressions in Chinese. Introduces Chinese history, economy, society, politics, culture and popular culture, and ethics including philosophy, religions, beliefs, film, literature, contemporary discourses.

CHST 362G**Traditional Chinese History****3:3:0 Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces the student to the broad outlines of the cultural history of traditional China from some of the earliest historical records (about 1200 BCE) up through the late imperial period (about 1800 CE). Taught in English.

CHST 363G**Modern Chinese History****3:3:0 Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces the student to the broad outlines of Chinese Civilization from the last Imperial Dynasty until the present day. Taught in English.

CHST 373G**Classical Chinese Literature****3:3:0 Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies classical Chinese literature within the historical, cultural, thematic, and aesthetic context. Taught in English.

CHST 375G**Modern Chinese Literature****3:3:0 Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies modern Chinese literature within the historical, cultural, thematic, and aesthetic context. Taught in English.

CHST 416G**Chinese Culture and Film****3:3:0 Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines a selection of films from internationally acclaimed Chinese film directors.

CHST 481R**Internship****1 to 8:0:5 to 40**

* Prerequisite(s): Departmental Approval, and University Advanced Standing

For upper-division students working toward a Minor in Chinese Studies or Chinese Commerce. On approval also counts for a Bachelor of Science Degree in Business Management. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. No more than three credit hours of internship work experience will apply toward graduation in Chinese Studies or in any Business Management Specialization; may be repeated for a maximum of 16 credits. May be graded credit/no credit.

CHST 490R**Special Topics in Chinese Studies or Commerce****3:3:0 Fall, Spring, Summer**

* Prerequisite(s): University Advanced Standing

Taught in English. Covers topics of social change, history, political science, culture including literature, art, cinema, economy including commerce, and business culture. Offers insights into Chinese life in the past and today. Defines terminology involved, studies evolution and/or specific texts or contexts, and considers theoretical discourse. Provides additional materials in Chinese for students who want more language practice, e.g., in the Chinese Language minor. May be repeated for a maximum of 9 credits toward graduation.

Cinema Studies (CINE)

CINE 2150 (Cross-listed with: ENGL 2150) HH**Critical Introduction to Cinema Studies****3:3:0 Spring**

* Prerequisite(s): ENGL 2010

Studies film as an aesthetic and cultural medium. Teaches the fundamentals of film, including narrative form, mis en scene, cinematography, editing, sound, and non-narrative forms. Teaches film analysis, including ideological approaches, and considers film as a cultural institution. May be delivered hybrid.

CINE 217G (Cross-listed with: COMM 217G, ENGL 217G) HH**Race Class and Gender in US Cinema GI****3:3:0 Fall**

* Prerequisite(s): ENGL 1010

Raises cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of the representation of race, class, and gender in American cinema. Focuses on both Hollywood and independent minority filmmakers. Some films screened may carry an 'R' rating.

CINE 2311 (Cross-listed with: THEA 2311)**Film History I****3:3:0**

* Prerequisite(s): THEA 1023 or ENGL 2150

Explores the development of the feature film, both in America and abroad from 1895 to 1945. Covers the evolution of motion pictures from conception as an entertainment novelty (c. 1895) to the mass-audience, commercial art form of the 1940's. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films.

CINE 2312 (Cross-listed with: THEA 2312)**Film History II****3:3:0**

* Prerequisite(s): THEA 1023 or ENGL 2150

Explores the development of the feature film, both in America and abroad from 1940 to the Present. Emphasizes the continuing evolution of motion pictures from the height of the Studio System 1930s through to its status as one "form" of digital entertainment in 2010. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films. (Note: Some films screened may be considered controversial and carry an "R" rating.)

CINE 234R (Cross-listed with: THEA 234R)**Special Topics in Cinema Studies****3:2:2**

* Prerequisite(s) or Corequisite(s): THEA1023 or CINE2150

Focuses upon a particular genre, director, or film movement. May be repeated once for a total of 6 credits toward graduation.

Course Descriptions

CINE 312R (Cross-listed with: LANG 312R) National Cinema History

3:3:0

* Prerequisite(s): ENGL 2010 and University Advanced Standing

Covers a single national cinema tradition from the early days of film to the present. Explores representative films from a nation's cinematic chronology, considering major themes, movements, controversies, and artists. Considers social and political contexts as related to the national film output. May be repeated for a maximum of 9 credits toward graduation.

CINE 3150 (Cross-listed with: COMM 3150, ENGL 3150)

Film Theory

3:3:0

Fall

* Prerequisite(s): (CINE 2150 or ENGL 2150) and University Advanced Standing

Emphasizes film theory as cultural analysis. Relates cultural phenomena to films that reflect elements of contemporary film theory focusing on spectatorship, stars, narration, authorship, genre, and film production. Includes lecture, film screenings, and critical discussions of assigned readings. Some films screened may be considered controversial and carry an "R" rating.

CINE 416R (Cross-listed with: ENGL 416R, THEA 416R)

Special Topics in Film Studies

3:3:0

On Sufficient Demand

* Prerequisite(s): (ENGL 2150 or CINE 2150 or THEA 1023) and University Advanced Standing

Covers cinema directors, genre, theory, and social change on a rotating basis. Explains course focus, defines terminology involved, then studies evolution and/or specific texts or contexts, and considers theoretical discourse. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating.

CINE 418R Sundance Documentary Film

3:3:0

Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENGL 2150 or CINE 2150

Covers history of documentary film, studies current modes and models of documentary film, includes attending Sundance film festival documentaries. May be repeated for a maximum of 6 credits toward graduation. Some films screened may carry an "R" rating, or may not be rated but would carry an "R" rating. Course fee of \$50 for support applies.

Civil Engineering (CIVE)

CIVE 3010

Introduction to Transportation Engineering

3:3:0

Fall

* Prerequisite(s): EGDT 1040, University Advanced Standing and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

* Prerequisite(s) or Corequisite(s): ENGR 2450

Covers analysis and design of transportation systems and their components. Introduces technological, economic, and social aspects of transportation. Covers economic considerations, role of public policy, system planning, design, management, traffic flow models, intersection control, network analysis, and environmental impact.

CIVE 3130 Structural Analysis

3:3:0

Fall

* Prerequisite(s): ENGR 2140, University Advanced Standing, and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

Focuses on analysis of determinate and indeterminate structural systems. Covers flexibility and moment distribution methods. Introduces design load distribution and load guidelines.

CIVE 3140 Structural Steel Design

3:3:0

Spring

* Prerequisite(s): CIVE 3130, University Advanced Standing, and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

Focuses on design of structural steel components of a building. Covers tension members, compression members, beams, and connections using Load and Resistance Factor Design (LRFD). Includes a design component.

CIVE 3150 Reinforced Concrete Design

3:3:0

Spring

* Prerequisite(s): CIVE 3130, University Advanced Standing, and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

Focuses on design of reinforced concrete components of a structure. Covers beams, columns, slabs, and foundations according to the American Concrete Institute (ACI) 318 building code requirements. Includes a design component.

CIVE 3210 Geotechnical Engineering

3:3:0

Spring

* Prerequisite(s): ENGR 2140, University Advanced Standing, and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

Focuses on the study of soil properties, classifications, and behavior. Applies principles of mechanics to soil as an engineering material. Introduces consolidation and compaction theories, effective stresses, shear strength, and earth pressure and slope stability. Includes a design component.

CIVE 3320 Hydraulics and Hydrology

3:3:0

Spring

* Prerequisite(s): ENGR 2450, ME 3310, University Advanced Standing, and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

Focuses on concepts of hydraulics such as pipe and open channel flows. Covers weather patterns, precipitation measurement, distribution, and runoff. Introduces storm hydrograph and peak flow analysis, flood design, reservoir and channel routing. Includes a design component.

CIVE 3335 Civil Engineering Experimentation I

2:0:6

Spring

* Prerequisite(s): ME 3310, University Advanced Standing, and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

* Prerequisite(s) or Corequisite(s): CIVE 3320

Covers temperature, pressure, and flow measurement, along with calibration of thermal/fluid sensors in a lab setting. Focuses on experiments to investigate various phenomena in fluid flow, hydraulics, and hydrology. Investigates the performance of pumps. Includes a writing component.

CIVE 3610 Environmental Engineering

3:3:0

Fall

* Prerequisite(s): CHEM 1210, MATH 2250, University Advanced Standing, and (Formal Acceptance into the Civil Engineering Program or Departmental Approval)

Introduces the fundamentals of environmental engineering. Focuses on chemical, biological, and physical principles dealing with water, waste water, and solid waste management. Covers analyses of air, surface, and ground water quality. Includes a design component.

CIVE 4010 Traffic Engineering

3:3:0

Fall

* Prerequisite(s): CIVE 3010 and University Advanced Standing

Introduces elements of traffic engineering including: road use, traffic flow theories, traffic control devices, traffic data collection. Covers freeways and rural highways and principles of intersecting signalization, service level and capacity. Includes a design component.

CIVE 4020 Highway Planning and Design

3:3:0

Spring

* Prerequisite(s): CIVE 3010 and University Advanced Standing

Covers classification of highways. Focuses on the process involved in design of highways and their elements. Introduces design of highway cross sections, intersections, and interchanges. Covers design of vertical and horizontal alignment and establishment of sight distances. Includes a design component.

CIVE 4135
Civil Engineering Experimentation II
2:0:6 **Fall**
 * Prerequisite(s): CIVE 3210 and University Advanced Standing

Focuses on testing of civil engineering materials such as soil, asphalt, concrete, and metals related to geotechnical, pavement, and structural aspects of civil engineering. This is a laboratory course with a writing component.

CIVE 4210
Foundation Design
3:3:0 **Fall**
 * Prerequisite(s): CIVE 3210 and University Advanced Standing

Covers foundation classifications. Applies fundamentals of soil mechanics to analysis and design of soil structure systems. Covers shallow and deep foundations, piles and caissons, and retaining structures. Includes a design component.

CIVE 4310
Storm Water Management
3:3:0 **Spring**
 * Prerequisite(s): ME 3310 and University Advanced Standing

Applies fluid mechanics and hydrology principles to the analysis and design of storm water management facilities. Covers environmental issues related to storm water management. Includes a design component.

CIVE 4320
Open Channel Flow
3:3:0 **Fall**
 * Prerequisite(s): CIVE 3320 and University Advanced Standing

Covers analysis of open channel flow systems. Introduces natural and designed channels, steady and unsteady flows, uniform and non-uniform flows and flow transitions. Includes lectures and design projects.

CIVE 4510
Civil Engineering Seminar
1:1:0 **Fall**
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): CIVE 4810

Introduces various civil engineering careers and related industries. Emphasizes the importance of life-long learning and active participation in professional societies and communities through lectures given by practicing engineers using their own experiences. Introduces various engineering codes of ethics. Intended as a culminating seminar for graduating seniors to prepare for their engineering careers.

CIVE 4610
Water and Wastewater
3:3:0 **Spring**
 * Prerequisite(s): CIVE 3320 and University Advanced Standing

Introduces municipal water and wastewater treatment and distribution practices. Applies physical, chemical, and biological principles to design and operation of water and wastewater distribution systems.

CIVE 4810
Civil Engineering Capstone I
3:3:0 **Fall**
 * Prerequisite(s): University Advanced Standing, Formal Acceptance into Civil Engineering Program, and Department Approval

Serves as a comprehensive two-semester civil engineering design experience with practical constraints. Focuses on applying civil engineering principles and the design process along with economic analysis and project management methods to a real-world project, and present the findings to other engineers and the public. Capstone I and II must be taken in consecutive semesters.

CIVE 4820
Civil Engineering Capstone II
3:3:0 **Spring**
 * Prerequisite(s): CIVE 4810 and University Advanced Standing

Serves as a second semester of the two-semester design experience from conception to modeling or prototype. Focuses on applying civil engineering principles and the design process along with economic analysis and project management methods to a real-world project, and present the findings to other engineers and the public. Capstone I and II must be taken in consecutive semesters.

CIVE 490R
Advanced Current Topics in Civil Engineering
1 to 3:1 to 3:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing and (Formal Acceptance into the Civil Engineering Program or Department Approval)

Provides exposure to emerging topics and technologies of current interest in civil engineering. Varies each semester depending upon the state of technology. May be repeated for a maximum of 6 credits toward graduation without prior written department approval.

Criminal Justice (CJ)

CJ 1010 **SS**
Introduction to Criminal Justice
3:3:0 **Fall, Spring, Summer**

Presents the processes, institution, and administration of criminal justice in the United States. Examines the crime problem, criminal law, law enforcement, criminal prosecution, criminal defense, bail, the jury system, and sentencing among adult and juvenile offenders. Explores the correctional system; namely, probation, prisons, inmates' rights, and parole.

CJ 1300
Introduction to Corrections Process
3:3:0 **Fall, Spring, Summer**

Introduces the corrections system. Includes origin and evolution, philosophies of corrections, perspectives on sentencing, and alternatives to incarceration. Includes community corrections; probation and parole; offender rights and legal issues; adult, juvenile, and special needs offenders; corrections specialists, staff, and administration as a profession; and special challenges for the future.

CJ 1330
Criminal Law
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): CJ 1010

Provides an overview of criminal law. Covers history and terminology of the criminal justice system, the elements of specific offenses, and the role of the criminal justice profession in the fact-gathering process.

CJ 1340
Criminal Investigations
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): CJ 1390 and ENGL 1010

Introduces the fundamentals of criminal investigations. Examines the techniques commonly utilized by investigative personnel for crimes against property and persons to include case management and documentation, interacting with victims, witnesses and suspects, and crime scene analysis. May be delivered online.

CJ 1350
Introduction to Forensic Science
3:3:0 **Fall, Spring, Summer**

Studies Forensic Science and multiple forensic disciplines as they correlate with criminal investigations. Teaches the identification and importance of multiple types of physical evidence typically found at a crime scene and how that evidence is used to provide a link between the victim, suspect, and crime scene. Explains the proper techniques needed to document a crime scene and physical evidence. Provides the process of taking the evidence from the scene and the scientific analysis of the evidence, which is completed at the crime laboratory.

CJ 1390
Introduction to Policing
3:3:0 **Fall, Spring**
 * Prerequisite(s) or Corequisite(s): CJ 1010

Evaluates police organizations, administration, and duties within federal, state, and local law enforcement agencies. Includes history and philosophy of law enforcement, evaluation of administrative practices, recruitment and hiring of new personnel, patrol and criminal investigative assignments, issues confronting American law enforcement agencies, emerging concepts, professionalism, and community crime prevention.

CJ 1800
POST Module I
7:7:0 **Fall, Spring, Summer**
 * Prerequisite(s): Departmental approval required, Passing score on National Peace Officer Selection Test.

Completes all training required by Utah Peace Officer Standards and Training (POST) to become certified as a Special Function Officer. Certification may become active when hired by an agency with Peace Officer authority.

CJ 1810
POST Module II
11:11:0 **Fall, Spring, Summer**
 * Prerequisite(s): CJ 1800, Departmental Approval Required

Completes all training required by Utah Peace Officer Standards and Training (POST) to become certified as a Law Enforcement Officer. That certification may become active when hired by an agency with Peace Officer authority.

Course Descriptions

CJ 2110

Security Management and Loss Prevention

3:3:0 On Sufficient Demand

* Prerequisite(s): CJ 1010

Examines external and internal security measures, confidential personnel investigations, and interview procedures. Studies principle and major concepts in prevention, protection, loss control, and crime prevention in the commercial sector.

CJ 2330

Juvenile Justice

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CJ 1010

Provides an overview of the juvenile justice system from its origin through present-day trends and development. Examines the origin and development of the juvenile court as well as its changing social and political philosophy. Discusses the role and relationship of municipal law enforcement toward the juvenile offender. Examines closed juvenile institutions, juvenile probation, parole, and alternative placement such as group homes.

CJ 2350

Laws of Evidence

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CJ 1330

Covers principles and practice of the law of evidence. Teaches legal issues including admissibility of evidence, judicial notice, burdens of proof, hearsay, documentary evidence, evidentiary privileges and witnesses.

CJ 281R

Internship

1 to 8:0:5 to 40 On Sufficient Demand

* Prerequisite(s): Department Approval

Provides actual, on-the-job work experience on a paid basis in a criminal justice profession or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. Completers should be qualified to work at entry-level jobs in the criminal justice profession. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

CJ 290R

Law Society

1:1:0 Fall, Spring

Elective Credit for students interested in law or law-related professions. Provides a program of activity relating to current legal issues, encouraging social awareness and developing law and civic consciousness. Students arrange for guest speakers from the legal and criminal justice professions to present information concerning their professions. Teaches leadership skills by serving on committees. Pass/Fail grade issued. Criminal Justice majors and Paralegal majors may repeat this course for a total of three elective credits towards graduation. Each student must participate in the service project and fundraiser for a passing grade.

CJ 2920

Short Course Workshop

1 to 3:1 to 3:3 to 9 On Sufficient Demand

The specific title with the credit authorized for the particular offering will appear in the semester schedule and on the student transcript.

CJ 3020

Police Administration

3:3:0 Spring, Summer

* Prerequisite(s): ENGL 2010, CJ 1010 and University Advanced Standing

Discusses the issues facing contemporary law enforcement administrators. Focuses on the complexities associated with law enforcement organization leadership and strategic planning, training, and stress management; evaluation, promotion, and discipline; legal issues and police department liability; budgeting; politics; and media relations.

CJ 3040

Community Policing

3:3:0 Fall

* Prerequisite(s): ENGL 2010 or ENGL 2020 (recommended), CJ 1010, and University Advanced Standing

Presents the fundamentals of the community-oriented policing philosophy. Includes the comparison of traditional and community policing philosophies; law enforcement and community relationships. Analyzes the importance of political and public support and involvement; attitudinal changes involving the roles of police management, supervisors, and line personnel; creation of partnership with community organizations and police problem-solving methodologies.

CJ 3060

Corrections in the Community

3:3:0 Fall

* Prerequisite(s): CJ 1300 and University Advanced Standing

Studies the Criminal Justice Community Corrections component. Presents historical origin, development, and current practices in probation, parole, the halfway house, work and educational release, as well as furlough programs. Requires the design of an ideal corrections facility and a pre-sentence investigation report and recommendation.

CJ 3100

Criminal Profiling

3:3:0 Fall

* Prerequisite(s): ENGL 2020, CJ 1010, and University Advanced Standing

Introduces process of reviewing and assessing the behavioral facts of a violent criminal act from a law enforcement and/or investigative perspective.

CJ 3140

Corrections Law

3:3:0 Spring

* Prerequisite(s): CJ 1300 and University Advanced Standing

Teaches the law as it pertains to the corrections field. Examines civil liability and pertinent constitutional amendments as they relate to corrections covering the areas of probation, incarceration, and parole.

CJ 3270

Criminology

3:3:0 Fall, Spring

* Prerequisite(s): CJ 1010 and University Advanced Standing

Introduces the field of criminology, providing an overview of the issues involved in defining, measuring, and explaining crime. Examines the nature, extent, and general characteristics of criminal behavior and the potential causes of criminal offenses and offenders. Reviews early and contemporary theories which attempt to explain criminal behavior from a sociological, psychological, and biological perspective; the effectiveness of theories in explaining crime; theory integration and application of theory to selected issues as they relate to the modern world.

CJ 3300

Victimology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CJ 1010 and University Advanced Standing

Presents historic treatment and emerging roles of the crime victim in the criminal justice process. Investigates problems and dilemmas faced by crime victims and victimization risk factors. Studies systemic and societal creation of victims, relationships between victims and offenders, crime victim compensation, and reparations.

CJ 3310

White Collar Crime

3:3:0 On Sufficient Demand

* Prerequisite(s): CJ 3270 and University Advanced Standing

Discusses the implications of white-collar crime for criminal justice professionals and researchers. Examines various forms of white-collar crime using case studies and estimates the extent as well as the costs of these crimes. Focuses on victim and offender profiles and legal issues, including questions of corporate liability. Examines theoretical explanations for white-collar crime committed by individual offenders and corporations.

CJ 3320

Crime and Gender

3:3:0 On Sufficient Demand

* Prerequisite(s): CJ 1010, ENGL 2020, and University Advanced Standing

Involves an in-depth approach to the study of women in the criminal justice system from both a theoretical and practical perspective. Covers three main areas: 1) women as offenders; 2) women as victims; and 3) women as criminal justice practitioners.

CJ 3330

Financial Crimes Investigations

3:3:0 Fall, Spring

* Prerequisite(s): CJ 1340 or ACC 2010 and University Advanced Standing

Examines the complex world of financial crimes, money laundering, and the national and international standards for financial institutional compliance. Course fee of \$100 for materials applies.

CJ 3340
Terrorism--Radical Fundamentalism and Terrorism Financing
3:3:0 On Sufficient Demand
 * Prerequisite(s): University Advanced Standing and CJ 1010 or ACC 2010.

Explores the radical fundamentalist philosophy used to justify the war of terror against the west and how it is financed.

CJ 3360
Prisons Contemporary Issues and Dilemmas
3:3:0 Spring
 * Prerequisite(s): CJ 1010, ENGL 2010, and University Advanced Standing

Studies the history of the American prison system, targeting current issues and trends. Explores options for resolving current issues and attempts to understand and diagnose future trends and issues.

CJ 3400
Drugs and Crime
3:3:0 Fall, Spring
 * Prerequisite(s): CJ 1010, ENGL 2010, and University Advanced Standing

Presents historical, economic, social, and political roles of legal and illegal drugs. Explains the drug contribution to crime and the impact that drugs have on the criminal justice system. Compares drug production and distribution systems. Illustrates efforts to combat the drug epidemic including decriminalization, prevention, and treatment.

CJ 3600 (Cross-listed with: ESMG 3600)
Psychology of Emergency Services
3:3:0 On Sufficient Demand
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): ESMG 310G

Examines the general psychological aspects of police, fire, and emergency medical services responders including dimensions of personality, family, organizational, cultural and diversity issues. Examines models of emergency and crisis decision making. Analyzes stress, anxiety, and trauma theories and clinical issues and examines current interventions being used for related disorders and building resilience.

CJ 4060
Special Problems in Criminal Justice
3:3:0 Fall, Spring
 * Prerequisite(s): CJ 1010 and University Advanced Standing

Examines selected current issues and problems in criminal justice. Researches external factors related to the professions of police, courts, and corrections. Demonstrates functions of the criminal justice system through realistic situations and events.

CJ 4160
Constitutional Criminal Rights
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): CJ 1330, ENGL 2010, and University Advanced Standing

Studies decisions in leading U.S. Supreme Court criminal cases. Presents an overview of criminal procedure relating to constitutional amendment laws with a criminal justice emphasis. Discusses leading cases concerning constitutional rights and responsibilities.

CJ 4200
Ethical Issues in Criminal Justice
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): CJ 1010 and University Advanced Standing

Presents major ethical problems within the criminal justice system. Studies differences between moral decay and the ideal justice system. Uses an issue-based approach to solve individual, group and departmental ethical dilemmas.

CJ 4250
Criminal Justice Career Strategies
2:2:0 Fall, Spring
 * Prerequisite(s): University Advanced Standing

Emphasizes the development of effective techniques for successfully locating, applying for and securing employment as well as advancing in a Criminal Justice related career path. Includes industry and job research, demonstration, role play, and application exercises. Should be taken during second semester junior year. Provides preparation for coop/internship experience.

CJ 445G (Cross-listed with: ESMG 445G)
Human Factors in Emergency Management
3:3:0 On Sufficient Demand
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020

Introduces students to an emergency response approach to understanding hazards and disasters grounded in social vulnerability analysis. Examines historical, geographical, social, and cultural factors and conditions that put people differentially at risk before, during, and after disasters. Utilizes a multi-disciplinary approach. Focuses on global, national, regional, and local patterns of development. Explores how vulnerable social groups are affected by and cope with hazardous conditions and events, and strategies for community-based mitigation engaging those most at risk.

CJ 470G
Comparative Criminal Justice Systems
3:3:0 Fall, Spring
 * Prerequisite(s): CJ 2350, ENGL 2020, and University Advanced Standing

Examines the influences of the history, religion, ethnicity, traditions on the political and social cultures between and among six model nations of obvious historical interest to the USA. Examines the respective similar influences and distinctions between other countries and compares them with the political practices and legal systems of the USA as viewed from the international and multicultural vantage point.

CJ 475R
Current Topics in Criminal Justice
3:3:0 On Sufficient Demand
 * Prerequisite(s): CJ 1010, University Advanced Standing, and Instructor Approval

Presents selected topics in Criminal Justice, Law Enforcement, and/or National Security and will vary each semester. Requires a special project related to the area of study. May be repeated with different topic areas for a maximum of 9 credits toward graduation.

CJ 481R
Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
 * Prerequisite(s): University Advanced Standing

Provides actual, on-the-job work experience on a paying or non-paying (volunteer) basis in a criminal justice profession or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. Completers should be qualified to work in the Criminal Justice profession. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

CJ 487R
Criminal Justice Field Experience
1 to 6:1 to 5:3 to 15 On Sufficient Demand
 * Prerequisite(s): Junior or Senior status and University Advanced Standing

Provides students access to law enforcement agencies, prisons, detention centers, courts and institutions dealing with criminals and delinquents. Includes 2-3 weeks of intense classroom instruction, interviews, and lectures by practitioners in the field and several on-site visits of varying duration. Course may be repeated five times for a total of 6 hours of credit.

CJ 4880
Qualitative Research Methods in Criminal Justice
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): University Advanced Standing

Explores the methods of research used by criminal justice educators and practitioners. Introduces the application of basic research practices to law enforcement and corrections problems. Includes the use of American Psychological Association (APA) style.

CJ 491R
Directed Reading and Special Projects
1 to 3:0 to 3:0 to 9 On Sufficient Demand
 * Prerequisite(s): Junior or Senior status and University Advanced Standing

Offers independent study as directed in reading, individual projects, etc., at the discretion and approval of the department chair. May be repeated for a maximum of 9 credits.

CJ 4990
Criminal Justice Capstone Seminar
3:3:0 Fall, Spring
 * Prerequisite(s): CJ 4880 and University Advanced Standing

Applies qualitative, quantitative, and/or mixed research methods to selected issues and dilemmas in criminal justice. Requires the student to develop and present an undergraduate research project both orally and in writing.

CJ 6200
Advanced Topics in Criminal Justice
3:3:0
 * Prerequisite(s): Acceptance into Master's of Public Services program.

Evaluates contemporary issues in criminal justice, including current and historical concepts of criminal justice, interrelationships among different components of the system, and the role and function of the justice system in society. Develops philosophies of punishment, contemporary policing issues, courtroom decision making, and modern trends in corrections.

Course Descriptions

CJ 6210

Information-based Decision Making for Criminal Justice Administrators 3:3:0

* Prerequisite(s): Acceptance into Master's of Public Services program.

Describes contemporary criminal justice models and how data and information are critical to their success (Intelligence-led Policing, CompStat, Problem Oriented Policing, Community Policing, etc.). Builds crime analysis, crime maps, hot spots, intelligence models, and other data analysis from an administrative perspective in order to compile the tools, resources, and practices used around the world to assist in data-based decision making.

CJ 6220

Contemporary Issues In Criminal Justice 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Evaluates developments and changes in the practice of criminal justice brought about by current issues such as terrorism, rapid technological change, police misconduct, active shooter response, police, and the media. Formulates effective policies and procedures using strategic planning to manage organizational change with the use of current management strategies and philosophies.

CJ 6230

Criminal Justice Policy 3:3:0

* Prerequisite(s): Acceptance into Master's of Public Services program.

Evaluates a conceptual approach to the creation, implementation, and evaluation of criminal justice policies. Constructs a framework for planning and formulating policy context now and in the future. Summarizes court decisions instrumental in criminal justice policies for police, courts, corrections, and juvenile justice.

Classical Studies (CLST)

CLST 290R

Themes in Classical Civilizations 3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 1010

Explores topics in Classical thought, literature, art, history and philosophy at an introductory level. Emphasizes understanding literature, history and archeological topics through translated primary and secondary sources. Focuses on the basic interpretive skills necessary to relate historical, cultural, and sociological data to classical societies. May be repeated for 6 credits toward graduation.

CLST 490R

Special Topics in Classical Civilizations 3:3:0 On Sufficient Demand

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Analyzes literary, historical, archeological, religious and cultural texts and art work from Classical societies. Emphasizes understanding of the social, cultural and political forces which operate on a culture's writers, artists and major contributors. May be repeated with different topics for 6 credits toward graduation.

Construction Management (CMGT)

CMGT 1010

Introduction to Construction Management 3:3:0 Fall, Spring

Presents an overview of the practice of construction management including heavy civil, commercial, and residential construction. Examines the 5 M's of Construction Management-Money, Machines, Materials, Manpower and Marketing. Introduces construction documents including 2D and 3D building information models (BIM). Utilizes guest lecturers, and field trips in addition to traditional classroom activities.

CMGT 1020

Construction Materials and Methods I 3:2:2 Fall, Spring

* Prerequisite(s): MAT 0950 or higher or appropriate test scores

Provides a basic knowledge of the materials and methods used in heavy civil, commercial, and residential construction projects. Includes lectures, site visits and laboratory work. Lab access fee of \$35 for computers applies.

CMGT 1150

Construction Safety 2:1:2 Fall, Spring, Summer

Introduces OSHA safety practices and its role in the construction industry. Reviews related safety theories, procedures and practices used in the construction industry. Software fee of \$5 applies. Lab access fee of \$35 for computers applies.

CMGT 1190

Concrete and Framing Lab 3:0:9 Fall

Offers learning experience in concrete and framing applied construction methods. Course Lab Supply fee of \$10 for materials applies.

CMGT 1220

Finishing Lab 3:0:9 Spring

Offers lab experience in finishing methods and techniques. Course Lab Supply fee of \$10 for materials applies.

CMGT 2010

Construction Materials and Methods II 3:2:2 Fall, Spring

* Prerequisite(s): MAT 0950 (or higher)

Provides additional basic knowledge of the materials and methods used in heavy civil, commercial, and residential construction projects. Includes lectures, site visits and laboratory work. Software fee of \$5 applies. Lab access fee of \$35 for computers applies.

CMGT 2025

Heavy Civil Plans and Specifications 3:3:0 On Sufficient Demand

* Prerequisite(s): CMGT 1010, CMGT 1020

Designed for students interested in heavy/civil construction and design. Studies plans, standards and specifications for infrastructure construction. Emphasizes roadway systems, highway and bridge construction utilized in the heavy civil construction industry. Utilizes current project plans. May include site visits and guest lecturers as appropriate.

CMGT 281R

Internship 1 to 6:0:5 to 30 Fall, Spring, Summer

* Prerequisite(s): Department approval

For Construction Management majors. Provides on-the-job work experience in the student's major. Work experience is approved and coordinated with the Internship Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated for a maximum of 6 credits toward graduation. May be graded Credit/No Credit.

CMGT 299R

Skills USA 1:1:0

* Prerequisite(s): Requires adviser or department approval.

Supports and facilitates the goals and objectives of Skills USA pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated for a maximum of 2 credits toward graduation.

CMGT 3000

Principles of Construction Scheduling 3:2:2 Fall, Spring

* Prerequisite(s): CMGT 1010, CMGT 2010, IM 2010, and University Advanced Standing

Provides fundamental skills required to plan and schedule civil and commercial construction projects. Familiarizes students with computer scheduling software packages. Covers the efficient assignment of available resources to complete projects on time and within budget. Software fee of \$5 applies. Lab access fee of \$35 for computers applies.

CMGT 3010

Construction Materials Testing 3:2:3 Fall, Spring

* Prerequisite(s): CMGT 1020 and (MAT 1010 or higher or EGDT 1600) and University Advanced Standing

Investigates the general physical properties of construction materials and their common quality control/assurance tests conducted in the construction industry. Analyzes results of these tests and how they affect construction design. Emphasis is placed on the performance of field and lab testing procedures used in heavy civil construction. Course Lab Supplies fee of \$17 for materials applies.

CMGT 3020
Building Envelopes and Mechanical Systems
3:2:2 **Fall, Spring**
 * Prerequisite(s): CMGT 1010, IM 1010 or computer proficiency exam, and University Advanced Standing

Covers mechanical, electrical and plumbing (MEP) principles. Provides problem solving experience in the analysis and design of building envelopes and MEP systems used in construction applications. Software fee of \$5 applies. Course fee of \$10 for materials, transportation applies. Lab access fee of \$35 for computers applies.

CMGT 3030
Principles of Construction Estimating
3:2:3 **Fall, Spring**
 * Prerequisite(s): CMGT 1020, CMGT 2010, MAT 1010 or higher or EGDT 1600, and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): IM 2010 or IM 2360

Covers the preparation of detailed cost estimates based on contract models and documents. Includes the use of software for performing reliable quantity take-offs. Covers labor, material, and equipment pricing. Includes lectures and laboratory work. Software fee of \$5 applies. Lab access fee of \$35 for computers applies.

CMGT 3040
Construction Job Site Management
3:2:2 **Fall, Spring**
 * Prerequisite(s): CMGT 2010 and University Advanced Standing

Covers the role and duties of job site managers of heavy civil and commercial construction projects. Includes documentation, time and cost control, jobsite layout and control, labor relations, conflict resolution, OSHA safety practices. Emphasizes the design and implementation of project safety plans. Focuses on project quality, productivity, cost control and safety management. Lab access fee of \$35 for computers applies.

CMGT 3050
Construction Equipment, Planning and Logistics
3:2:2 **Spring**
 * Prerequisite(s): CMGT 3000, CMGT 3030, ACC 3000 (recommended) or (ACC 2010 and ACC 2020), and University Advanced Standing

Teaches construction equipment, productivity, logistics and associated costs. Emphasizes equipment used in heavy civil construction. Lab access fee of \$35 for computers applies.

CMGT 3060
Applied Statics and Strength of Materials
3:2:3 **Fall, Spring**
 * Prerequisite(s): (MATH 1060 or EGDT 1610) and University Advanced Standing

Teaches basic principles of static, coplanar force systems, coplanar-nonconcurrent force systems, stresses and strains, properties of materials, Poisson's ratio, shear and bending diagrams, and beam design. Explores materials used in construction projects.

CMGT 3080
Construction Financial Management
3:3:0 **Fall, Spring**
 * Prerequisite(s): ACC 3000 (Recommended) or (ACC 2010 and ACC 2020), and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): CMGT 3030

Builds on basic principles of accounting and finance as utilized in the construction industry. Emphasizes labor burden, financial needs and decision tools, construction accounting systems, cash flow, profit and tax projections on construction projects. Lab access fee of \$35 for computers applies.

CMGT 3160
Building Information Modeling
3:3:0 **Fall, Spring**
 * Prerequisite(s): EGDT 1020, IM 2010 or equivalent, and University Advanced Standing

Introduces 3D architectural models for cost estimating, clash detection, collaboration between multiple disciplines and documenting and quantifying project data. Covers model design theory, parametric modeling methods, generation of residential and commercial construction plans and details sufficient for cost estimating, building components and systems, and manipulation of model information. Lab access fee of \$35 for computers applies.

CMGT 399R
Student Professional Organization
.5: .5:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing

Provides students the opportunity to participate in a professional organization in the construction field. Utilizes guest speakers, attendance at professional meetings, and competitions. Should be taken once each year during BS program for a maximum of two (2) credits toward graduation.

CMGT 4010
Construction Contracts
3:3:0 **Fall, Spring**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020), CMGT 1010, Junior Standing, and University Advanced Standing

Prepares learners to be able to interpret and utilize appropriate construction documents such as contracts, waivers, change orders, employee documents and specifications, etc. Addresses the dispute process in the United States and the contractual relationship associated with construction project delivery methods.

CMGT 4020
Construction Project Management
3:3:0 **Spring**
 * Prerequisite(s): CMGT 3000, University Advanced Standing

Exposes students to best management practices in the construction industry. Utilizes construction planning and problem solving tools on real world construction issues. Identifies and quantifies waste in the industry and determines appropriate methods to eliminate such. Discusses lean philosophy and its impact on construction projects and the industry. Exposes students to the latest research on the topic of lean construction.

CMGT 405G
Global Sustainability and the Built Environment
3:2:2 **Fall, Spring**
 * Prerequisite(s): Minimum junior status and University Advanced Standing

For construction management majors and individuals interested in sustainable construction. Focuses on sustainability issues from a global perspective. Discusses global sustainability and focuses specifically on the LEED green building rating system. May include guest lectures, site visits, and group assignments. Lab access fee of \$35 for computers applies.

CMGT 4500
Senior Capstone Project
3:1:4 **Fall**
 * Prerequisite(s): Junior Standing, Department Approval, and University Advanced Standing

Designed for senior Construction Management and related majors. Involves execution of a construction project case simulation covering all aspects of construction management for either heavy civil, commercial or residential projects. Engages students with local representatives from the construction industry. Requires a written project report and oral presentations. Lab access fee of \$35 for computers applies.

CMGT 459R
Current Topics in Construction
1 to 3:0 to 3:0 to 9 **Fall**
 * Prerequisite(s): Junior Standing, Department Approval, and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in Construction. Varies each semester depending upon the state of technology. May apply a maximum of 6 hours toward graduation.

CMGT 481R
Internship
1 to 3:0:5 to 15 **Fall, Spring, Summer**
 * Prerequisite(s): Approval of Construction Technologies Department Chair and University Advanced Standing

Provides opportunities to apply classroom theory while students work as employees in a job that relates to their careers. Students communicate regularly with a School of Technology and Computing coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May apply 3 credits toward a Bachelor of Science Degree in Construction Management. May be graded credit/no credit.

CMGT 489R
Undergraduate Research in Construction
1 to 3:0:5 to 15 **On Sufficient Demand**
 * Prerequisite(s): Department approval and University Advanced Standing

Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Creates a significant intellectual or creative product that is characteristic of the Construction discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

Course Descriptions

CMGT 497R

Independent Study

1 to 3:0:3 to 9 On Sufficient Demand

* Prerequisite(s): Approval of Construction Technologies Department Chair and University Advanced Standing

Offers independent study as directed in reading or individual projects at the discretion and approval of the department chair. May be repeated for a maximum of 6 credits toward graduation.

Constitutional Studies (CNST)

CNST 2600

Comparative Constitutionalism

3:3:0 On Sufficient Demand

* Prerequisite(s): POLS 1000 or POLS 1100

Compares and contrasts the political, social and economic aspects of the origins, drafting, and development of constitutions across the globe.

CNST 3870

Constitutional History to Plessy 1896

3:3:0 Fall Even Years

* Prerequisite(s): University Advanced Standing

Explores, in a critical and historical framework, US Constitutional history to Plessy (1896). Examines the origins and general principles of Constitutional thought, including the Colonial, Confederate, Early Republic, and Civil War periods of early US history. Examines the various Constitutional issues relating to judicial review, national supremacy, slavery, secession, the Civil War, and laissez-faire governmental policies.

CNST 3880

Constitutional History Since Plessy 1896

3:3:0 Spring Odd Years

* Prerequisite(s): University Advanced Standing

Explores, in a critical and historical framework, US Constitutional history since Plessy (1896). Examines the development of the US Constitution from the late nineteenth century to the present day, with special attention being given to the progressive era, the New Deal, liberal constitutionalism, and the US Supreme Court's interpretations of civil rights and civil liberties.

CNST 4720

Foundations of American Constitutionalism

3:3:0 On Sufficient Demand

* Prerequisite(s): (POLS 1000 or POLS 1100 or instructor approval) and University Advanced Standing

Examines the political and constitutional foundations of the American Constitution, from the English Charter of Liberties in 1100 AD to the United States Bill Rights of 1791. Employs a comparative analysis of early Anglo-American constitutional thought, with special attention being given to the writings of prominent 17th century and 18th century constitutional theorists (e.g., Coke, Bacon, Burke, Penn, Dickinson, Mason, Adams, Madison, Marshall).

CNST 4730

Framing of the US Constitution

3:3:0 Fall Odd Years

* Prerequisite(s): CNST 4720 and University Advanced Standing

Examines the political and constitutional arguments of the Framers of the Federal Constitutional Convention. Discusses the strengths and weaknesses of the Constitution and the alternative language and plans presented at the Convention. Examines the ratification of the Constitution, focusing on the Anti-Federalists' critique and the Federalists' defense of that historic document. Employs a critical analysis of the political factors affecting the drafting and ratifying of the Constitution.

CNST 4790

US Constitution

3:3:0 On Sufficient Demand

* Prerequisite(s): (POLS 1100 or POLS 1000) and University Advanced Standing

Examines the United States Constitution as the political blueprint of American national government. Explores the basic constitutional powers and structures of the federal government and the prominent political and constitutional conflicts among its executive, legislative, and judicial branches. Addresses such key elements of constitutional design as limited and empowered government, enumerated and implied powers, separation of powers, checks and balances, federalism, and the Bill of Rights. Employs a critical analysis of modern constitutional politics.

CNST 4795

Civil Rights and Civil Liberties

3:3:0 On Sufficient Demand

* Prerequisite(s): CNST 4790 and University Advanced Standing

Examines, with a critical lens, the political and constitutional aspects of the origins, drafting, and development of The Bill of Rights, the Modern Civil Rights Movements, and the Ninth, Tenth, Thirteenth, Fourteenth, Fifteenth, and Nineteenth Amendments to the Constitution.

CNST 490R

Issues and Topics in Constitutional Studies

3:3:0 On Sufficient Demand

* Prerequisite(s): (POLS 1000 or POLS 1100) and University Advanced Standing

Surveys a specific topic in constitutional studies. Topic varies each semester. With the approval of the department chair or coordinator, students may repeat the course for a maximum of 9 credits toward graduation.

CNST 491R

Independent Study

1 to 4:1 to 4:0 On Sufficient Demand

* Prerequisite(s): (POLS 1000 or POLS 1100), Instructor Approval, and University Advanced Standing

Provides independent study for students unable to secure a desired course subject matter within regular curriculum offerings. Requires student and instructor design and complete readings and other projects at the upper division level, with the approval of the department chair or coordinator. May be repeated for a maximum of 8 credits toward graduation.

Communication (COMM)

COMM 1000

Exploring the Communication Major

3:3:0 On Sufficient Demand

For students majoring in Communication. Provides information regarding specific degree emphases as well as career choices. Reviews and assesses grammar and writing skills that are specific to the communication field. Teaches basic research components.

COMM 1020

Public Speaking

3:3:0 Fall, Spring, Summer

Provides an introduction to basic concepts, theories, principles of oral communication as applied to a variety of speaking situations. Develops competence in oral communication through performance, the development of critical thinking skills, arrangement of ideas, and use of evidence and reasoning to support claims. Explains how culture influences what is considered effective public speaking. May be delivered online. Canvas Course Mats \$78/McGraw applies

COMM 1050

Introduction to Speech Communication

3:3:0 Fall, Spring, Summer

Surveys the questions, methods, and current status of knowledge in the discipline of speech communication. Explores communication theory and practice across a variety of context and forms, including verbal, non-verbal, interpersonal, group, organization, and mass communication.

COMM 1130

Writing for the Mass Media

3:3:0 Fall, Spring, Summer

Teaches Associated Press-style writing for the mass media. Focuses on organizing and presenting information to a mass audience. Emphasizes news writing.

COMM 120R

Communication Forum

1:1:0 On Sufficient Demand

Facilitates students in engaging contemporary communication issues. Provides enriched learning situations in which students may interact with noted guest scholars. Includes discussions, lectures, symposia, field trips, outreach projects and other activities oriented to immerse students in the study of communication. Meets with the Communication Club. Grading is credit/no credit. May be repeated for a total of four credits.

COMM 128R

Forensics

3:3:0 On Sufficient Demand

* Prerequisite(s): COMM 1020

Designed for students interested in inter-collegiate speech and theatre competition. Studies all aspects of intercollegiate speech competition and prepares the student for specialization in areas of the student's choice. Includes debate, public speaking, limited preparation speaking, oral interpretation, and reader's theatre. Members of the class will compete in forensics tournaments. Includes lecture, demonstration, practice speeches, and tournament competition. May be repeated for a maximum of 12 credits toward graduation.

COMM 1500 **HH**
Introduction to Mass Communication
3:3:0 **Fall, Spring, Summer**

Provides a survey of the structure, operation, diversity, and effects of mass media. Discusses the different forms of media and the impact of media. Explores opportunities in communication work. Also covers consumer impacts.

COMM 1610
Reporting for the Mass Media
3:3:0 **Fall, Spring**

* Prerequisite(s): COMM 1130

Provides an opportunity to learn about a career in journalism. Focuses on gathering and organizing information in the field. Includes interviewing, covering a beat, investigative reporting, reviews, and opinions. Simulates a journalist's working experience. Offers experience covering current events in the field.

COMM 202R
Communication Field Experience
1 to 3:0:3 to 9 **Fall, Spring**

* Prerequisite(s): Instructor Approval

Explores a wide variety of topics in public relations, mass media, journalism and speech communication. May be repeated for a maximum of 12 credits toward graduation.

COMM 207G
Introduction to Gender and Communication
3:3:0 **On Sufficient Demand**

Introduces students to the study of gender differences and similarities in communication. Provides practical understanding and skills useful for more effective communication within and across gender boundaries. Addresses gender and communication issues across multiple cultural contexts, including issues beyond mainstream groups and United States culture.

COMM 2100
The News Editing Process
3:3:0 **On Sufficient Demand**

* Prerequisite(s): COMM 1130

Introduces news judgment, content, and forms. Prepares and edits copy for publication, including rewriting faulty stories, copy editing, proof-reading, headlines, newspaper design, and picture editing.

COMM 2110 (Cross-listed with: MGMT 2110) SS
Interpersonal Communication
3:3:0 **Fall, Spring, Summer**

Examines the role of communication in interpersonal relationships. Includes the history of interpersonal communication research and theory, and applications such as negotiation, conflict management, listening, and assertiveness. Canvas Course Mats \$78/McGraw applies

COMM 2115
Introduction to Health Communication
3:3:0 **On Sufficient Demand**

Provides an introduction to and a foundation for the important area of health communication. Covers persuasion theories as applied to health communication research. Examines the history of medicine and healthcare. Describes patient to caregiver interaction.

COMM 2120
Small Group Communication and Decision Making
3:3:0 **Fall, Spring, Summer**

Provides an overview of the communication processes involved in small group interactions. Covers theories of leadership, decision-making, and problem-solving through group activities.

COMM 2130
Television News Writing and Reporting
3:1:6 **On Sufficient Demand**

* Prerequisite(s): (COMM 1130 or COMM 1610) and DGM 2110

Teaches advanced techniques in news writing and reporting for applied, multimedia contexts. Produces news stories for print, radio, television, and internet. Covers news selection, interviewing techniques, field reporting, news videography, and script-writing for the various media. Produces voice overs (VO), voice over to sound on tape (VO-SOT), and news packages for student-produced television newscast. Requires students to supply news packages for student-produced newscasts. Course fee of \$10 for computers applies. Lab access fee of \$30 for equipment, software applies.

COMM 217G (Cross-listed with: CINE 217G, ENGL 217G) HH
Race Class and Gender in U S Cinema GI
3:3:0 **On Sufficient Demand**

* Prerequisite(s): ENGL 1010

Raises cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of the representation of race, class, and gender in American cinema. Focuses on both Hollywood and independent minority filmmakers. Some films screened may carry an "R" rating.

COMM 2250
Principles of Advertising
3:3:0 **On Sufficient Demand**

* Prerequisite(s): COMM 1500

Introduces the basics of advertising research, strategy, creative execution, and media strategy.

COMM 2270
Argumentation
3:3:0 **Fall, Spring**

Examines the study of argument. Emphasizes reasoning, evidence, analysis, evaluation, audience analysis, and practice.

COMM 2300
Public Relations
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): COMM 1500; ENGL 1010 and either COMM 1500 or COMM 1050

Introduces the basics of writing for the media, designing corporate literature and working with the public in behalf of a business or individual.

COMM 2400
Organizational Communication
3:3:0 **Fall, Spring, Summer**

Teaches how communication processes affect organizations. Applies theory to organizational analysis. Utilizes dialogue and network analysis to improve organizational values and performance. May be delivered online.

COMM 2510
Visual Strategies for Communication Majors
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): COMM 2300

Teaches strategies to visually align public relation campaigns with an organization's brand. Provides understanding of visual strategies involving social and new media. Creates a literacy of visual communication tools and strategies for articulating a vision to creative staff and requesting photography and images for the mass media.

COMM 2560 (Cross-listed with: DGM 2460)
Radio Production
3:3:0 **Fall**

Teaches the history of radio, and the structure of typical radio stations, from management to programming, sales, production, and promotion. Covers methods of producing radio promos, radio shows, commercials and news segments, as well as features and interviews. Uses Digital Audio Workstations to produce several radio segments of the student's choosing. Includes lectures, demonstrations, and guest lecturers from radio stations in the community. Software fee of \$20 applies. Lab access fee of \$35 for computers applies.

COMM 2790
Magazine Writing
3:3:0 **Fall**

* Prerequisite(s): COMM 1610

For students interested in pursuing careers in journalism. Focuses on non-fiction writing for magazine consumption. Teaches how to research and write long, investigative feature articles. Includes analysis of the early magazine industry, contemporary issues in the magazine industry, and in-depth reporting on special topics, such as science, politics, culture and society, education, environment, and international affairs.

COMM 281R
Internship
1 to 8:0:5 to 40 **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

Provides an opportunity for students to get college credit by working in communication-related fields. Applies academic concepts to actual work experiences. Requires instructor approval and final report. May be graded credit/No credit. May be repeated for a total of 8 credit hours toward graduation.

COMM 290A
Independent Study
1:1:0 **On Sufficient Demand**

* Prerequisite(s): COMM 1610, Approval of instructor and department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

Course Descriptions

COMM 290B

Independent Study

2:2:0 On Sufficient Demand

* Prerequisite(s): COMM 1610, Approval of instructor and department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290C

Independent Study

3:3:0 On Sufficient Demand

* Prerequisite(s): Approval of instructor and department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 290D

Independent Study

4:4:0 On Sufficient Demand

* Prerequisite(s): COMM 1610, Approval of instructor and department chair.

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other options as approved by the instructor.

COMM 3000 (Cross-listed with: PHIL 3010)

Media Ethics

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Covers ethical issues in media communication. Includes discussions of ethnicity, gender, nationalism, and conflict. Demands development of moral agency. Examines tensions between individual freedoms and social responsibilities. Addresses ethical questions in the context of current struggles within and over corporate and public media.

COMM 3010

History of Mass Communication

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Covers the historical development of the means, conventions, and institutions of communication. Focuses particularly on the rise of media in the United States.

COMM 3020

Communication Research Methods

3:3:0 Fall, Spring

* Prerequisite(s): [(COMM 1020, COMM 1050, and STAT 1040 or equivalent) or (COMM 1130, COMM 1500, and STAT 1040 or STAT 1045 or equivalent)] and University Advanced Standing

Covers basic communication research methods in both quantitative and qualitative research. Focuses on the research process and discusses the methodological tools for understanding and conducting basic communication research. Includes examples based on research and promotes awareness of the importance of quantitative and qualitative research perspectives as well as of data collection and analytical procedures. Canvas Course Mats \$66/McGraw applies

COMM 3030

Mass Communication and Society

3:3:0 On Sufficient Demand

* Prerequisite(s): (COMM 1500 or ENGL 2010) and University Advanced Standing

Examines relationships between mass communication and society from a variety of theoretical perspectives and social concerns.

COMM 3050

Theories of Communication and Culture

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010 and [(COMM 1020 and COMM 1050) or (COMM 1130 and COMM 1500)] with a 'C-' or better and University Advanced Standing..

Covers main theoretical approaches to communication and culture. Includes transmission, ritual, symbolic interactionist, structuralist, post-structuralist, postmodern, and critical theories. Canvas Course Mats \$66/McGraw applies

COMM 3100

Propaganda and Persuasion

3:3:0 Fall

* Prerequisite(s): COMM 1500 with a C- or higher required and University Advanced Standing; COMM 1000, COMM 3020, and COMM 3050 recommended

Examines various propaganda techniques inherent in advertising, public relations, and the mainstream news media in the United States. Prepares students to apply critical thinking skills to determine if or when propaganda techniques are used in order to understand the role of propaganda in their own mediated environment.

COMM 3110 (Cross-listed with: ENGL 3110,

THEA 3110)

Non Fiction Cinema History

3:2:3 On Sufficient Demand

* Prerequisite(s): ENGL 2150 and University Advanced Standing

Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANOOK OF THE NORTH to the current trend of reality television and popular documentaries. Some films screened may carry an "R" rating.

COMM 3115

Communicating in Environments

3:3:0 Summer

* Prerequisite(s): University Advanced Standing

Explores how people use communication to navigate both social and natural environments. Investigates social and small group communication; specifically, how small groups are created, what role(s) they play in life. Considers how our culture communicates about the natural world; how do we define nature, who communicates for nature, and how does nature behave as a stakeholder in environmental conflicts. Occurs at the Capitol Reef Field Station, which allows for an experiential application of the theories of small-group and environmental communication. Focuses on the experience and application of the literature of the discipline to create an integrated-learning opportunity.

COMM 3120

Fundamentals of New and Social Media

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 2010, COMM 1500, and University Advanced Standing

Examines contemporary issues related to social media, including the impact of new media on journalism and society, social media effects, and new media campaigns. Investigates the relationship between government policy and social media in relation to issues such as the digital divide, net neutrality, and the use of social media to sustain protests and revolutions. Software fee of \$20 applies.

COMM 3130

The Culture of Nature and Technology

3:3:0 On Sufficient Demand

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Analyzes the cultural construction of nature and technology from historical, interpretive, and critical perspectives. Deconstructs the nature/culture dichotomy. Critiques the neutrality of technology thesis. Explores the political and social implications of representations of, and relations to, nature and technology.

COMM 3140

Social Media Content Creation

3:3:0 Fall, Spring

* Prerequisite(s): COMM 3120 and University Advanced Standing

Develops multimedia content creation skills for a myriad of social media platforms. Focuses both on the theoretical and practical foundation for persuasive/informative social media campaigns from a public relations, journalism, and speech communication perspective. Covers multimedia content creation for platforms such as Facebook, Twitter, Instagram, and Pinterest, among others. Software fee of \$20 applies.

COMM 314G (Cross-listed with: ENGL 314G,

THEA 314G)

Global Cinema History

3:2:3 On Sufficient Demand

* Prerequisite(s): (ENGL 2150 or THEA 1023) and University Advanced Standing

Studies the evolution of global film styles, movements, stars, and genres with a focus on international cinema chronologies outside the United States. Some films screened may be considered controversial and carry an "R" rating.

COMM 3150 (Cross-listed with: CINE 3150, ENGL 3150)
Film Theory
3:3:0 On Sufficient Demand
 * Prerequisite(s): (CINE 2150 or ENGL 2150) and University Advanced Standing

Emphasizes film theory as cultural analysis. Relates cultural phenomena to films that reflect elements of contemporary film theory focusing on spectatorship, stars, narration, authorship, genre, and film production. Includes lecture, film screenings, and critical discussions of assigned readings. Some films screened may be considered controversial and carry an "R" rating.

COMM 3160
Social Media Analytics
3:3:0 On Sufficient Demand
 * Prerequisite(s): COMM 3120 and University Advanced Standing

Provides methods in which social media activity data is obtained and subsequently measured. Examines common metrics that are used to evaluate the effectiveness of social media campaigns. Explores how social media, as a medium, can be properly evaluated in terms of valuation and return on investment. Critiques and analyzes current and past social media campaigns in order to better understand how metrics can help to modify social media strategy and tactics. Applies the associated theoretical concepts via hands-on activities using contemporary social media content management tools and analytic software. Software fee of \$20 applies.

COMM 319G
Intercultural Communication Encounters
3:3:0 Fall, Spring
 * Prerequisite(s): University Advanced Standing

Promotes awareness of the role of competent communication in intercultural awareness and sensitivity. Reviews classical and current definitions of culture and describes their general characteristics, with specific focus on the issue of cultural diversity. Describes the components and process of intercultural communication including perception and motivation. Provides an overview of differences and similarities in verbal and nonverbal intercultural communication. Identifies guidelines for achieving intercultural communication competence.

COMM 332G (Cross-listed with: MGMT 332G)
Cross Cultural Communications for International Business
3:3:0 Fall, Spring
 * Prerequisite(s): (ENGL 2010 or ENGL 2020 or COMM 1050) and University Advanced Standing

Discusses today's business environment which requires work in a multi-ethnic setting. Overviews critical elements that arise from the various cultural backgrounds which can impact both domestic and international organizations. Proceeds from a management point of view with lessons easily derived for the mid-level manager as well as for line personnel. Concentrates on managerial communications, negotiations, cultural changes, and management functions.

COMM 3410 (Cross-listed with: BESC 3410)
Fundamentals of Mediation and Negotiation
3:3:0 Fall, Spring
 * Prerequisite(s): (COMM 1050 or PSY 1010 or SOC 1010 or SW 1010 or FAMS 101G) and University Advanced Standing

Teaches students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Emphasizes conceptual knowledge of both processes and improves practical skills and effectiveness as a mediator and negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play.

COMM 3420 (Cross-listed with: BESC 3420)
Communication and Conflict
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): (FAMS 3410 or COMM 3410 or COMM 2110 or LEGL 3150) and University Advanced Standing

Studies contemporary theories of conflict and communication. Analyzes the roles of culture, gender, personal, and organizational ethics in conflicts and disputes. Covers the nature of conflict and teaches methods of negotiation, mediation, and conflict resolution with an emphasis on collaborative problem-solving.

COMM 350R
Special Topics in Communication
3:3:0 On Sufficient Demand
 * Prerequisite(s): University Advanced Standing

Presents selected topics in communication, and will vary from semester to semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for a total of 9 credits toward graduation. Canvas Course Mats \$66/McGraw applies

COMM 3520
Public Relations Case Studies
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): COMM 1500, COMM 2300, COMM 3020, and University Advanced Standing

Examines public relations strategic planning process through the analysis of case studies. Addresses strategic communication planning issues in media relations, crisis communications, ethics, creative planning, research, and evaluation, using real-world situations and clients. Promotes learning individually and in teams. Software fee of \$20 applies.

COMM 3530
Public Relations Writing
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): COMM 1130, COMM 1610, COMM 2300, ENGL 2010, and University Advanced Standing

Develops skills in persuasive writing for institutional or individual clients. Provides a hands-on experience in learning to develop and utilize public relations writing tools for corporate, non-profit, government, and public relations organizations. Covers writing for the media, designing and writing corporate literature, and working with the public on behalf of a business or individual as it relates to public relations.

COMM 3540
Sports Public Relations
3:3:0 Fall, Spring
 * Prerequisite(s): COMM 1500, COMM 2300, and University Advanced Standing

Examines the history of sports communication for public relations, spotlights sports communication key influencers, and highlights the skills necessary to effectively communicate in a changing sports marketplace. Exposes students to how public relations, social networking, corporate involvement and mass media continue to shape a dynamic field that remains a top choice for creative communication professionals across the globe. Incorporates students' sports writing skills as they learn the execution of sports digital media plans, media conferences, and media availability.

COMM 3560
Public Relations Event and Media Coordination
3:3:0 Fall
 * Prerequisite(s): COMM 1500, COMM 2300, and COMM 3530; University Advanced Standing.

Examines the process of event coordination as it relates to public relations and media management. Reviews the history of festivals and events. Provides an understanding of the concepts of project coordination, strategic planning, and strategic vision within event coordination. Explores media management within event coordination for events that include award shows, film festivals, government press conferences, sporting events, fundraisers, promotional events, and more. Explores public-relations careers within event coordination, and helps students create, develop, manage, execute, and evaluate an event from a public-relations approach.

COMM 3570
Crisis Communication
3:3:0 Fall
 * Prerequisite(s): COMM 2300, University Advanced Standing

Provides a broad theoretical and practical understanding of crisis communication and risk assessment. Examines recent crisis cases to understand what constitutes and causes organizational crises, how to avoid crises, and what to do when a crisis hits. Evaluates communicative channels and messages, including new media, and develops strategies to prepare and manage a crisis situation.

COMM 3600
Mass Media Ethics and Law
3:3:0 On Sufficient Demand
 * Prerequisite(s): COMM 1500 and University Advanced Standing

Teaches the basics of media ethics and law. Includes ethics in journalism, broadcasting, advertising and public relations, and fundamental legal concerns, including First Amendment, libel, slander, media case law, advertising regulations, and copyright law.

COMM 362G
International Communication
3:3:0 On Sufficient Demand
 * Prerequisite(s): COMM 3020, COMM 3050, and University Advanced Standing

Introduces theories of international communication. Covers different systems of the press in different countries. Analyzes specific case studies in international media.

Course Descriptions

COMM 363R

Wolverine Student Public Relations Firm **3:3:0** **Fall, Spring**

* Prerequisite(s): COMM 2300 and COMM 3530 and University Advanced Standing; all courses must be C- or better.

Provides valuable industry experience in a Public Relations firm style setting working in corporate and nonprofit sectors. Applies public relations writing, media relations, event planning, branding, copying editing, content creation and social media management for real-world organizations. Performs market and consumer research, have day-to-day contact with clients, create and implement Public Relations campaigns, and prepare campaign evaluations for client work. Enables students to create personal professional portfolios. May be repeated for a maximum of six credits toward graduation. May be graded Credit/No Credit.

COMM 3660

Investigative Reporting **3:3:0** **On Sufficient Demand**

* Prerequisite(s): COMM 1610 with a C- or higher and University Advanced Standing

Explores news and information in a democratic framework. Develops interview techniques, public record use, fact checking and electronic data access in relation to complex social issues.

COMM 3680

Advertising Media Planning **3:3:0** **On Sufficient Demand**

* Prerequisite(s): COMM 2300 and University Advanced Standing

Teaches the process of media planning. Covers procedures, issues, and methods of evaluation. Takes a problem-solving approach, oriented to targeting particular audiences in appropriate ways.

COMM 3690

Creative Strategy in Communication Campaigns **3:3:0** **On Sufficient Demand**

* Prerequisite(s): COMM 2300 or COMM 2250 and University Advanced Standing; all courses must be C- or better.

Prepares students for careers in public relations, journalism, and communication by exploring the role of research, copywriting, design, and media structures in developing persuasive messages. Emphasizes execution of creative strategies that are appealing to the intended audience, consistent with communication objectives, and formatted correctly for the media in which they are implemented.

COMM 3700

Free Expression in a Democratic Society **3:3:0** **Fall, Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines the role of the free speech and free press clauses of the First Amendment of the U.S. Constitution from legal, ethical, political, and pragmatic perspectives. Covers basic rules governing the media (advertisers, newspapers, public relations specialists, and electronic media) and individuals will be examined. Includes analysis of court decisions, executive orders, administrative rules, and legislation intended to limit or regulate speech and examples of people/organizations who have challenged these rules.

COMM 3780

Mormon Cultural Studies **3:3:0** **Fall, Spring**

* Prerequisite(s): University Advanced Standing; COMM 3020 and COMM 3050 each recommended

Examines the intersection of media, popular culture, and Mormonism. Analyzes the social construction of Mormonism through representations in the media, official and unofficial LDS discourse, folklore, material culture, and history. Discusses cultural theories of race, gender, orientalism, and tribalism.

COMM 3790

Case Studies in Journalism **3:3:0** **Spring**

* Prerequisite(s): (COMM 1610 with a C- or higher) and University Advanced Standing

Examines historically significant examples of the press in action from historical, ethical, and critical perspectives. Requires a research paper.

COMM 380R

Long Format Video Journalism **3:3:0** **On Sufficient Demand**

* Prerequisite(s): COMM 1610 and University Advanced Standing

Covers long-format video journalism, including pre-production, production, post-production, and legal and ethical issues. Studies a range of cinematic and televisual narrative strategies and structures. Includes the production of a long-format video story. May be repeated for a maximum of 6 credits toward graduation. Lab access fee of \$30 for computers applies.

COMM 401G

Communication Education **3:3:0** **Fall, Spring**

* Prerequisite(s): COMM 1020 and University Advanced Standing; all courses must be C- or better.

Explores communication education. Identify concepts and apply them to the service and interaction. Focuses on teaching. Encourages critical examination of diversity, research, socio-emotional bonding, outreach to the communication community, and instructional issues that relate to teaching communication. Offers experience in the role of teaching assistant. Global/Intercultural understanding as it applies to communication theory is considered and explored from a variety of perspectives. Examines the perspectives, experiences and concerns of individuals and groups representing cultures other than one's own and specifically as those differences apply to public speaking. Understanding is integrated throughout the course content. Understanding and appreciation should enhance your educational experience and facilitate your preparation to participate as active, informed, respectful citizens.

COMM 4110

Interpersonal Communication Theory & Research **3:3:0** **Fall**

* Prerequisite(s): (COMM 2110, COMM 3020, and COMM 3050 with a C- or higher in each) or Instructor Approval, and University Advanced Standing

Surveys current interpersonal research. Explores the interrelated nature of theory and research. Provides the foundational knowledge required to critically assess current research in the field. Creates an opportunity to systematically explore a personal area of interest within the area of interpersonal communication.

COMM 4115

Advanced Health Communication **3:3:0** **On Sufficient Demand**

* Prerequisite(s): (COMM 2115 or Instructor Approval) and University Advanced Standing; all courses must be C- or better.

Examines persuasion, interpersonal and organizational theories which are applied to patient, caregiver, technology, organizations and the mass media in an attempt to understand the health communication processes. Examine how communication influences health. Provides research skills necessary for the capstone course.

COMM 4120

Group Communication **3:3:0** **Spring**

* Prerequisite(s): (COMM 2120, COMM 3020, and COMM 3050 with a C- or higher in each) or Instructor Approval, and University Advanced Standing

Extends understanding of group operation and experience through current theory and research studies. Provides experiential activity of working in class groups. Enables students to study groups in their social environments, investigate real-world group policy, and discover the benefits of viewing groups as having stable yet permeable boundaries.

COMM 4170

Contemporary Issues in Organizational Communication **3:3:0** **Spring**

* Prerequisite(s): (COMM 2400 or Instructor Approval) and University Advanced Standing; all courses must be C- or better.

Provides an introduction, overview, and in-depth look at the role of communication in contemporary organizations. Demonstrates the importance and challenges of communication within organizations. Emphasizes the interdependence of internal and external forms of organizational communication.

COMM 4180

Communication and Social Behavior **3:3:0** **Fall, Spring**

* Prerequisite(s): (COMM 3020 and COMM 3050) and University Advanced Standing; all courses must be C- or better.

Examines the complex relationship between human communication and the social worlds in which we live. Looks at ways behavior in roles, institutions, and culture are socially constructed through language. Examines discourses and their role in constructing social phenomena, with an emphasis on the relationships between discourse and power.

COMM 4200 (Cross-listed with: FAMS 4200)**Advanced Mediation and Negotiation****3:3:0** **Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher) and (FAMS 3410 or COMM 3410 or BESC 3420 or COMM 3420) and University Advanced Standing

Prepares students to perform at an advanced level in the processes of mediation and negotiation. Builds on the fundamentals learned in the basic course, improves knowledge of both processes, and sharpens practical skills and effectiveness as a mediator or negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play. A certification with the Utah State Court Administrator's office may be offered to those who pass the course and complete 10 hours of mediation and negotiation at the conclusion of the semester.

COMM 4250**Communication and Leadership****3:3:0** **Fall**

* Prerequisite(s): University Advanced Standing

Encourages students to critically analyze leadership in terms of interpersonal effectiveness and professionalism from both a theoretical and practical perspective. Examines leadership-related, advanced oral and written communication, interpersonal communication, group and team communication and effectiveness, emotional intelligence, and power and influence.

COMM 431R**Communication Executive Lecture Series****1:1:0** **Fall, Spring**

* Prerequisite(s): University Advanced Standing

Presents lectures by guest speakers emphasizing current public relations and communication topics concerning the student, community, nation, etc. Exposes students to varying topics and industry experts each semester. May be repeated as desired.

COMM 4500**Media and Politics****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (COMM 3020, and COMM 3050 with a C- or higher in each) and University Advanced Standing

Examines theories and research of media and politics. Analyzes the intersection between traditional and emerging media platforms and current issues in political campaigns, attitudes towards politics, and democratic participation.

COMM 479R**Journalism Workshop****3:1:6** **Fall, Spring**

* Prerequisite(s): University Advanced Standing

For student newspaper staff. Provides student newspaper staff experience in writing, editing and publishing. Allows students to work on the student newspaper and complete specific learning objectives related to print production such as news and feature writing, columns and editorials. Focuses on layout, production, photography, advertising, and sales in a real-world newspaper environment. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

COMM 481R**Internship****1 to 8:0:5 to 40** **Fall, Spring, Summer**

* Prerequisite(s): Departmental Approval and University Advanced Standing

For upper division students working toward a Bachelor of Arts or a Bachelor of Science degree in Integrated Studies with a Communication emphasis. Provides a transition from school to work where academic concepts are applied to actual practice through on-the-job experience commensurate with upper-division classroom instruction. Requires instructor approval and final report. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

COMM 4830**Competitive Case Studies****3:3:0** **Fall Odd Years**

* Prerequisite(s): COMM 3530 with a C- or higher, Instructor Approval, and University Advanced Standing

Teaches competitive case studies with a public relations emphasis. Focuses on development, research, execution, and evaluation of strategic communication planning for a client. Prepares students to compete in regional or national competitions. Software fee of \$20 applies.

COMM 4850**Public Relations Campaigns****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): COMM 3020, COMM 3520, and COMM 3530; Junior or Senior standing; and University Advanced Standing; all courses must be C- or better; and Instructor Approval

Applies PR skills, case studies, and writing analysis to create strategic public relations campaigns for a number of clients. Requires students to generate a portfolio of work for one or more clients. Software fee of \$20 applies.

COMM 4930**Communication Capstone****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): (COMM 401G or COMM 4110 or COMM 4115 or COMM 4120 or COMM 4170 or COMM 4180), Communication major, Senior status, and University Advanced Standing

Discusses the integration of various principles and objectives covered across the communication curriculum. Includes major thesis or project designed to reflect students' career goals.

COMM 497R**Independent Study****1 to 3:1 to 3:0** **On Sufficient Demand**

* Prerequisite(s): Departmental approval and University Advanced Standing

For advanced qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, creating a portfolio of published news articles, producing an annotated bibliography, oral or multimedia presentation, or other advanced options as approved by the instructor. May be taken for a maximum of 9 credit hours toward graduation.

Computing (COMP)**COMP 1000****Computer and Information Literacy****3:3:0** **On Sufficient Demand**

Discusses computer and information literacy, focusing on current technology, emerging technology, and social media. Promotes appropriate and ethical use of technology, critical-thinking skills, and problem-solving strategies. Develops skills in word processing, spreadsheet, presentation, and image-editing applications for personal and college success.

COMP 301R**Digital Lecture Series****1:1:0** **Fall, Summer**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Guest speakers lecture on current topics in computer science, digital media, and information systems/technology. May be repeated for a maximum of 3 credits toward graduation.

Collision Repair Technology (CRT)**CRT 100R****Paint Your Own Car****2:1:4** **Fall, Spring, Summer**

Designed as a survey class. Discusses and demonstrates safety, sanding, masking, feather edging, priming, and refinishing of student's vehicle. Students will refinish their own projects in this class. Body and fender dents, rust out, etc., should be taken care of before class enrollment. The instructor will inspect and approve each project prior to allowing it in the program. Course is open to any community member who may profit from the instruction. May be repeated as desired for interest. Tool room fee of \$19 for equipment applies.

CRT 110**Surface Preparation****2:2:0** **Fall**

Covers environmental and personal safety when handling collision industry chemicals. Discusses metal preparation, surface treatment, painting and surface rust removal, proper sanding of old finishes, and film build tolerances. Teaches application and uses of undercoats, primers, primer surfacers, sealers and primer sealers. Covers block sanding, guide coats, wax and grease removers, and surface pre-cleaning techniques. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 111L**Surface Preparation Lab****1:0:3** **Fall**

* Corequisite(s): CRT 1110

Provides laboratory experience for surface preparation techniques aligning with lectures from CRT 1110. Topics include finish removal, sanding techniques, undercoating materials. Tool room fee of \$19 for equipment applies. Course Lab fee of \$40 for materials applies.

Course Descriptions

CRT 1120

Nonstructural Repair

2:2:0 **Fall, Summer**

Offers in-depth analysis of minor damage and applied metal working techniques. Studies properties of metal, elasticity, corrosion protection, work hardening, rough out, hammer and dolly techniques, heat shrinking, pick and file and grinding methods. Presents application of corrosion protection materials, body fillers, including metal and fiber reinforced fillers, and their shaping. Emphasizes safety precautions. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 112L

Nonstructural Repair Lab

1:0:3 **Fall, Summer**

* Corequisite(s): CRT 1120

Provides a laboratory experience for nonstructural repair techniques aligning with lectures from CRT 1120. Topics include fillers use, metallurgy, shrinking and stretching. Tool room fee of \$19 for equipment applies. Course Lab fee of \$22 for materials applies.

CRT 1130

Overall Refinishing and Problem Solving

2:2:0 **Spring**

Teaches use and maintenance of shop paint spray equipment. Studies types of undercoatings including sealers, primers, and primer surfacers, their use, limitations, and application. Discusses refinish products, their solid levels, coverage, and recommended refinish systems. Teaches prevention and removal of refinishing processing defects. Covers cutting and buffing. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 113L

Overall Refinishing and Problem Solving Lab

1:0:3 **Spring**

* Corequisite(s): CRT 1130

Provides a laboratory experience for overall refinishing and problem solving techniques aligning with lectures from CRT 1130. Topics include safety, substrate usage, application techniques, base coats, clear coats, single stage paints, and tri coat processes, application / refinish / material defects, causes and cures. Tool room fee of \$10 for equipment applies. Course Lab fee of \$74 for materials applies..

CRT 1140

Panel Replacement and Adjustment

2:2:0 **Spring**

Studies removal, replacement, and alignment of bolt-on body panels. Presents multiple latch mechanisms and their adjustments. Various trim and body fasteners are discussed. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 114L

Panel Replacement and Adjustment Lab

1:0:3 **Spring**

* Corequisite(s): CRT 1140

Provides a laboratory experience for panel replacement and adjustment techniques aligning with lectures from CRT 1140. Topics include replacement and alignment of bolt-on body panels, fasteners and trim. Tool room fee of \$19 for equipment applies.

CRT 1210

Blending Tinting and Detailing

2:2:0 **Spring**

Studies automotive refinish blending techniques. identifies proper procedures for Single stage, Base Coat, and Tri stage blending. Identifies detailing techniques and materials. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 121L

Blending Tinting and Detailing Lab

1:0:3 **Spring**

* Corequisite(s): CRT 1210

Provides a laboratory experience for blending tinting and detailing techniques. Identifies proper procedures for Single stage, Base coat, and Tri stage blending. Identifies detailing techniques and materials. Tool room fee of \$10 for equipment applies. Course Lab fee of \$53 for materials applies.

CRT 1230

Welding and Cutting

2:2:0 **Fall, Summer**

Introduces gas welding and cutting followed by intense study of MIG, TIG, STRSW welding of mild, high strength, ultra high strength steels, and aluminums. Studies the most common joints as they apply to current vehicles construction techniques. Introduces plasma arc cutting techniques. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 123L

Welding and Cutting Lab

1:0:3 **Fall, Summer**

* Corequisite(s): CRT 1230

Provides a laboratory experience for welding and cutting techniques aligning with lectures from CRT 1230. Topics include MIG, TIG, Squeeze Type Resistant Spot Welding (STRSW), welding processes. Tool room fee of \$19 for equipment applies. Course Lab fee of \$39 for materials applies.

CRT 2310

Collision Damage Reporting

2:2:0 **Fall**

* Prerequisite(s): CRT 1120, CRT 1130, CRT 1230, recommended

Teaches estimating procedures. Uses Crash Estimating Guide. Covers labor and material costs, judgment of repairs, estimating, and insurance nomenclature. Includes computer generated damage reporting, page logic, and ethical problem solving. Uses lecture, guest speakers, and practice exercises. Includes demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 231L

Collision Damage Reporting Lab

1:0:3 **Fall**

* Prerequisite(s): CRT 112L, CRT 113L, CRT 123L, all recommended

* Corequisite(s): CRT 2310

Provides a laboratory experience for collision damage estimating techniques aligning with lectures from CRT 2310. Topics include: damage analysis sequence, repair and replace decisions, using crash estimating guide, procedure page analysis of crash estimating guide, selecting parts and labor amounts in crash estimating guide, and various estimating programs for the computer. Tool room fee of \$19 for equipment applies. Course Lab fee of \$23 for materials applies.

CRT 2320

Structural Damage Analysis

2:2:0 **Fall**

* Prerequisite(s): CRT 1230

Teaches visual inspection, gauging, measuring, laser technology, and procedures needed to correctly evaluate primary and secondary structural damage. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 232L

Structural Damage Analysis Lab

1:0:3 **Fall**

* Prerequisite(s): CRT 123L

* Corequisite(s): CRT 2320

Provides a laboratory experience for analyzing structural damage to conventional and unibody frames. Aligns with lectures from CRT 2320. Topics include: damage identification, body and frame measurement systems, interpret dimension information, set up and properly use a variety of manual, and computerized measuring systems. Tool room fee of \$19 for equipment applies. Course Lab fee of \$20 for materials applies.

CRT 2330

Structural Repair

2:2:0 **Fall**

* Prerequisite(s): CRT 1230

Teaches methods, strategies, and technology needed to align and straighten unibody and conventional frame components made from high strength steel and plastics. Studies alignment of steering and suspension components. Includes lecture, demonstrations, and lab. Software fee of \$10 applies. Lab access fee of \$10 applies.

CRT 233L
Structural Repair Lab
1:0:3 **Fall**
 * Prerequisite(s): CRT 123L
 * Corequisite(s): CRT 2330

Provides a laboratory experience for aligning and straightening unibody and conventional components made from high strength steel and plastics. Tool room fee of \$19 for equipment applies.

CRT 2340
Full and Partial Panel Replacement
2:2:0 **Spring**
 * Prerequisite(s): CRT 1140, CRT 1230

Teaches removal, alignment, welding, gluing, and corrosion protection technology needed to replace unibody components including rails, pillars, and weld-on panels. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 234L
Full and Partial Panel Replacement Lab
1:0:3 **Spring**
 * Prerequisite(s): CRT 114L, CRT 123L
 * Corequisite(s): CRT 2340

Provides a laboratory experience for full and partial panel replacement, aligning with lectures from CRT 2340. Topics include: removal, alignment, welding, gluing, and corrosion protection technology needed to replace unibody components: including rails, pillars, and weld-on panels. Tool room fee of \$19 for equipment applies. Course Lab fee of \$15 for materials applies.

CRT 2400
Plastic Paintless Dent Repair
2:2:0 **Spring**
 * Prerequisite(s): CRT 1110, CRT 1120

Teaches plastic parts identification, interpretation of ISO codes, plastic welding equipment and techniques, SMC repairs and sectioning. Instructs in paintless dent repair tools, and methods of repair. Uses Advanced Tech I-CAR curriculum. Includes lecture, demonstrations.

CRT 240L
Plastic PaintLess Dent Repair Lab
1:0:3 **Spring**
 * Prerequisite(s): CRT 111L, CRT 112L
 * Corequisite(s): CRT 2400

Provides a laboratory experience for plastic parts identification, interpretation of ISO codes, plastic welding equipment and techniques, SMC repairs and sectioning. Instructs in paintless dent repair tools, and methods of repair. Uses Advanced Tech I-CAR curriculum. Includes hands-on demonstrations. Tool room fee of \$10 for equipment applies. Course Lab fee of \$35 for materials applies.

CRT 2420
Plastic Repair
4:1.5:7 **Spring**

Teaches various repair methods, tools, and materials used to correctly repair plastic materials and SMC panels in modern vehicles. Includes lecture, demonstrations, and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 2430
Mechanical and Electrical Repair
4:1.5:7 **Spring**

Teaches basic mechanical systems theory, removal, and replacement. Studies A/C systems, cooling, braking, emission, restraint, and electrical systems. Includes lecture, demonstrations and lab. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

CRT 2440
Mechanical Advanced Vehicle Systems
2:2:0 **Spring**

Teaches basic mechanical systems theory, removal, and replacement. Studies basic four-wheel steering, traction control, G.P.S., electronic stability control, and black box technology information systems, minor diagnosis and troubleshooting. Includes lecture and demonstrations. Uses Advanced Tech I-CAR curriculum.

CRT 244L
Mechanical Advanced Vehicle Systems Lab
1:0:3 **Spring**
 * Corequisite(s): CRT 2440

Provides a laboratory experience for mechanical systems theory, removal, and replacement. Instructs in basic-four wheel steering, traction control, G.P.S., electronic stability control, and black box technology information systems, minor diagnosis and troubleshooting. Includes demonstrations and hands-on. Uses I-CAR Advanced Technical Curriculum. Tool room fee of \$19 for equipment applies.

CRT 2450
Bags Brakes Steering
2:2:0 **Spring**

Teaches the operation and repair of active and passive restraint systems. Diagnosis of sensors, modules and related components is also discussed. Discusses drum, disc, and anti-lock brake systems and components. Covers parallelogram, and rack and pinion steering systems, repair, replacement and diagnosis of each system is addressed. Uses Advanced Tech I-CAR curriculum.

CRT 245L
Bags Brakes Steering Lab
1:0:3 **Spring**
 * Corequisite(s): CRT 2450

Teaches the operation and repair of active and passive restraint systems. Diagnosis of sensors, modules and related components is also discussed. Discusses drum, disc, and anti-lock brake systems and components. Covers parallelogram, and rack and pinion steering systems, repair, replacement and diagnosis of each system is addressed. I-CAR Advanced Tech curriculum is used. Tool room fee of \$19 for equipment applies. Course Lab fee of \$27 for materials applies.

CRT 2510
Custom Welding
2:2:0 **Fall**

For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Covers TIG welding processes for mild steel, stainless steel, and aluminum. Teaches oxyacetylene welding processes for mild steel, brass, copper, pot metal, and aluminum.

CRT 251L
Custom Welding Lab
1:0:3 **Fall**
 * Corequisite(s): CRT 2510

Provides a laboratory experience for TIG welding processes for mild steel, stainless steel, and aluminum. Instruction in Oxyacetylene welding processes for mild steel, brass, copper, pot metal, and aluminum. Tool room fee of \$19 for equipment applies. Course Lab fee of \$69 for materials applies.

CRT 2520
Customizing
2:2:0 **Fall**

For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Covers frenching, shaving, body modifications, convertible conversions, building hood scoops, louvers, flare, and other technical customizing processes.

CRT 252L
Customizing Lab
1:0:3 **Fall**
 * Corequisite(s): CRT 2520

Provides a laboratory experience for frenching, shaving, body modifications, convertible conversions, building hood scoops, louvers, flare, and other technical customizing processes. Tool room fee of \$19 for equipment applies. Course Lab fee of \$11 for materials applies.

CRT 2530
Panel Fabrication
2:2:0 **Fall**

For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers basic fabricating tools such as sheet metal brake, slip rolls, band saw, and nibblers. Uses specialty tools such as English wheel, power hammer, kraffformer, plenisher hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming.

Course Descriptions

CRT 253L

Panel Fabrication Lab

1:0:3

Fall

* Corequisite(s): CRT 2530

Provides a laboratory experience for basic fabricating tools such as sheet metal brake, slip rolls, band saw, and nibblers. Uses specialty tools such as English wheel, power hammer, kraftfomer, plenisher hammer, shrinkers, and stretchers. Teaches panel fabrication and hammer forming. Tool room fee of \$19 equipment applies. Course Lab fee of \$60 materials applies.

CRT 2540

Structural Body Fabrication

2:2:0

On Sufficient Demand

For students pursuing a diploma or AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers body construction from bumper to bumper and from roof to floor. Enhances knowledge of structural components of a well constructed vehicle.

CRT 254L

Structural Body Fabrication Lab

1:0:3

On Sufficient Demand

* Corequisite(s): CRT 2540

Provides a laboratory experience for body construction from bumper to bumper and from roof to floor. Enhances knowledge of structural components of a well constructed vehicle.

CRT 2610

Top Chopping Sectioning and Channeling

2:2:0

Spring

* Prerequisite(s): CRT 2510, CRT 251L

For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a basic welding and collision repair background. Covers the history of vintage vehicles, methods of top chopping, sectioning and channeling techniques.

CRT 261L

Top Chopping Sectioning and Channeling Lab

1:0:3

Spring

* Prerequisite(s): CRT 2510, CRT 251L

* Corequisite(s): CRT 2610

Provides a laboratory experience for methods of top chopping, sectioning and channeling techniques. Tool room fee of \$19 for equipment applies. Course Lab fee of \$16 for materials applies.

CRT 2620

Frames

2:2:0

Spring

* Prerequisite(s): CRT 2510, CRT 251L

For students pursuing a Diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members with a welding background. Identifies the different types of frames and how to modify them. Teaches sub-framing, pro-streeting, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear.

CRT 262L

Frames Lab

1:0:3

Spring

* Prerequisite(s): CRT 2510, CRT 251L

* Corequisite(s): CRT 2620

Provides a laboratory experience for identifying the different types of frames and how to modify them. Teaches sub-framing, pro-streeting, narrowing of rear ends, drive shafts, and complete frame change over. Covers exhaust systems and other alterations, front to rear. Tool room fee of \$19 equipment applies.

CRT 2630

Detailing and Custom Painting

2:2:0

Spring

* Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140, CRT 1210

For students pursuing a Diploma or an AAS degree in Collision Repair Technology or Custom Street Rod Technology or interested community members with a automotive painting background. Teaches custom painting and detailing for show cars. Emphasizes flames, scallops, shredding, checker boarding, air brush techniques, murals, fish scales, three stage paints, pearls, candies, and multi-colored changes.

CRT 263L

Detailing and Custom Painting Lab

1:0:3

Spring

* Prerequisite(s): CRT 111L, CRT 112L, CRT 113L, CRT 121L

* Corequisite(s): CRT 2630

Provides a laboratory experience for custom painting and detailing for show cars. Emphasizes flames, scallops, shredding, checker boarding, air brush techniques, murals, fish scales, three stage paints, pearls, candies, and multi-colored changes. Tool room fee of \$19 for equipment applies. Course Lab fee of \$73 for materials applies.

CRT 2640

Panel Fabrication of Aluminum

2:2:0

Fall

* Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140

For students pursuing a diploma or an AAS degree in Collision Repair Technology with an emphasis in Custom Street Rod Technology or interested community members. Covers basic hand tools, such as: hammers, dollies, leather bags, and slappers. Use of specialty equipment, such as: English wheel, Pullmax, nibbler, power hammers, and bead rollers. Teaches making bucks, patterns and forms. Teaches panel fabrication of aluminum.

CRT 264L

Panel Fabrication of Aluminum Lab

1:0:3

Fall

* Corequisite(s): CRT 2640

Provides laboratory experience for use of: hammers, dollies, leather bags, and slappers. Instructs in the use of specialty equipment, such as: English wheel, Pullmax, nibbler, power hammers, and bead rollers. Teaches making bucks, patterns and forms. Teaches panel fabrication of aluminum. Tool room fee of \$19 for equipment applies. Course Lab fee of \$60 for materials applies.

CRT 2650

Automotive Interior Design

2:2:0

Spring

* Prerequisite(s): CRT 1110, CRT 1120, CRT 1130, CRT 1140

Discusses automotive interior designs with emphasis on color coordination, and materials. Identifies a variety of techniques used in alteration, sewing, layout, and attachment processes.

CRT 265L

Automotive Interior Design Lab

1:0:3

Spring

* Corequisite(s): CRT 2650

Offers a laboratory experience for CRT 2650 lecture. Demonstrates interior design materials, color coordination, and stitching techniques. Teaches fabrication, design attachment, molding, layout and cutting. Tool room fee of \$19 for equipment applies. Course Lab fee of \$96 for materials applies.

CRT 281R

Cooperative Work Experience

1 to 8:0:5 to 40

Fall, Spring, Summer

* Corequisite(s): CRT 285R

Designed for Collision Repair Technology Majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer and coordinator evaluations, on-site work visits. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated as desired for interest. May be graded credit/no credit.

CRT 285R

Cooperative Correlated Class

1:1:0

Fall, Spring, Summer

* Corequisite(s): CRT 281R

Designed for Collision Repair Technology Majors. Identifies on-the-job problems and provides remediation of those problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with the approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study. May be repeated as desired for interest.

CRT 299R

VICA

1:1:0

Fall, Spring

Designed for Collision Repair Technology Majors. Supports and facilitates the goals and objectives of Vocational Industrial Clubs of America (VICA). VICA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests. May be repeated as desired for interest.

Computer Science (CS)

CS 1030

Foundations of Computer Science

3:3:0 Fall, Spring, Summer

Introduces the basics of computing, including computer hardware, and programming concepts and language. Explores how computers work and how a computer may be programmed. Includes a brief history of computer, programming languages, and computer numbering systems. Presents basic programming constructs; students produce a variety of introductory level programs. Surveys various computing professions. May be delivered hybrid and/or online. Lab access fee of \$35 computers applies.

CS 129R

Fundamental Topics in Computer Science

3:3:0 On Sufficient Demand

* Prerequisite(s): As required by topic, contact instructor

Introduces and explores topics of current interest in computer science at a fundamental level. Topics vary each semester depending upon the current state of technology. A maximum of three (3) credits may be counted towards graduation without prior written CNS Department approval. Lab access fee of \$35 for computers applies.

CS 1400

Fundamentals of Programming

3:3:0 Fall, Spring, Summer

* Prerequisite(s): MAT 1010 or higher or appropriate test scores. CS 1030 strongly recommended

For Majors in Computer Science, Computer Engineering, Software Engineering, and other majors requiring computer programming skills. Introduces the fundamental concepts of computer programming. Presents the ideas, tools, structure, syntax, and design techniques for developing well-formed programs. Studies problem solving, program structure, data types, decision logic, loops, functions, input and output, and arrays. Introduces the basic ideas of classes and objects. Requires students to program a number of assignments that demonstrate their understanding of these concepts. May be delivered online. Lab access fee of \$35 for computers applies.

CS 1410

Object Oriented Programming

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CS 1400

Introduces the key concepts of object-oriented programming. Includes pointers and dynamic memory allocation, linked lists, inheritance and polymorphism, the development of graphical user interfaces, operator overloading, memory management, exceptions, templates and the standard template library, and an overview of object-oriented analysis and design. May be delivered online. Lab access fee of \$35 for computers applies.

CS 2250

Java Programming

3:3:0 On Sufficient Demand

* Prerequisite(s): CS 1400

Covers practical Java programming in-depth, including abstract classes and interfaces, proper use of the packages Java.lang, Java.io, and Java.util, GUI design and implementation, and programming. Lab access fee of \$35 for computers applies.

CS 2300

Discrete Mathematical Structures I

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CS 1410 and (MATH 1050 or higher)

For Computer Science Majors. Covers algebraic structures applied to computer programming. Includes logic, sets, elementary number theory, mathematical induction, recursion, algorithm complexity, combinatorics, and relations. First of a two-semester sequence. Lab access fee of \$35 for computers applies.

CS 2370

C plus plus Programming

3:3:0 On Sufficient Demand

* Prerequisite(s): CS 1400

Covers practical C++ programming in-depth, including advanced operator overloading and memory management, proper use of exceptions, defensive programming techniques, automated testing, multiple inheritance, advanced memory management, proper use of the standard template library, and programming. Lab access fee of \$35 for computers applies.

CS 239R

Current Topics in Computer Science

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Department approval

Discusses emerging technologies and state-of-the-art topics of current interest in computer science. Varies each semester depending upon the state of technology. A maximum of three hours may be counted towards graduation without prior written CNS Department approval. Lab access fee of \$35 for computers applies.

CS 2420

Introduction to Algorithms and Data Structures

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CS 1410

Introduces data structures using an object-oriented programming language, and paradigm. Studies data abstraction as a design tool. Includes advanced arrays, records, dynamic data structures, searching and sorting, vectors, trees, linked lists, and graphs. Uses file I/O to store data structures. Discusses algorithm metrics. Lab access fee of \$35 for computers applies.

CS 2450

Software Engineering

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CS 2300, CS 2420

Presents concepts, methodology and best-practices necessary to develop large scale software projects. Includes step-wise software requirements analysis, design, implementation, testing and release. Discusses software generation, reuse, scheduling, verification, and maintenance. Emphasizes current "real world" industry best-practices and tools. Lab access fee of \$35 for computers applies.

CS 2550

Web Programming I

3:3:0 Fall, Spring

* Prerequisite(s): CS 1410 or DGM 2760 or INFO 1200

Covers design and development of browser-based programs with an emphasis on single-page applications. Teaches generation and modification of HTML via JavaScript, debugging techniques, communicating with web servers, and use of XML and JSON. Lab access fee of \$35 for computers applies.

CS 2600

Computer Networks I

3:3:0 Fall, Spring

* Prerequisite(s): CS 2810 or (INFO 1200 and IT 1600)

A rigorous introduction to computer networking theory and technologies for Computer Science and Information Technology majors. Includes theory of data communications protocols; theory and design of transmission systems; transmission media; and communication software. Emphasizes the lower layers of the Open Systems Interconnection model. Requires lab exercises to be completed outside of lecture. Lab access fee of \$35 for computers applies.

CS 2690

Computer Networks II

3:3:0 Fall, Spring

* Prerequisite(s): CS 1410, CS 2300, CS 2600

* Prerequisite(s) or Corequisite(s): MATH 1210

Continues CS 2600 Computer Networks I. Focuses on the upper layers of the OSI and Internet models. Covers Internet (TCP/IP) protocols, routing theory, transport protocols, network application interfaces, presentation formatting, information theory and compression, cryptography, and other emerging technologies as time permits. Requires lab exercises and programming assignments to be completed outside of lecture. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

CS 279R

Current Topics in Networking

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Department approval

Provides exposure to emerging technologies and state-of-the-art topics of current interest in networking. Varies each semester depending upon the state of technology. A maximum of three hours may be counted towards graduation without prior written CNS Department approval. Lab access fee of \$35 for computers applies.

CS 2810

Computer Organization and Architecture

3:3:0 Fall, Spring, Summer

* Prerequisite(s): CS 1400

Uses assembly language to introduce basic concepts of computer organization. Includes number systems, CPU organization, instruction sets, programming in assembly, memory organization, debugging, program design, and documentation. Covers interrupts, vector tables, and disk I/O. Lab access fee of \$35 for computers applies.

Course Descriptions

CS 281R

Internship

1 to 8:0:5 to 40 **Fall, Spring, Summer**

* Prerequisite(s): Department approval

Provides on-the-job work experience for CNS majors. Utilizes the skills and abilities in the fields of computer science, software engineering, networking, and/or computer engineering. May be repeated for a maximum of three credits toward graduation. May be graded credit/no credit.

CS 291R

Independent Study

1 to 6:0 to 6:0 to 18 **On Sufficient Demand**

This course will allow the student to pursue an independent topic in computer science and study this topic in-depth in a flexible non-classroom environment. A maximum of three hours may be counted towards graduation without prior written CNS Department approval. The topic must be approved by the instructor and the CNS Department Chair. Lab access fee of \$35 for computers applies.

CS 296R

CS Seminar

1 to 3:0 to 3:0 to 12 **On Sufficient Demand**

Presents topics of current interest to computer science in a seminar environment. Includes invited lectures by experts in the field, or a review of a particular technology by a faculty member. A maximum of three hours may be counted towards graduation without prior written CS Department approval. Lab access fee of \$35 for computers applies.

CS 305G

Global Social and Ethical Issues in Computing

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 2020 and (CS 1030 or CS 1400 or INFO 1120 or DGM 1110) and University Advanced Standing

Examines how computers have affected global society and how they could further affect it in the future. Challenges students to (1) examine several types of ethical reasoning to establish an ethical framework to assist in making normative judgments, (2) examine various ethical issues surrounding computer usage, particularly in differing societal contexts, (3) understand the responsibilities they bear, to know how their actions can affect both society and individual people in their own and other cultural settings, and to appreciate both the good and the harm they can do and (4) consider many of the moral and professional issues that those who work with computers might expect to face. Lab access fee of \$35 for computers applies.

CS 3060

Operating Systems Theory

3:3:0 **Fall, Spring**

* Prerequisite(s): CS 2420, CS 2810, and University Advanced Standing

Introduces the Unix operating system. Presents the underlying theory and concepts of an operating system, and covers the following topics in depth: device management, processes, threads, synchronization, scheduling, deadlocks, memory management, virtual memory, and file systems. Provides practical experience in writing programs that use standard Unix system calls to interface directly with the operating system. Most of the programs will be written in the C language. Lab access fee of \$35 for computers applies.

CS 3240

Discrete Mathematical Structures II

3:3:0 **Fall, Spring**

* Prerequisite(s): CS 2300, CS 2420, CS 2810, and University Advanced Standing

Presents concepts from discrete mathematics including formal languages, and automata, including Turing machines, regular expressions, grammars, and computability. Lab access fee of \$35 for computers applies.

CS 3250

Java Software Development

3:3:0 **Fall**

* Prerequisite(s): CS 2420 and University Advanced Standing

Covers features of the Java Programming Language, emphasizing mastery of core Java packages, java.lang, java.io, java.util, and other commonly-used library packages. Topics include abstract classes, interfaces, inner classes, JavaBeans, I/O operations in depth, collections and algorithms, reflection, threads, the Java Event Model, basic Swing Components, and XML processing. Introduces common idioms and design patterns. Emphasizes accepted software engineering Lab access fee of \$35 for computers applies.

CS 3260

CsharpNET Software Development

3:3:0 **Fall, Spring**

* Prerequisite(s): CS 2420 and University Advanced Standing

Introduces the C# programming language and the .NET Framework that the programming language is within. Discusses the various datatypes, built-in class in namespaces, and how to develop user defined classes and namespaces. Includes programming assignments for console, GUI, and ASP.NET applications. Lab access fee of \$35 for computers applies.

CS 3270

Python Software Development

3:3:0 **Spring**

* Prerequisite(s): CS 2420 or INFO 2200, and University Advanced Standing

Covers the features of the Python programming language. Includes scripting, dynamic typing, data types (sequences, sets, mappings, files, etc.), loops, iterators, generators, functions, coroutines, classes and objects, modules, packages and scope, runtime services, data wrangling, concurrent programming, etc. Lab access fee of \$35 for computers applies.

CS 3310

Analysis of Algorithms

3:3:0 **Fall, Spring**

* Prerequisite(s): MATH 1210, CS 2300, CS 2420, and University Advanced Standing

Introduces development and mathematical analysis of fundamental computer algorithms. Topics include: Divide and conquer and greedy algorithms, dynamic programming, backtracking, branch and bound and NP-completeness. Lab access fee of \$35 for computers applies.

CS 3320

Numerical Software Development

3:3:0 **Fall, Spring**

* Prerequisite(s): CS 2300, CS 2420, CS 2810, MATH 1210, and University Advanced Standing

Gives students mastery of the tools necessary for modern scientific computation. Covers computer representation of floating-point numbers, error analysis and numerical stability, IEEE floating-point standards, testing of numerical algorithms, calculation of elementary functions, roots of equations, solutions of linear systems, numerical integration and differentiation, interpolation and approximation, Monte Carlo methods. Lab access fee of \$35 for computers applies.

CS 3370

C plus plus Software Development

3:3:0 **Fall, Spring**

* Prerequisite(s): CS 2300, CS 2420, CS 2810, and University Advanced Standing

Prepares students for C++ programming in a production environment, emphasizing mastery of the standard C++ library. Covers the following topics in-depth: const correctness, operator overloading, exception handling, exception-safe design, programming with assertions, automated unit testing, advanced memory management, generic programming with templates, containers, iterators, algorithms, concurrency, and functional programming. Introduces library development, common idioms, and other advanced topics. Emphasizes accepted software engineering practices. Lab access fee of \$35 for computers applies.

CS 339R

Advanced Programming Language Other

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Varies depending on language offered; University Advanced Standing

Introduces and explores advanced state-of-the-art programming languages and concepts. Investigates topics using language specific analysis, design, Rapid Application Development (RAD), implementation, and testing. Explores language specific syntax, semantics, libraries, the integrated development environment, and debugging techniques. Demonstrates language concepts by developing and writing programs. A maximum of 3 credits will count towards graduation; however, with prior written CNS Department approval more than 3 credits may be counted towards graduation. May be delivered hybrid. Lab access fee of \$35 for computers applies.

CS 3410**Human Factors in Software Development****3:3:0** **Fall**

* Prerequisite(s): (CS 3250 or CS 3260 or CS 3370 or INFO 2200) and University Advanced Standing

Studies issues of software analysis, design, and development for and from the perspective of human-computer interaction. Emphasizes design of the human-computer interface, effective presentation of data via graphics, color, text, sound, etc., to the user. Uses development tools for effective graphic presentation, the elements of effective information presentation to users. Lab access fee of \$35 for computers applies.

CS 3450**Principles and Patterns of Software Design****3:3:0** **Fall, Spring**

* Prerequisite(s): (CS 3250 or CS 3260 or CS 3270 or CS 3370) and University Advanced Standing

Gives students familiarity with modern principles and practices of software design. Emphasizes design patterns, including their motivation and the design principles on which they are based. Lab access fee of \$35 for computers applies.

CS 3520**Database Theory****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): CS 2300, CS 2420, and University Advanced Standing

For Computer Science majors. Introduces theory, concepts, architecture, and use of database management systems (DBMS). Presents the relational and object-oriented database models used in both local and client/server databases. Discusses the Structured Query Language (SQL), database design, normalization theory, and relational calculus relating to database management systems. Lab access fee of \$35 for computers applies.

CS 3540**Game Programming****3:3:0** **Fall**

* Prerequisite(s): CS 2420 and University Advanced Standing

Teaches techniques for two and three-dimensional graphics programming using DirectX, OpenGL, and/or game engines built on those libraries. Presents concepts of game design that relate to the design and implementation of game software, including procedural generation of assets. Includes application of artificial intelligence concepts to game programming. Introduces the use of network programming techniques for development of multi-player games. May be delivered hybrid. Lab access fee of \$35 for computers applies.

CS 3660**Web Programming II****3:3:0** **Fall, Spring**

* Prerequisite(s): CS 2420, CS 2550, and one of CS 3250 or CS 3260 or CS 3270 or CS 3370, and University Advanced Standing

Builds upon concepts taught in CS 2550 Web Programming I. Teaches how to design, implement, test, and debug medium sized web applications using both client and server side technologies. Includes web security, data markup languages, server side scripting technologies, web application interactions with databases, and web service architectures. Teaches how to develop a full web-site having sophisticated user interactions at a variety of security levels. May be delivered hybrid. \$35 course fee for computers applies.

CS 3670**Network Programming****3:3:0** **Spring**

* Prerequisite(s): CS 2690, CS 3250, and University Advanced Standing

Covers concept and practical application of socket communication and network protocols. Presents design and implementation of network applications, with special focus on applications for handheld devices such as smart phones. May be delivered online. Lab access fee of \$35 for computers applies.

CS 3680**Mobile Device Programming****3:3:0** **Spring**

* Prerequisite(s): CS 2420 and University Advanced Standing

Teaches software design and programming principles and practices for developing applications for mobile devices. Addresses issues such as application life-cycle, user interfaces on touch-screen devices, options for data storage and communication, power and performance, and using graphics and media. Examines hardware features common in mobile devices such as GPS, accelerometers, and cameras. Lab access fee of \$35 for computers applies.

CS 3720**Database Programming****3:3:0** **On Sufficient Demand**

* Prerequisite(s): CS 3520 and University Advanced Standing

Develops the mastery of programming interfaces to local, remote, web and cloud databases. Uses console, Microsoft Windows WPF and web user interfaces. Lab access fee of \$35 for computers applies.

CS 4100**Database Management System****Construction****3:3:0** **Spring**

* Prerequisite(s): CS 3520 and (CS 3220 or CS 3250 or CS 3260) and University Advanced Standing

Looks at issues involved in actually implementing a DBMS. Students will implement a relational DBMS. Features of the DBMS include project, select and join, indexing, B+ trees, parsing and query optimization. Lab access fee of \$35 for computers applies.

CS 4230**Software Testing and Quality Engineering****3:3:0** **Fall**

* Prerequisite(s): CS 2450, one of (CS 3250 or CS 3260 or CS 3270 or CS 3370), ECE 3710, and University Advanced Standing

Provides a comprehensive exploration of strategies for testing computer systems. Includes unit testing, system testing, developing software testing organization, and establishing software Total Quality Management (TQM) programs. Students will conduct system tests of software packages. \$35 course fee for computers applies.

CS 4260**Digital System Simulation****3:3:0** **On Sufficient Demand**

* Prerequisite(s): CS 3060, (one of 3250, 3260, 3270, or 3370), ECE 3710, and University Advanced Standing

Introduces simulation of the methods used to study the behavior of digital systems. Includes the study of discrete simulation models, queuing theory, the generation of random numbers and varieties, and stochastic processes. Compares popular simulation languages and commercially available simulation tools. Describes approaches to design of simulation experiments and the analysis of experimental data. Lab access fee of \$35 for computers applies.

CS 4380**Advanced High Performance Computer Architecture****3:3:0** **Fall**

* Prerequisite(s): CS 3060, (CS 3370 Recommended), and University Advanced Standing

Presents theory and concepts of high-performance computer architectures. Includes digital logic, buses, registers, ALU's, control units, pipelining, parallelism, DASD's, SASD's, RAID, caching, instruction-sets, memory hierarchy, multiprocessing, interconnection via networks. Lab access fee of \$35 for computers applies.

CS 439R**Advanced Current Topics in Computer Science****1 to 3:1 to 3:0** **On Sufficient Demand**

* Prerequisite(s): Department approval and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in computer science. Varies each semester depending upon the state of technology. A maximum of 6 hours may be counted toward graduation without CS Department approval. Lab access fee of \$35 for computers applies.

Course Descriptions

CS 4400

Software Engineering II

3:3:0

Fall

* Prerequisite(s): CS 2450, CS 2600, CS 3520, and (CS 3250 or CS 3260 or CS 3270 or CS 3370), and University Advanced Standing

* Prerequisite(s) or Corequisite(s): CS 3450

Covers principles and practices of early phases of software development life cycle. Studies software requirements elicitation, analysis, and design. Includes in-depth, practical study of at least one major software development approach as applied to a realistic organizational systems problem. Explores requirements definition, analysis including prototyping, functional and nonfunctional requirements specification, legacy systems, and architecture patterns. Lab access fee of \$35 for computers applies.

CS 4440

Applied 3D Computer Graphics

3:3:0

* Prerequisite(s): CS 2420 with a C or better and (CS 3220 or CS 3250 or CS 3260 or CS 3270 or CS 3370 or CS 339R), and University Advanced Standing

Presents theory and implementation concepts of 2D and 3D computer graphics as used in areas such as computer games, movie special effects, scientific visualization and art. Focuses on the development of applications using an existing cross-platform graphics library rather than on the development of a graphics library. Lab access fee of \$35 for computers applies.

CS 4450

Analysis of Programming Languages

3:3:0

Fall

* Prerequisite(s): CS 3240, (one of 3250, 3260, 3270 or 3370) and University Advanced Standing

Offers the mature student an in-depth understanding of the design and implementation of programming languages. Criteria for evaluating programming languages are established as a context for comparing both traditional and current popular languages. Includes the evolution of programming languages, syntax analysis, the concept of binding, type checking, static and dynamic scoping, control structures, subprograms and parameter passing methods, concurrency, and exception handling. Explores the functional programming paradigm in-depth. Includes programming assignments in at least two different programming languages, at least one of which being a functional language such LISP, Scheme, ML, or Haskell. Lab access fee of \$35 for computers applies.

CS 4470

Artificial Intelligence

3:3:0

Fall

* Prerequisite(s): CS 3240, CS 3310, CS 3320, and (CS 3250 or CS 3260 or CS 3270 or CS 3370), and University Advanced Standing

Presents theory, organization, concepts, and principles of artificial intelligence methodologies including neural networks, expert systems, machine learning algorithms, and genetic algorithms. Lab access fee of \$35 for computers applies.

CS 4480

Digital Image Processing and Computer

3:3:0

Spring

* Prerequisite(s): CS 2300, CS 2420, CS 3320, and University Advanced Standing

Prepares students for creating software solutions in the multimedia market of today and into the future. Covers digital sampling of analog signals, basic image processing in the spatial domain and frequency domain, edge and line detection, photo enhancement, feature extraction, and object recognition. May be delivered online. Lab access fee of \$35 for computers applies.

CS 4490

Compiler Construction

3:3:0

Spring

* Prerequisite(s): CS 4380, CS 4450, and University Advanced Standing

Studies theory, analysis and design of class developed compiler. Requires completion of a program level assessment test. Course fee of \$27 for Materials/testing applies. Lab access fee of \$35 for computers applies.

CS 4500

Advanced Topics in Database

3:3:0

Spring

* Prerequisite(s): (CS 3520 or INFO 3410) and University Advanced Standing

Covers transaction processing, concurrency control techniques, database recovery techniques, database security and authorization, database integrity, distributed databases and client-server architectures, load balancing, data warehousing, data mining, database machines, mobile database, multimedia database, GIS, genome data management, data fragmentation, data encryption, locking, and deadlock. Lab access fee of \$35 for computers applies.

CS 4550

Software Engineering III

3:3:0

Spring

* Prerequisite(s): CS 4400, CS 4230, and University Advanced Standing

Senior-level, capstone project experience course. Requires operating as part of a high performance team. Includes completing the design and implementation of a large-scale software development project. Combines major milestone presentations to project clients, completing a portfolio of project-related artifacts, and offer an evaluation of the project and team experience. Requires students to take a program level assessment. Course fee of \$27 for Materials/testing applies. Lab access fee of \$35 for computers applies.

CS 4610

TCP/IP Internet Architecture

3:3:0

Fall

* Prerequisite(s): CS 2690 and University Advanced Standing

Provides theoretical, practical, administrative perspectives of the TCP/IP protocol and its use with the Internet. Includes coverage of IPv4, IPv6, TCP, OSPF and related protocols, IP addressing, subnetting issues, and domain name services are also covered. Lab access fee of \$35 for computers applies.

CS 4620

Data Mining

3:3:0

On Sufficient Demand

* Prerequisite(s): CS 3520 and University Advanced Standing

Introduces the process of knowledge discovery and the basic theory of automatic extracting models from data, validating those models, solving the problems of how to extract (mine) valid, useful, and previously unknown interesting patterns from a source (database or web) which contains an overwhelming amount of information. Explains various models (decision trees, association rules, linear model, clustering, bayesian network, neural network) and how to apply them in practice. Algorithms applied include searching for patterns in the data, using machine learning, and applying artificial intelligence techniques. Teaches how to implement several relevant algorithms and use existing tools to mine real-world, business driven databases. Lab access fee of \$35 for computers applies.

CS 4670

Undergraduate Research Project for Networking Specialization

3:3:0

Spring

* Prerequisite(s): CS 3660, CS 4610, and University Advanced Standing

Creates a system suitable for presentation and defense including project proposal, management plan, system design documentation, relevant testing and benchmarks, and final written and oral reports. Includes system design, systems integration and systems management. Encourages open source and community service projects. Requires completion of a program level assessment test. Course fee of \$27 for Materials/testing applies. Lab access fee of \$35 for computers applies.

CS 4690

Distributed Internet Application Development

3:3:0

Spring

* Prerequisite(s): CS 3660, CS 3670, and (CS 3250 or CS 3260 or CS 3270 or CS 3370), and University Advanced Standing

Provides significant team experience building software solutions that span large heterogeneous networks (e.g., Internet, corporate VPNs). Includes heterogeneous operating systems (e.g., Windows and Linux), databases (e.g., MySQL and MS SQLServer), service architectures (e.g., .Net and ORB), remote objects, remote services, and data exchange (e.g., SOAP and JSON). Requires completion of a program level assessment test. May be delivered hybrid. Lab access fee of \$35 for computers applies.

CS 4770

Software Development for Robotics

3:3:0

On Sufficient Demand

* Prerequisite(s): CS 3370 and University Advanced Standing; CS 4470 recommended

Teaches students through hands on development the intricacies of programming robots such as autonomous vehicles and/or industrial manufacturing robots. Includes behavior based programming, intelligent agents, low level device drivers, sensor calibration and processing, real time programming requirements, motion planning and navigation, and machine learning. Lab access fee of \$35 for computers applies.

CS 479R**Advanced Current Topics in Computer Science****1 to 3:0 to 3:0 to 12 On Sufficient Demand**

* Prerequisite(s): Department Approval and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in computer science. Varies each semester depending upon the state of technology. May be repeated for a maximum of 6 credit hours toward graduation without prior written CS Department approval. Lab access fee of \$35 for computers applies.

CS 481R**Internship****1 to 8:0:5 to 40 Fall, Spring, Summer**

* Prerequisite(s): CS 3240, Instructor Approval, and University Advanced Standing

Provides opportunity to use work experience to add to educational background and academic experience. A maximum of 3 credit hours may be counted towards graduation without prior written CNS Department approval. May be graded credit/no credit.

CS 489R**Undergraduate Research Project****2 to 6:2 to 6:0 On Sufficient Demand**

* Prerequisite(s): Department approval and University Advanced Standing

Combines and integrates concepts, methodologies, and skills developed in previous Computer Science course work. Studies the specification, analysis, design, implementation, and completion of a complex and comprehensive project. Requires a project/portfolio using project management techniques. A maximum of 3 hours may be counted towards graduation without prior written Computer Science Department approval. Lab access fee of \$35 for computers applies.

CS 491R**Independent Study****1 to 6:0 to 6:0 to 18 On Sufficient Demand**

* Prerequisite(s): Prior written Department Chair approval and University Advanced Standing

Offers independent study as directed by a faculty advisor in reading, individual projects, etc. Varies each semester depending upon the state of technology. A maximum of 3 credit hours may be counted towards graduation without prior written Department approval. Lab access fee of \$35 for computers applies.

CS 496R**Senior Seminar****1 to 3:0 to 3:0 to 12 On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

Presents current state-of-the-art and/or best-practices topics in a seminar format. A maximum of 3 credits will count towards graduation. Lab access fee of \$35 for computers applies.

CS 6100**Database Management System Construction****3:3:0 Spring**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Explores issues associated with implementing a DBMS. Provides experience designing and implementing a relational DBMS with features such as projection, select and join, indexing, B+ trees, and parsing. Examines database performance and implements query optimization.

CS 6150**Advanced Algorithms****3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Explores applications and tradeoffs of state of the art algorithms in parallel/concurrent programming, data search, graphics, graph theory, data structures, mathematical programming, machine reasoning, machine learning, network flow, and other domains. Applies both theory and practice to various projects with a focus on concurrent/parallel programming.

CS 6300**Software Engineering Leadership****3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Prepares students to be software project leaders. Evaluates modern software processes and project management. Identifies important roles in software projects and their contribution to project success. Explores interaction of business needs and project development.

CS 6400**Modern Databases****3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Evaluates recent trends in database technology, including the history of NoSQL, NoSQL aggregate data, distribution models, and NoSQL consistency. Discusses parallel data analysis, mapReduce, and the challenge of big data 7 V's issues. Explores technologies that compliment big data, including MPP, data mining, cloud computing, data capture, data curation, data visualization, real-time analytics, concurrency and transaction management in a distributed environment, and future trends of modern database technology.

CS 6470**Machine Learning****3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Explores the theory and algorithms of machine learning. Discusses and implements concept learning, decision tree learning, map learning, optimal classifiers, naive Bayes classifier, K-nearest neighbor, radial basis functions, learning sets of rules, and reinforcement learning.

CS 6500**Software Architecture****3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Evaluates software architecture and the high level design of large scale software systems. Explores common architectural styles and patterns. Teaches techniques of documenting and assessing software architectures. Teaches characteristics of software architecture evolution. Evaluates several large-scale software architectures.

CS 6510**Design and Simulation of Operating Systems****3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Analyzes current topics in operating systems design and simulation. Covers modern computer architecture; several types of memory management; current scheduling algorithms for multiple processes; disk management; virtual memory and interprocess communication.

CS 6600**Graduate Project I****3:3:0**

* Prerequisite(s): CS 6300, CS 6510, CS 6400

Teaches the design and development of a walking skeleton with students participating in all aspects of software development, including: requirements elicitation, architecture, design, implementation, testing, and deployment. First semester of a two-semester capstone course.

CS 6610**Graduate Project II****3:3:0**

* Prerequisite(s): CS 6600

Guides through completion and delivery of the large-scale system started in CS 6600. Delivers appropriate system documentation. Teaches the writing and execution of system tests that ensure a high quality system. Must be taken immediately after CS 6600.

CS 6620**Advanced Data Mining and Visualization****3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program; and (CS 3520 or the Departmental Approval)

Explores advanced concepts of data mining and knowledge discovery including sequence mining, audio video mining, and text mining. Analyzes, designs, develops, and evaluates data mining techniques and tools, including data preprocessing, data characterization and comparison, decision trees, association rule mining in large databases, classification and prediction. Uses clustering and cluster analysis and statistical modeling, advanced methods and applications, extracting meaningful patterns from massive datasets using methods such as neural networks and machine learning algorithms.

Course Descriptions

CS 6700 **Advanced Mathematics for Computer Science** **3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Solves computer science problems using advanced mathematical models. Applies calculus functions of multiple variables, linear equations, matrix algebra, determinants, Gaussian elimination, eigenvalues, linear programming, and finite-state Markov chains.

CS 6730 **Advanced Embedded Systems Engineering** **3:3:0**

* Prerequisite(s): CS 6510

Provides a hands-on design experience of software design at the system layer where hardware meets software. Explores embedded computing platforms, interacting with the external world, real-time operation, constraints and optimization, and other techniques which are important for building embedded systems that work in the real world. Applies design/implementation/debugging of embedded functionality through a series of projects and homework exercises.

CS 6800 **Computer Graphics** **3:3:0**

* Prerequisite(s): Acceptance into the Master of Computer Science program

Examines both the theory and implementation of modern 3D computer graphics, as well as its application in such areas as computer gaming, special effects, and virtual/augmented reality. Utilizes a modern graphics library. Investigates recent advances from the literature. Provides real-world experience with a 3D graphics engine.

Dance (DANC)

DANC 1010 **FF** **Dance as an Art Form** **3:3:0** **Fall, Spring, Summer**

For students with an interest in multi-cultural dance and movement expression. Studies the different ways in which world cultures are expressed through dance and movement. Overviews dance history and traces the evolution of dance as an art form. Examines the art and craft of dance making, dance as an expression of culture and community. Explores dance as artistic expression in 20th Century America. Includes guest lecturers, demonstration, and studio experiences.

DANC 1100 **Beginning Ballet** **1:0:2** **Fall, Spring**

For all students without previous ballet experience. Emphasizes ballet discipline, develops posture, alignment, and muscular control to improve health and appearance of physical body.

DANC 1160 **GF** **Music for Dancers** **1:0:3** **Spring**

Presents a fundamental approach to the basic elements of music with an emphasis on its relationship to dance. Studies simple and complex rhythmic patterns, rhythmic analysis of select world music styles (African, Eastern European, and American Funk rhythms), vocalizing, instrumentation, score reading, musical structure, and compositional principles. Includes vocal, instrumental, and movement participation; lecture; writing; and discussion.

DANC 1200 **Beginning Modern Dance** **1:0:2** **Fall, Spring**

Gives students experience in modern dance technique, emphasizing locomotor skills and movement expression. Introduces elements of dance, time, space, and energy.

DANC 127R **Ballet Technique I** **3:1:6.5** **Fall, Spring**

For intermediate level ballet students. Requires ability to handle the varying technical difficulties of classical ballet. Includes theories from Soviet, French, Italian, American, English, and Danish schools. Provides hands-on experience in barre and center floor work to increase strength, flexibility. Emphasizes body alignment and correct placement. Prepares students for a more intensive study in ballet. Does not fulfill a dance major requirement. May be repeated for a total of 18 credits. Course Lab fee of \$150 for support applies.

DANC 1330 **Studio Workshop Creative Process in Dance** **1:5:1.5** **On Sufficient Demand**

A multi-disciplinary approach to the creative process in dance. Overviews the creative process and explores the development of individual artistry and personal voice in dance. Examines how the creative process in other disciplines informs creative work in dance. Includes participation and lecture.

DANC 141R **Introduction to Modern Dance Technique and Theory** **2:1:3** **Fall, Spring**

For students desiring to increase their physical skills in dance technique and performance technique. Introduces principles and concepts that govern human movement. Emphasizes development of strength, flexibility, coordination, core support, and movement expressiveness. Includes aspects of composition, improvisation, and performance as they relate to technique. Develops foundational skills in modern dance technique. Prepares students for more intensive study. Does not fulfill a dance major requirement. May be repeated for a total of 6 credits toward graduation.

DANC 143R **Modern Dance Technique and Theory I** **3:1:6.5** **Fall, Spring, Summer**

* Prerequisite(s): Audition

First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation. Course Lab fee of \$150 for support applies.

DANC 144R **Modern Dance Technique and Theory I** **3:1:6.5** **Spring, Summer**

* Prerequisite(s): DANC 143R

First level modern dance technique for Dance majors. Focuses on development of solid foundational skills in modern dance technique and theory that prepare the student for an intensive major program. Emphasizes the development of strength, flexibility, core support, coordination, kinesthetic awareness and memory, and movement expressiveness. Includes experience in improvisation and composition as a means of understanding and applying technical skills in performance settings. May be repeated for a total of six credits toward graduation. Course Lab fee of \$150 for support applies.

DANC 1500 **Beginning Jazz Dance** **1:0:2** **Fall, Spring**

Gives students experience in jazz dance including rhythms, style, and jazz techniques. Includes basic jazz terminology.

DANC 1510 **Intermediate Jazz Dance** **1:0:3** **Fall, Spring**

* Prerequisite(s): Instructor Approval

For students who have fundamental dance skills and basic jazz techniques. Teaches intermediate jazz technique, style and rhythm. Increases coordination, stamina, strength and flexibility through appropriate principles of jazz training.

DANC 1520 **Folk Dance I** **1:0:2** **On Sufficient Demand**

Presents music, dance steps, and styles of folk dances from different countries. Teaches basic dance formations, positions, and terminology.

DANC 1530 **Folk Dance II** **1:0:2** **On Sufficient Demand**

* Prerequisite(s): DANC 1520

Acquaints students with intermediate level folk dances from around the world, including steps, styling, music and costumes. Discusses cultural characteristics that are expressed through folk dance.

DANC 1540
Clogging I
1:0:2 **On Sufficient Demand**

Teaches basic steps, styling and history of clogging. Includes dances and freestyle clogging choreography.

DANC 1550
Clogging II
1:5:1.5 **On Sufficient Demand**
 * Prerequisite(s): DANC 1540 or equivalent experience

Teaches buck-style clogging and steps of complex rhythm and structure. Includes upper body movement patterns and emphasizes total body coordination. Examines contemporary and historical trends in clogging.

DANC 1560
African Dance I
1:0:2 **Fall, Spring**

Explores traditional movements and rhythms from Central and West Africa and is accompanied by live drumming. Focuses on the development of solid foundational skills in African dance technique. Emphasizes the cultural significance of various dances and rhythms as well as the influences of the African aesthetic in contemporary dance and culture. Includes participation, video, and guest instructors from Africa. Course fee of \$40 for support applies.

DANC 1580
Tap Dance I
1:0:2 **On Sufficient Demand**

Introduces basic steps and rhythms of tap dance. Reviews the history of this American theatrical dance form.

DANC 1590
Hip Hop Dance I
1:0:2 **Fall, Spring, Summer**

Explores a variety of Hip-hop styles and moves to the latest music. Introduces students to fundamental dance techniques. Discusses Hip-hop as a cultural movement.

DANC 1600
Hip Hop II
1:0:3 **Fall, Spring**
 * Prerequisite(s): Previous Hip-Hop dance experience and Instructor Approval

For all students interested in developing intermediate/advanced skills in Hip-Hop. Explores Hip-Hop through different styles, across the floor combinations, break dancing, and in-class performances. Broadens the students' understanding of this fun, loose, upbeat, and energetic style of dance and culture.

DANC 1610
Dance Conditioning
1:5:2.5 **Fall, Spring**

For dance students enrolled in modern dance, ballet, jazz, or ballroom dance classes and for students interested in dance-specific conditioning. A beginning course in dance conditioning. Covers theory and practice. Emphasizes body balancing in strength, flexibility and endurance training supported by knowledge of basic principles of anatomy and biomechanics. Includes stress management, nutrition, body image, somatotypes, and body connectivity work.

DANC 1620
Polynesian Dance I
1:0:3 **Fall**

Explores basic forms of authentic Polynesian dance with a focus on the dances of Tonga, New Zealand, Tahiti and Hawaii. Teaches the origins of the Polynesian people, their "tapu" systems, culture, religions, musical instruments and legends through movement classes, research, discussion and video. Develops understanding of Polynesian dance and the sacredness of this beautiful art form.

DANC 1700
American Social Dance I
1:0:2 **Fall, Spring, Summer**

For students with no prior American Social Dance experience. Teaches beginning (Bronze) level patterns of American Social Dance including Foxtrot, Triple Swing, Waltz, and Cha Cha. Emphasizes, on a beginning level, correct rhythm, poise, footwork and foot positions, dance position, and etiquette. Successful completers will have a good general knowledge of Bronze level curriculum. Course fee of \$10 for practical experience applies.

DANC 1710
International Ballroom Dance I
1:0:2 **Fall, Spring, Summer**

For students seeking ballroom dance experience. Teaches beginning (Bronze) level patterns of International Ballroom Dance including Waltz, Quickstep, and Tango. Introduces correct rhythm, poise, footwork, foot positions, dance position, posture, and leading and following. Successful completers will have a good general knowledge of Bronze level curriculum. Course fee of \$10 for practical experience applies.

DANC 1720
Latin Ballroom Dance I
1:0:2 **Fall, Spring, Summer**

For students seeking Latin Ballroom Dance experience. Teaches beginning (Bronze) level patterns of International Style Latin Rumba, Samba, and Cha Cha. Introduces correct rhythm, poise, footwork, and foot positions. Successful completers will have a good general knowledge of Bronze level curriculum. Course fee of \$10 for practical experience applies.

DANC 1780
Country Western Dance I
1:0:2 **On Sufficient Demand**

Teaches Western Swing, Line Dances, Texas Two-Step, Cotton Eyed Joe, Schottische, and Heel Toe polka. Stresses rhythm, dance with a partner, and developing a country western dance style. Uses lecture, demonstration, and active class participation.

DANC 1790
Country Western Dance II
1:0:2 **On Sufficient Demand**
 * Prerequisite(s): DANC 1780

Teaches Pony Swing, East Coast Swing, Waltz, Two-Step, and Line Dances. Stresses rhythm, dance with a partner, and developing a country western dance style. Uses lecture, demonstration, and active class participation.

DANC 2110
Orientation to Dance FF
3:2:2 **Fall, Summer**

For students interested in pursuing a career in dance. Introduces students to the discipline of dance as an academic as well as artistic field of study. Examines various dimensions of the discipline such as performance, teaching, choreography, dance science/medicine, movement analysis and fundamentals, dance criticism, interdisciplinary collaboration, and current issues. Includes lecture, readings, discussion, writing and participation. Prepares the student entering the Dance emphasis.

DANC 221R
Pointe II
1:0:3 **Fall, Spring**
 * Prerequisite(s): By audition only.

For dance majors and other students with an interest in the professional dance world. Emphasizes women's pointe work. Builds strength and control necessary for further advanced study. Explores various music components necessary for development of virtuosity en pointe. Completers will have skills necessary to progress to advanced pointe class. Includes guest choreographers and teachers. May be repeated for a total of six credits toward graduation. Course Lab fee of \$60 for support applies.

DANC 222R
Ballet Technique and Theory II for Men
1:0:3 **Fall, Spring**
 * Corequisite(s): DANC 227R or DANC 327R

Focuses on men's ballet technique and prepares men dance majors for the professional world. Emphasizes jumps and technical abilities specifically for men. Builds strength and control necessary for further Intermediate study. Explores the development of musicality and epaulement as it relates to artistic interpretations. Successful completers will be prepared to perform simple men's variations from the classical repertoire. May be repeated for a total of four credit hours.

DANC 2250
Character Dance I
1:0:3 **Fall**
 * Prerequisite(s): Intermediate equivalent skill level to be determined by audition

First of a two-semester sequence. Must be taken in sequence. For ballet students at an intermediate or higher skill level. Studies theatre dance based on ethnic styles within ballet performance context.

DANC 2260
Character Dance II
1:0:3 **On Sufficient Demand**
 * Prerequisite(s): DANC 2250

Second of a two-semester sequence course. Must be taken in sequence. For ballet students at an intermediate or higher skill level. Studies theatre dance based on ethnic styles within ballet performance context.

Course Descriptions

DANC 227R

Ballet Technique II

3:1:6.5 Fall, Spring, Summer

* Prerequisite(s): Instructor Approval

For intermediate level ballet students. Requires ability to handle the varying technical difficulties of classical ballet. Includes theories from Soviet, French, Italian, American, English, and Danish schools. Provides hands-on experience in barre and center floor work to increase strength, flexibility, and artistic interpretation. Emphasizes body alignment and correct placement. Successful completers should be fully prepared to participate in an upper division classical ballet course. May be repeated for a total of 18 credits. Course Lab fee of \$150 for support applies.

DANC 2330

Improvisation

1:0:3

Spring

For students interested in experiencing and developing skills in physical inventiveness and performance intuition and immediacy. Provides guided exploration in the elements of dance for the creative development of personal movement vocabulary, spontaneous group interaction, and the ability to recall and give form to movement generated improvisationally.

DANC 2340

Composition

2:1:3

Fall

* Prerequisite(s): DANC 2330

* Prerequisite(s) or Corequisite(s): DANC 143R, or DANC 144R, or Instructor Approval

For students interested in experiencing and developing skills in dance composition. Includes conceptual and practical exploration of the basic elements of dance in both solo and group forms. Investigates the relationship between choreographic intention, movement invention, content, and form/structure. Introduces choreographic devices and forms and encourages experimentation in the choreographic process. Emphasizes the process of creating and giving form to a personal movement vocabulary.

DANC 2350

Dance and Technology

2:1:2

Spring

Explores fundamental approach to Dance for Camera in its various forms. Includes documentary-style videos as well as the creation of dances made specifically for the screen. Explores three-dimensional movement through the two-dimensional medium of the camera. Examines how editing choices creates dance composition in video form. Discusses aesthetic and historical representations of the body through media. Covers choreography for the camera, video camera basics, elements of a video shoot, and video-editing while preparing the student for further integration of dance and technology, such as the use of video projection during live dance performance. Provides the necessary skills to professionally produce video resumes. Lab access fee of \$10 for computers applies.

DANC 2400

Teaching Through Movement in Education

2:1:2

Fall, Spring

Introduces the philosophy, educational benefits, and teaching methods of dance and movement education for children. Teaches movement as an effective and motivational medium for building self awareness, expression, and discipline. Develops skills in the psychomotor, affective, and cognitive domains. Places emphasis on learning through problem-solving and on integrative classroom learning. Addresses the Utah State Core Curriculum in Dance for the elementary school.

DANC 243R

Modern Dance Technique and Theory II

3:1:6.5

Fall

* Prerequisite(s): by audition

Second level modern dance technique for Dance majors. Teaches fundamental body and performance technique. Emphasizes locomotor skills and movement progressions as well as elements of body, effort, shape, space, and time. May be repeated for 9 credits toward graduation. Course Lab fee of \$150 for support applies.

DANC 244R

Modern Dance Technique and Theory II

3:1:6.5

Spring

* Prerequisite(s): DANC 243R

Second level modern dance technique for Dance majors. Focuses on development of technical and performance skills in modern dance. Includes concepts of applied anatomy and kinesiology as well as Bartenieff Fundamentals. Emphasizes clarity of movement intent and interpretation in movement progressions. May be repeated twice for 9 credits towards graduation. Course Lab fee of \$150 for support applies.

DANC 247R

Repertory

1:0:3

Fall, Spring

* Prerequisite(s): By Audition

* Corequisite(s): DANC 143R, DANC 144R, DANC 243R, or DANC 244R

For students with advanced technical, performance, and artistic skills in Modern Dance interested in performing professional choreographic works. Emphasizes study and performance of guest and faculty choreography. Introduces students to choreographic approaches of historical and current works. Includes performance in formal and informal concerts. Repeatable for a maximum of three credit hours.

DANC 248R

Special Topics In Dance

2:1:2

Fall, Spring

Provides students an in-depth exploration of specialized dance forms outside of traditional course offerings, with an emphasis on World Dance forms such as Polynesian, Classical Indian, Argentine Tango, Capoeira, Balinese and Tibetan Folk Dance. Focuses on learning specific dance forms through active participation. Includes integration of theoretical, historical and social concepts which deepen the student's understanding of the context in which the dance form was practiced historically and is practiced today. May be repeated for a total of 6 credits towards graduation.

DANC 250R

Advanced Jazz Dance

2:1:3.5

Fall, Spring

* Prerequisite(s): Instructor Approval

Explores advanced level jazz technique, performance and composition skills. Includes preparation for the professional audition through movement experiences, lecture with group discussions, video, guest teacher(s), and group projects. May be repeated for a total of six credit hours.

DANC 2560

African Dance II

1:0:3

On Sufficient Demand

* Prerequisite(s): DANC 1560 or previous African Dance experience

Explores dance traditions of West and Central Africa, as well as other countries in the African Diaspora, including Brazil, Cuba, and Haiti. Focuses on strong foundational skills in various African dance styles and emphasizes the cultural and historical significance of the various dances and rhythms. Explores more complex movement and rhythmic structures than African I and challenges the students' physical stamina. Accompanied by live drumming. Course fee of \$50 for support applies.

DANC 265R

Fundamentals of Movement

2:1:2

Fall

* Prerequisite(s): DANC 1200 recommended

For students and community members who want to move with greater ease, efficiency, and sense of connection in the body. Emphasizes body awareness and developmental human movement patterning. Makes application to the areas of dance, sport, theater, somatics, performance, and psychology. Includes Bartenieff Fundamentals and basic principles of Laban Movement Analysis. Develops integrated and harmonious movement patterns in the body. May be repeated for four credits total toward graduation.

DANC 2670

Introduction to Laban Studies

2:1:2

Spring

* Prerequisite(s): DANC 265R

For all dance students and others interested in understanding how the components of movement combine to create functional and expressive movement statements. Introduces the basic principles of Laban Movement Analysis (LMA). Presents a comprehensive system for analyzing the complexity of human movement based on the theories of Rudolph Laban and Irmgard Bartenieff. Utilizes physical performance and observation methods. Emphasizes the process of perceiving and making meaning of human movement from a variety of contexts.

DANC 270R

American Social Dance II

1:0:3 Fall, Spring, Summer

* Prerequisite(s): Instructor Approval

For students with Bronze level American Social Dance experience or equivalent. Teaches intermediate (Silver) level patterns of American Social Dance including Foxtrot, Waltz, Triple Swing, Viennese Waltz, West Coast Swing, and Cha Cha. Emphasizes, on an intermediate level, correct rhythm, poise, footwork, and foot positions, dance position, and etiquette. Successful completers will have a good general knowledge of Silver level curriculum. May be repeated for a maximum of 2 credits toward graduation. Course fee of \$20 for practical experience applies.

DANC 271R

International Ballroom Dance II

1:0:3 Fall, Spring, Summer

* Prerequisite(s): Instructor Approval

For students with Bronze level International Ballroom Dance experience. Teaches the intermediate (Silver) level patterns of International Style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on an intermediate level, rhythm, poise, footwork, foot positions, dance position, alignment, rise and fall, body flight and correct leading and following. Successful completers will have a good general knowledge of Silver level curriculum. May be repeated for a total of two credits toward graduation. Course fee of \$20 for practical experience applies.

DANC 272R

Latin Ballroom Dance II

1:0:3 Fall, Spring, Summer

* Prerequisite(s): Instructor Approval

For students with Bronze level Latin Ballroom Dance experience or equivalent skill level. Teaches the intermediate (Silver) level patterns of International Style Rumba, Samba, Cha Cha, and Paso Doble. Emphasizes, on an intermediate level, rhythm, poise, footwork, foot positions, dance position, alignment, and correct leading and following. Successful completers will develop a good general knowledge of Silver level curriculum. May be repeated for a total of two credits toward graduation. Course fee of \$20 for practical experience applies.

DANC 276R

Ballroom Dance Company Back Up Team

1:0:3 Fall, Spring, Summer

* Prerequisite(s): By audition only.

For students with or without prior ballroom dance team experience. Teaches American and International techniques as a performance discipline. Includes choreography, performances, demonstrations, competition. Also teaches fundamentals of formation team dancing, stage performance and team competition. Requires individual practice. Prepares dancers for audition to touring team. May be repeated for up to four credits toward graduation. Course fee of \$50 for specialized clothing applies.

DANC 281R

Internship in Dance I

1 to 3: 5:2.5 to 12.5 Fall, Spring, Summer

* Prerequisite(s): Departmental Approval

Provides an opportunity for students to receive college credit and explore career options in dance by working in dance-related fields. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 6 credits towards graduation. May be graded credit/no credit.

DANC 3140

Dance Production and Lighting

2:1:2 Spring

* Prerequisite(s): University Advanced Standing

Introduces essential aspects of dance production. Focuses on theory and practice of lighting for dance. Includes consideration of costuming, set design, sound design, backstage organization, make-up for dance, promotion, and programming. Includes lecture and lab experience.

DANC 3150

Music for Ballet Dancers

2:1:2 Fall

* Prerequisite(s): University Advanced Standing

Presents an in-depth approach to music with strong emphasis on its relationship to ballet. Includes concepts of rhythm, music notation, melody, harmony, texture, instrumentation, score reading, structure, compositional procedure, and music history. All elements covered emphasize their relationship to Ballet technique class, choreography, and performance. Course fee of \$50 for support applies.

DANC 3160

Dance Accompaniment

2:1:2 Spring

* Prerequisite(s): DANC 1160 and University Advanced Standing

Designed for students interested in musical accompaniment for dance. Builds on knowledge and skills developed in DANC 1160. Explores rhythmic structures and its components in music and dance, composing a percussion score for dance, and building percussion instruments. Emphasizes practical skills in performing simple and complex rhythmic patterns on drum. Includes participation, writing, lecture, and discussion.

DANC 321R

Pointe III

1:0:3 Fall, Spring

* Prerequisite(s): Advanced equivalent skill level to be determined by audition.

* Corequisite(s): DANC 327R

For women dance majors and others with an interest in the professional dance world. Emphasizes pointe. Builds strength and control. Explores various styles from classical and contemporary repertoire. Women develop successful virtuosity en pointe. Completers will have skills necessary to perform at an advanced technical skill level and have skills necessary to perform variations from classical repertoire. Includes guest teachers. May be repeated for a total of six credits toward graduation. Course Lab fee of \$60 for support applies.

DANC 322R

Ballet Technique and Theory III for Men

1:0:3 Fall, Spring

* Corequisite(s): DANC 327R or DANC 427R

Focuses on men's ballet technique and prepares men dance majors for the professional world. Emphasizes jumps and technical abilities specifically for men. Builds strength and control necessary for further study. Explores the development of musicality and epaulement as it relates to artistic interpretations. Successful completers will be prepared to perform men's variations from the classical repertoire. May be repeated for a total of four credit hours.

DANC 327R

Ballet Technique III

3:1:6.5 Fall, Spring

* Prerequisite(s): DANC 227R or Advanced equivalent skill level to be determined by audition

For ballet students at an advanced skill level who are able to handle the varying technical difficulties of classical ballet. Provides hands-on experience in barre and center floor work to increase strength and flexibility. Emphasizes the development of musicality as it relates to artistic interpretations. Successful completers will be prepared to participate on a corp de ballet professional performance level. May be repeated for a total of 18 credits toward graduation. Course Lab fee of \$150 for support applies.

DANC 3330

Modern Dance Workshop

2:1:2 Fall

* Prerequisite(s): DANC 2340 and University Advanced Standing

A continuation of DANC 2330 and DANC 2340. Emphasizes the relationship between improvisation and composition in the choreographic process. Focuses on developing fluency in creating and developing content and creating appropriate form for that content. Explores established choreographic forms in both solo and small group settings. Requires some choreographic work outside of class.

DANC 3340

Ballet Choreography

2:1:2 Spring

* Prerequisite(s): DANC 2230, DANC 2340, and University Advanced Standing

* Corequisite(s): (DANC 327R, DANC 427R, or DANC 428R) and (DANC 321R or DANC 421R)

For dance majors desiring ballet emphasis. Investigates and explores the choreographic process with relationship to narration as well as all choreographic concepts. Includes the creation of student works that give shape and form to ideas based on a specific theme or statements. Examines plot, character, and theme as part of the creative process.

DANC 3350

Choreography

2:1:2 Spring

* Prerequisite(s): DANC 3330 and University Advanced Standing

Provides in-depth experience in the choreographic process. Focuses on development of personal voice in choreography and the ability to generate choreographic form intrinsic to thematic content. Explores the use of choreographic forms and devices as means of developing thematic content. Requires intensive exploration of the creative process through imaginative thinking, creating, and crafting in movement.

Course Descriptions

DANC 3400 **XF**

Dance in the Elementary School

2:1:2 **Fall, Spring**

* Prerequisite(s): University Advanced Standing

Introduces the philosophy, educational benefits, and teaching methods of dance for children. Teaches movement as an effective and motivational medium for building self awareness, expression, and discipline. Develops skills in the psychomotor, affective, and cognitive domains. Places emphasis on learning through problem-solving and on integrative learning. Addresses the Utah State Core Curriculum in Dance for the elementary school. Completion of a second course is required to satisfy the fine arts requirements (see Graduation section of catalog).

DANC 341R

Modern Dance Technique and Theory III

3:1:6.5 **Fall**

* Prerequisite(s): By audition

For students interested in building technical, performance, and theoretical understanding and skills in modern dance. Emphasizes body and performance techniques; axial and locomotor skills; total body connectivity movement progressions; increased spacial, rhythmical, and qualitative acuity; risk-taking; and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation. Course Lab fee of \$150 for support applies.

DANC 3420

Dance in the Elementary Schools Practicum

3:2:3 **Spring**

* Prerequisite(s): DANC 3400 and University Advanced Standing

Builds on the methods, strategies, and dance pedagogy studied in the DANC 3400 Dance in the Elementary Schools course. Focuses on the practicum experience in the elementary schools using the Utah Secondary Dance Core Curriculum.

DANC 342R

Modern Dance Technique and Theory III

3:1:6.5 **Spring**

* Prerequisite(s): DANC 341R or by audition

For students interested in building technical, performance and theoretical understanding and skills in modern dance. Expands on the skills and concepts introduced in DANC 341R. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity movement progressions; increased spacial, rhythmical, and qualitative acuity; risk-taking; and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation. Course Lab fee of \$150 for support applies.

DANC 3450

Modern Dance Teaching Methods

3:3:0 **Fall**

* Prerequisite(s): DANC 3400 and University Advanced Standing

For dance majors interested in teaching dance at the secondary and college levels. Introduces methodologies, strategies, ideologies, and philosophies of dance pedagogy based on current research and practices. Emphasizes lesson plan writing using the Utah State Secondary Dance Core Curriculum and the National Dance Standards. Integrates theory and practice through lecture, discussion, writing, and classroom teaching experiences in the college and public school settings.

DANC 346R

Synergy Dance Company

3:0:9 **Fall, Spring**

* Prerequisite(s): Audition required

* Corequisite(s): DANC 143R or DANC 144R or DANC 243R or DANC 244R or DANC 341R or DANC 342R or DANC 441R or DANC 442R

Designed for students to gain more advanced understanding of artistry through the process and performance of student, faculty, and guest choreography in a formal and informal performance settings. Combines participation in technique, performance, composition, and improvisation. Also includes lectures and demonstrations for local schools and other interested groups. May be repeated for a maximum of 9 credits toward graduation. Course Lab fee of \$75 for practical experience applies.

DANC 348R

Special Topics in Dance

1 to 3:0 to 3:0 to 9

* Prerequisite(s): University Advanced Standing and Department Approval

Addresses emerging topics, issues, and developments related to dance. Includes lectures, demonstrations, and studio time for application and evaluation. May be repeated for a maximum of 9 credits toward graduation.

DANC 356G

World Dance Forms

3:2:2 **Spring**

* Prerequisite(s): Matriculation in any Dance major and University Advanced Standing

Explores the richness and beauty of various cultures from around the world through the medium of dance. Teaches students a deeper knowledge and appreciation of various world dance, or multi-cultural dance forms, through participation in movement classes, informal performances, and dance-related cultural events in class, on campus, and in the community. Serves to deepen the student's understanding of the profound relationship between dance and culture, and dance and human existence throughout time through readings, group discussions, interactive assignments, cultural research projects, concert attendance, writing, dancing, singing and playing music. Explores the evolution and dissemination of the various cultural dance forms studied in class. Course Lab fee of \$40 applies.

DANC 3610

Intermediate Dance Conditioning and Injury Prevention

2:1:2 **Spring**

* Prerequisite(s): DANC 1610 and University Advanced Standing

An intermediate course for dance majors that covers the theory and practice of core conditioning principles with specific application to dance. Regularly scheduled conditioning work outs with accompanying lectures, where recognition and appropriate responses to common dance injuries will be discussed.

DANC 3630

Dance History

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 2020, DANC 2110, DANC 356G, and University Advanced Standing

Introduces the art of dance in the Western tradition. Emphasizes the relationship of dance to lineage-based, ancient, medieval, Renaissance, Baroque, Classical, Romantic, and Modern cultures. Explores keystone Western dance history concepts and the work of various recognized dance scholars. Introduces students to a wide range of publications in the field. Includes lecture and movement experiences. Emphasizes skills of critical analysis, synthesis, and interpretation in writing about dance.

DANC 365R

Advanced Fundamentals of Movement

2:1:2 **Fall**

* Prerequisite(s): DANC 265R, DANC 2670, and University Advanced Standing

Continues and deepens the content of DANC 265R. Emphasizes application of principles of Bartenieff Fundamentals to varied movement contexts. Explores the connections between Laban Movement Analysis (LMA) elements of Body, Effort, Shape, and Space and applies the connections to developing increased ease in movement function and liveliness of expression in many movement forms. Develops increased skill and awareness in movement sensation, perception, practice, observation, analysis, prescription, and interpretation. Utilizes LMA symbology. Involves lecture, participation, observation, and written and verbal analysis. May be repeated for 4 credits toward graduation.

DANC 3670

Movement Analysis

3:3:0 **On Sufficient Demand**

* Prerequisite(s): DANC 265R or equivalent, DANC 2670 or equivalent, and University Advanced Standing

An advanced survey course in movement analysis. Focuses on application of the concepts and theories of Laban Movement Analysis in the context of observing, recording, analyzing, and making meaning from human body movement. Includes in-depth study of motif score writing and applying Body, Effort, Shape and Space Harmony paradigms. Utilizes physical performance and written and verbal observation methods. Examines application to disciplines that concern themselves with human movement behavior such as behavioral sciences, theater, communications, human performance, human development, business, and education.

DANC 3680
Dance Kinesiology
4:4:0 **Spring**
 * Prerequisite(s): (ZOOL 1090 or ZOOL 2320) and University Advanced Standing

Studies the neuromusculoskeletal system in practical application to dance. Analyzes demands placed on the dancer's body and identifies how to maximize efficiency and reduce injuries while maintaining requisite aesthetic elements. Includes lecture and lab experiences.

DANC 3690
Motif and Labanotation I
2:2:0 **On Sufficient Demand**
 * Prerequisite(s): DANC 265R, DANC 2670, and University Advanced Standing

Teaches Motif Writing and beginning Labanotation. Expands students' understanding of the written symbol system of Laban Movement Analysis and deepens observation and analysis skills critical for understanding dance and varied manifestations of human movement expression. Relates Motif Writing and Labanotation to dance history and current dance choreography and performance. Includes application of Motif Writing to teaching dance technique, composition, and improvisation. Emphasizes the theory of human movement description and analysis formulated by Rudolph Laban and requires students to both write and read beginning to intermediate level notated scores. Includes lecture, discussion, observation, and participation including reading from score, written and embodied symbology assignments, teaching assignments, and completion of several creative projects.

DANC 370R
American Social Dance III
1:0:3 **Fall, Spring**
 * Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze and Silver American Social Dance courses and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of American Style Foxtrot, Cha Cha, Waltz, Triple Swing, Viennese Waltz, and West Coast Swing. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot position, alignments, rise and fall, partnering, correct leading and following, and etiquette. First semester successful completers will have a general knowledge of Gold level curriculum. Second semester successful completers will have an in-depth knowledge of Gold level curriculum. May be repeated for two credits toward graduation. Course fee of \$30 for practical experience applies.

DANC 371R
International Ballroom Dance III
1:0:3 **Fall, Spring**
 * Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze and Silver International Ballroom Dance courses, and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of International Style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on an advanced level, correct poise, style, rhythm. Also teaches correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, and correct leading and following. First semester focuses on developing a general knowledge of Gold level curriculum. Second semester focuses on developing an in-depth knowledge of Gold level curriculum. May be repeated for a maximum of 4 credits toward graduation. Course fee of \$30 for practical experience applies.

DANC 372R
Latin Ballroom Dance III
1:0:3 **Fall, Spring**
 * Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze and Silver Latin Ballroom Dance courses and for members of the Ballroom Tour Team. Teaches the advanced (Gold) level patterns of Latin Style Rumba, Samba, Cha Cha, Paso Doble, and Jive. Emphasizes, on an advanced level, correct poise, style, and rhythm. Also teaches correct footwork, foot position, alignments, rise and fall, partnering, correct leading and following, amounts of turn, Cuban action, and movement principles. First semester focuses on developing a general knowledge of Gold level curriculum. Second semester focuses on developing an in-depth knowledge of Gold level curriculum. May be repeated for a maximum of 4 credits toward graduation. Course fee of \$30 for practical experience applies.

DANC 3730
American Social Dance Teaching Methods
2:2:0 **Spring**
 * Prerequisite(s): DANC 1700 or equivalent skill level, DANC 270R or equivalent skill level, and University Advanced Standing

For dance majors and other students with an interest in teaching social dance. Focuses primarily on teaching techniques using Bronze level patterns. Emphasizes calling steps. Explores proper music selection and tempo. Includes actual teaching time of peers and a beginning class. Completers should be able to adequately teach social dance in either a formal or informal setting.

DANC 3740
Ballroom Dance Choreography
2:1:2 **Spring**
 * Prerequisite(s): (DANC 270R, DANC 271R, DANC 272R, or Instructor Approval) and University Advanced Standing

Investigates and explores the choreographic process with reference to choreographic concepts. Involves the creation of dance skills that give shape and form to ideas based on a specific theme, style, or statement. Includes Latin, International Ballroom, American Rhythm and Smooth, and Cabaret styles. Explores formation team competition, solo couple competition, formation team stage performance, and solo couple stage performance as part of the creative process.

DANC 3750
Studies in Ballroom Dance Styles
2:2:0 **Fall**
 * Prerequisite(s): ENGL 1010 and University Advanced Standing

Investigates and explores historical ballroom dance styles. Emphasizes the social and cultural context in which ballroom dance is created and performed. Includes career, life style, education, gender, moral and ethical concerns related to ballroom dance issues. Also covers ballroom dance history, evolution, and current trends. Identifies similarities and differences between ballroom dance and other dance forms. Involves discussion, lecture, research, student presentations and participation.

DANC 376R
Ballroom Dance Company Back-up Tour Team
2:0:6 **Fall, Spring**
 * Prerequisite(s): Audition

For students with advanced ballroom dance experience. Teaches American, International Ballroom, and Latin techniques using intermediate and advanced choreography in performance and competitive discipline. Includes choreography, stage performances, competitions, and demonstrations with increased emphasis on dance technique and proper execution of formations. Requires individual practice. Prepares dancers for audition to touring team. May be repeated for eight credits toward graduation. Course fee of \$50 for specialized clothing and materials applies.

DANC 421R
Pointe IV
1:0:3 **Fall, Spring**
 * Prerequisite(s): Advanced equivalent skill level to be determined by audition
 * Corequisite(s): DANC 427R

For women dance majors and other students with an interest in the professional dance world. Emphasizes pointe. Continues to build strength and control through increased complex combinations. Explores advanced levels of styles from classical and contemporary repertoire. Develops virtuosity en pointe. Completers will have skills necessary to perform at a professional technical skill level. Includes guest teachers. May be repeated for a total of six credits toward graduation. Course Lab fee of \$60 for support applies.

DANC 422R
Ballet Technique for Men
1:0:3 **Fall, Spring**
 * Prerequisite(s): Intermediate/Advanced equivalent skill level to be determined by audition.
 * Corequisite(s): DANC 227R or DANC 327R or DANC 427R

Emphasizes jumps, turns and other technical abilities specifically for men. Builds strength and control necessary for performing male variation, particularly from the classical ballet repertoire. Explores the development of musicality as it relates to artistic interpretations. May be repeated for a total of eight credit hours.

Course Descriptions

DANC 423R

Pointe V

1:0:3

Fall, Spring

* Prerequisite(s): DANC 321R or to be determined by audition

* Corequisite(s): DANC 427R or DANC 428R

For women dance majors and other students with an interest in the professional dance world. Emphasizes pointe. In-depth study of styles from classical and contemporary repertoire. Women develop successful virtuosity en pointe. Completers will have skills necessary to perform at an professional technical and artistic skill level and have the advanced experience necessary to pursue a professional career in Dance. Includes guest teachers. May be repeated for a total of six credits toward graduation. Course Lab fee of \$60 for support applies.

DANC 424R

Pas de deux

1:0:2

Fall, Spring

* Prerequisite(s): (DANC 321R or DANC 327R) and (DANC 421R or DANC 427R or DANC 428R); advanced equivalent skill level to be determined by audition.

* Corequisite(s): (DANC 427R or DANC 428R) and (DANC 421R or DANC 423R)

For dance majors and other students with an interest in developing their advanced level technique. Emphasizes work as pairs through tradition styling and classical technique. Explores various pas de deux from classical through contemporary repertory. Includes master guest teachers and study of traditional classical pas de deux choreography. Teaches skills necessary to perform pas de deux from classical repertoire. May be repeated for a total of four credits toward graduation.

DANC 425R

Repertory Ballet Ensemble

3:0:9

Fall, Spring

* Prerequisite(s): Audition required

* Corequisite(s): DANC 327R or DANC 427R

For serious ballet students showing a high level of talent and technical achievement. Explores the development of artistic interpretation as students learn styles of various repertoire works. Prepares students to perform as a competent corps de ballet member. May be repeated for a maximum of 9 credits toward graduation. Course fee of \$50 for specialized clothing applies.

DANC 4260

Ballet Pedagogy

3:2:2

Fall

* Prerequisite(s): DANC 3150 and University Advanced Standing

Emphasizes appropriate teaching methodologies for all levels of ballet technique, pointe and men's class. Develops interpersonal skills as they relate to classroom management. Explores the styles and teaching methodologies of all ballet schoolings/styles to help students develop and construct effective lesson plans and curriculum. Successful completers will be prepared to teach high quality ballet technique classes in the community.

DANC 427R

Ballet Technique IV

3:1:6.5

Fall, Spring

* Prerequisite(s): DANC 327R or advanced equivalent skill level to be determined by audition

* Corequisite(s): DANC 421R

For ballet students at an advanced skill level who are able to handle the varying technical difficulties of classical ballet. Provides experience in barre and center floor work to increase strength and flexibility. Emphasizes the development of musicality as it relates to artistic interpretations. Successful completers will be prepared to participate on a corp de ballet professional performance level. May be repeated for a total of 18 credits toward graduation. Course Lab fee of \$150 for support applies.

DANC 428R

Ballet Technique V

3:1:6.5

Fall, Spring

* Prerequisite(s): DANC 427R or advanced equivalent skill level to be determined by audition

* Corequisite(s): DANC 421R or DANC 423R

For ballet students who successfully audition for Utah Regional Ballet Company at an advanced skill level and artistic skill level who are prepared for the technical difficulties required at a professional level. Provides hands-on experience in barre and center floor work to fully develop the professional artist. Successful completers will be prepared to participate on a professional performance level. May be repeated for a total of 24 credits toward graduation. Course Lab fee of \$150 for support applies.

DANC 429R

Utah Metropolitan Ballet Repertory

3:0:9

Fall, Spring

* Prerequisite(s): Advanced/Professional Skill level; determined by audition

* Corequisite(s): (DANC 421R, DANC 423R) or DANC 427R, DANC 428R

For serious ballet students showing a high level of talent and technical achievement. Explores the development of artistic interpretation as students learn styles of various repertoire works. Successful completers should be qualified to perform as a competent corps de ballet member. May be repeated for a maximum of 9 credits toward graduation. Course fee of \$50 for specialized clothing applies.

DANC 4350

Senior Capstone I

1:1:0

Fall

* Prerequisite(s): DANC 3140 and DANC 3340 or DANC 3350, and University Advanced Standing

The first of two courses designed to prepare senior dance majors with the skills, resources, and portfolio/marketing materials needed to apply for graduate work or professional opportunities in dance. Emphasizes portfolio development and biographical writing, personal web page creation, audition and interview strategies, and dance resources. Includes writing, performance, research, and multimedia work.

DANC 4360

Senior Capstone II

2:2:0

Spring

* Prerequisite(s): DANC 3680 and DANC 4350 and DANC 4880 and (DANC 3340 or DANC 3350 or DANC 3740 with a B- or higher) and University Advanced Standing

Designed for senior dance students as the second course in a capstone sequence. Emphasizes through choreography, performance, and production a synthesis of the knowledge and skills developed in the B.F.A. degree in Dance. Includes writing, collaborative work, discussion, lecture, and intensive studio preparation of choreography.

DANC 441R

Modern Dance Technique and Theory IV

3:1:6.5

Fall

* Prerequisite(s): By audition

An advanced level course for focused students interested in building technical, performance, and theoretical understanding and skills in modern dance. Emphasizes body and performance techniques, axial and locomotor skills, total body connectivity, movement progressions, increased spacial, rhythmical and qualitative acuity, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total towards graduation. Course Lab fee of \$150 for support applies.

DANC 442R

Modern Dance Technique and Theory IV

3:1:6.5

Spring

* Prerequisite(s): DANC 441R or by audition

A capstone technique course for students interested in rigorous technical, performance, and theoretical training. Emphasizes advanced performance sequences and progressions that utilize technical, kinesthetic, and expressive skills. Includes challenging spacial, rhythmical, and qualitative performance skills, risk-taking, and movement commitment. Includes aspects of composition, improvisation, and performance as they relate to technique. May be repeated for up to 9 credits total toward graduation. Course Lab fee of \$150 for support applies.

DANC 4430

Dance Teaching Practicum

3:2:3

Spring

* Prerequisite(s): DANC 3450 and University Advanced Standing

For secondary dance licensure majors or dance majors interested in dance pedagogy. Builds on the methodologies, strategies, ideologies and philosophies of dance pedagogy studied in DNCE 3430. Emphasizes lesson plan and unit development, instruction, and assessment based on the National and Utah State Dance Standards. Focuses on the integration of theory and practice during a practicum experience in the secondary public schools setting. Includes writing, reading, discussion, and participation.

DANC 446R
Contemporary Dance Ensemble
3:0:9 **Fall, Spring**
 * Prerequisite(s): By audition
 * Corequisite(s): DANC 341R or DANC 342R or DANC 441R or DANC 442R

Designed for students with advanced technical, performance, and artistic skills. Provides students interested in further developing their artistry with opportunities to perform the works of professional choreographers in formal and informal settings. Explores a variety of contemporary and historical choreographic approaches. Prepares students for work in a professional modern dance company. May be repeated for a maximum of 9 credits toward graduation. Course Lab fee of \$75 for practical experience applies.

DANC 471R
International Ballroom Dance IV
2:1:2 **Fall, Spring**
 * Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze, Silver and Gold International Ballroom Dance classes and for members of the Ballroom Tour Team. Prepares students to dance, choreograph and compete on a championship amateur level. Teaches the Advanced (Gold-Bar) level patterns of International style Waltz, Quickstep, Tango, Foxtrot, and Viennese Waltz. Emphasizes, on a pre-professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, alignments, rise and fall, partnering, floor craft, body flight, precedes and follows, and correct leading and following. First semester focuses on developing a general knowledge of Gold-Bar level curriculum. Second semester focuses on developing an in-depth knowledge of Gold-Bar level curriculum. May be repeated for a maximum of 8 credits toward graduation. Course fee of \$30 for practical experience applies.

DANC 472R
Latin Ballroom Dance IV
2:1:2 **Fall, Spring**
 * Prerequisite(s): Instructor Approval

For students who have successfully completed Bronze, Silver and Gold International Ballroom Dance classes and for members of the Ballroom Tour Team. Includes preparation to dance, choreograph and compete on a championship amateur level. Teaches the advanced (Gold-Bar) level patterns of Latin style Rumba, Samba, Cha Cha, Paso Doble, and Jive. Emphasizes, on a pre-professional level, correct poise, style, and rhythm. Also teaches and enhances correct footwork, foot positions, Cuban action, alignments, rise and fall, partnering, floor craft, precedes and follows, and correct leading and following. First semester focuses on developing a general knowledge of Gold-Bar level curriculum. Second semester focuses on developing an in-depth knowledge of Gold-Bar level curriculum. May be repeated for a maximum of 8 credits toward graduation. Course fee of \$30 for practical experience applies.

DANC 4740
International Ballroom Dance Teaching Methods
3:3:0 **Fall**
 * Prerequisite(s): DANC 371R, DANC 3730, and University Advanced Standing

Covers technical and theoretical aspects of all basic figures in Waltz, Foxtrot, Quickstep, and Tango such as footwork, amounts of turn and rhythm. Emphasizes correct teaching methods associated with each dance. Prepares students to obtain membership in the Imperial Society of Teachers of Ballroom Dance and to teach professionally.

DANC 4750
Latin Ballroom Dance Teaching Methods
3:3:0 **Fall**
 * Prerequisite(s): DANC 372R, DANC 3730, and University Advanced Standing

Covers technical and theoretical aspects of all basic figures in Rumba, Samba, Paso Doble, Jive and Cha Cha. Focuses on areas such as Footwork, Rhythm, and Leads and Follows. Emphasizes correct teaching methods associated with each dance. Prepares students to obtain membership in the Imperial Society of Teachers of Ballroom Dance and to teach professionally.

DANC 476R
Ballroom Dance Company Tour Team
3:0:9 **Fall, Spring**
 * Prerequisite(s): Audition

For students with advanced Ballroom Dance Team experience. Audition required. Teaches advanced technique in performance and competitive discipline. Includes choreography, performances, demonstrations, and tours, in formation team dancing, stage performance, team competition, team match, and individual competitive events. Requires individual practice. May be repeated for 9 credits toward graduation. Course fee of \$100 for specialized clothing and materials applies.

DANC 481R
Internship in Dance I
1 to 3.5:2.5 to 12.5 **Fall, Spring**
 * Prerequisite(s): Senior status in BFA or BS in Dance and Departmental Approval, and University Advanced Standing

Provides an opportunity for upper-division students to receive college credit and work in a dance-related field. Offers students the opportunity to focus on a specific career path and prepare themselves to enter the profession. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Also requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 6 credits towards graduation. May be graded credit/no credit.

DANC 4880
Current Issues in Dance
3:3:0 **Fall**
 * Prerequisite(s): DANC 3630, upper-division status, and University Advanced Standing

Introduces students to the issues and philosophical views that have influenced dance and other art forms. Examines current trends and issues in dance. Includes lecture, discussion, readings, video, guest artists, and collaborative projects.

DANC 4920
Dance as Cultural Practice
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): DANC 2110 and (DANC 365R or DANC 3670) and University Advanced Standing

Designed for students with an interest in dance and cultural representation. Takes a critical cultural approach to the study of dance as a means of encoding cultural values. Analyzes issues of gender, identity, religion, power, art, semiotics, and media/technology in relation to dance. Explores the effect of dance as cultural representation on society. Emphasizes critical theories of dance, representation, identity, feminism, and post-modernism. Requires student presentation of research project.

Dental Hygiene (DENT)

DENT 1010
Dental Hygiene I
3:3:0 **Fall**
 * Prerequisite(s): Acceptance into Dental Hygiene program
 * Corequisite(s): DENT 1015

For students accepted into the Dental Hygiene Program. Introduces basic principles and skills used in the practice of dental hygiene, including infection control, patient assessment and treatment. Requires practicing on dental mannequins and student patients. Teaches all skills to clinical competence. Builds on basic and dental sciences and is foundational for the ensuing Dental Hygiene II, III, and IV courses. Course fee of \$3175 for practical experience applies.

DENT 1015
Dental Hygiene I Preclinical lab
2:0:6 **Fall**
 * Prerequisite(s): Acceptance into Dental Hygiene program
 * Corequisite(s): DENT 1010

For students accepted into the Dental Hygiene Program. Introduces basic principles and skills used in the clinical practice of dental hygiene, including infection control, patient assessment and treatment. Skills are practiced in a preclinical setting on dental mannequins and student patients; all skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice on community patients. Course Lab fee of \$73 applies.

DENT 1020
Oral Anatomy and Physiology
4:3:3 **Fall**
 * Prerequisite(s): Departmental permission required

For students accepted into the Dental Hygiene Program. Focuses on study of the normal development, structure, and function of the orofacial region. Provides microscopic and macroscopic study of oral structures in a laboratory setting. Builds on basic sciences and prepares for the study of the dental sciences and clinical dental hygiene.

Course Descriptions

DENT 1030

Dental Materials

2:1:3 Spring

* Prerequisite(s): Departmental permission required

Presents the history, composition, chemical, and physical properties and use of materials commonly utilized in the dental laboratory and dental operator. Builds on dental sciences. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions; all skills are taught to laboratory competence. Course Lab fee of \$75 applies.

DENT 1040

Dental Hygiene II

3:3:0 Spring

* Prerequisite(s): Acceptance into Dental Hygiene program

* Corequisite(s): DENT 1015

Provides advanced dental hygiene modalities, including oral health education, practice management, patient assessment and treatment. Emphasizes treatment planning and emergency preparedness. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. Course fee of \$3175 for practical experience applies.

DENT 1045

Dental Hygiene II Clinical

3:0:9 Spring

* Prerequisite(s): Acceptance into Dental Hygiene program

* Corequisite(s): DENT 1040

Provides for developing clinical dental hygiene skills, practiced on patients in a clinical setting, including oral health education, practice management, patient assessment and treatment. Emphasizes treatment planning and emergency preparedness. All skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. Course Lab fee of \$85 applies.

DENT 1050

Clinical Dental Radiography

1:1:0 Fall

* Prerequisite(s): Acceptance in Dental Hygiene program

* Corequisite(s): DENT 1055

Focuses on radiation physics, biology, protection, quality, dental techniques, film processing and mounting, interpretation of errors, recognition of anatomical landmarks, and evidence of pathologies. This is then applied in the co requisite radiology lab course. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 1055

Clinical Dental Radiography Lab

1:0:3 Fall

* Prerequisite(s): Acceptance into Dental Hygiene program

* Corequisite(s): DENT 1050

Focuses on clinical application of radiation physics, biology, protection, quality, dental techniques, film processing and mounting, interpretation of errors, recognition of anatomical landmarks, and evidence of pathologies. Practices skills on radiographic mannequins in a laboratory setting; all skills are taught to clinical competence. Builds on basic and dental sciences and prepares for clinical dental hygiene practice. Course Lab fee of \$74 applies.

DENT 1060

General and Oral Pathology

2:2:0 Spring

* Prerequisite(s): Acceptance into Dental Hygiene program

Focuses on the study of commonly encountered systemic and oral diseases; etiology, presentation, treatment and effect on dental treatment, including associated emergency procedures. Emphasizes the principles of inflammation, immunology, healing, and repair. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 1070

Medical Emergencies in the Dental Office

1:1:0 Fall

* Prerequisite(s): Acceptance into Dental Hygiene program

Introduces the basic principles and management of medical emergencies that could occur in a dental office, including the care and clinical management of medically compromised patients.

DENT 2020

Dental Pharmacology

3:3:0 Spring

* Prerequisite(s): Departmental permission required

Focuses on pharmacology as it affects the clinical practice of dentistry. Emphasizes drugs commonly used in dentistry, for treatment of common systemic and oral diseases, and for emergency treatment: effects, administration, and toxicology. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 206G

Oral Public Health

3:2:3 Fall

* Prerequisite(s): Departmental permission required

Examines the principles of community health, including assessment, planning, implementation, and evaluation of health care, with an emphasis on oral health. Builds on knowledge of ethics, basic and dental sciences, and clinical dental hygiene practice. Provides the knowledge and skills necessary to function in a community health setting and includes learning experiences in community health agencies. Analyzes and evaluates global or intercultural issues. Evaluates cultural rules and biases. Explores stereotypical cultural conceptions.

DENT 3010

Dental Anesthesiology

3:3:0 Fall

Focuses on pain control to include local and topical oral anesthesia, nitrous oxide conscious sedation and other means of pain control that will be taught to the accepted standard of care. Requires application of knowledge gained from this course to direct clinical application on their patients in the clinical setting. Builds on basic and dental sciences and prepares the student for clinical dental hygiene practice and will also prepare the student for their local anesthesia boards exams. Course fee of \$3175 for practical experience applies.

DENT 3015

Dental Hygiene III Clinical

4:0:12 Fall

* Prerequisite(s): Acceptance into Dental Hygiene program and University Advanced Standing

* Corequisite(s): DENT 3010

Introduces skills involving oral anesthesia (pain control) and supportive periodontal treatment. Utilizes advanced skills of dental hygiene practice, including assessment and treatment on patients of all ages in a clinical setting, with emphasis on planning and comprehensive treatment. Requires demonstration of clinical competence unless otherwise noted in the course outline. Includes more rigorous skill and patient difficulty levels than the first year clinical experiences. Builds on basic and dental sciences and foundational skills to include DENT3010, and prepares the student for clinical dental hygiene practice. Course Lab fee of \$63 applies.

DENT 3030

Periodontology

3:3:0 Fall

* Prerequisite(s): Departmental permission required and University Advanced Standing

Focuses on the study of the healthy periodontal tissues, and the factors, recognition, and classes of periodontal disease. Provides background knowledge of nonsurgical and surgical treatment of periodontal disease. Builds on basic and dental sciences and prepares for clinical dental hygiene practice.

DENT 3040

Dental Hygiene IV

2:2:0 Spring

* Prerequisite(s): Acceptance into Dental Hygiene program and University Advanced Standing

* Corequisite(s): DENT 3045

Provides comprehensive didactic experience in all phases of dental hygiene practice for patients, regardless of special needs. Introduces nutritional and tobacco cessation counseling. Builds on basic and dental sciences and prepares for various practice settings in clinical dental hygiene. Course fee of \$3175 for practical experience applies.

DENT 3045

Dental Hygiene IV Clinical

4:0:12 Spring

* Prerequisite(s): Acceptance into Dental Hygiene program and University Advanced Standing

* Corequisite(s): DENT 3040

Provides comprehensive clinical experience in all phases of dental hygiene practice for patients, to include special needs. Course teaches to clinical competence. Introduces nutritional and tobacco cessation counseling. Builds on basic and dental sciences and prepares for various practice settings in clinical dental hygiene. Course Lab fee of \$63 applies.

DENT 3050**Dental Hygiene Seminar****1:1:0** **Spring**

* Prerequisite(s): Departmental permission and University Advanced Standing

Explores topics relevant to contemporary practice of dental hygiene, including their professional roles, career and stress management, ethical and legal aspects, and the role of the dental hygienist in the dental specialty practices. Builds on clinical practice and prepares for entry into the many aspects of the profession of dental hygiene. Includes observation of various dental specialty practices.

DENT 3060**Advanced Dental Hygiene Public Health****2:1:3** **Spring**

* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing

Examines current and future issues in oral public health. Examines barriers and solutions to health concerns. Teaches students to produce a program or process to address an issue.

DENT 3100**Office and Private Practice for the Dental Hygienist****3:3:0** **Fall**

* Prerequisite(s): 2 year hygiene degree, departmental approval, and University Advanced Standing

Expands beyond the dental hygiene basics taught in hygiene school. Addresses topics in dental hygiene practice that will help the clinical dental hygienist become more proficient in their field and a leader in dental hygiene. Studies practice management issues, productivity, salary enhancement, cutting edge technology, dental insurance, salaries and benefits, team work, patients and money considerations, and other challenges faced in the dental hygiene profession.

DENT 3200**Teaching the Dental Hygiene Patient****2:2:0** **Summer**

* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing

Addresses areas such as learning theories, teaching strategies, societal-cultural considerations, and evaluation and applies them specifically to the needs of the dental hygienist when teaching his/her patients and the community at large.

DENT 406G**Global Community Health Project****3:3:0** **Summer**

* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing

Addresses the complexities inherent in global and/or intercultural oral health and the community health theories and strategies used to address these concerns. Includes the planning and execution of a two-week oral health education or promotion project in either another country or among another culture (e.g., Native American reservation in Utah or Ghana, West Africa).

DENT 4200**Teaching the Dental Hygiene Student****2:2:0** **Summer**

* Prerequisite(s): DENT 3200, DENT 3060, and University Advanced Standing

Prepares the dental hygienist to become a successful dental hygiene educator in a dental hygiene program by addressing areas such as: learning theories, teaching strategies, learning objectives, lesson plans, syllabi, curriculum design evaluation tools, and roles of an educator. May be delivered online.

DENT 4300**Dental Hygiene Capstone****1:1:0** **Spring**

* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing

Requires the student to integrate several main areas of study in the BS program and create a paper or project that reflects comprehensive knowledge and ability to reflect, connect and then produce a work based on their learning experiences throughout the BS program.

DENT 481R**Internship in Dental Hygiene****1 to 4.5:1.5 to 10.5** **Spring**

* Prerequisite(s): Admission to the BS Dental Hygiene and University Advanced Standing

Refers to and utilizes the student's current private practice situation as a practicing dental hygienist to further apply and develop their skills and knowledge. Requires the student to keep a reflective journal and produce a paper relating to his/her experience. May be repeated for up to 8 hours with only 4 credits applying toward the BS Dental Hygiene. May be graded credit/no credit.

DENT 489R**Undergraduate Research in Dental Hygiene****3:0:9** **Fall**

* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides students with the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in their prior major courses. Students will create a significant intellectual or creative product that is characteristic of the dental hygiene discipline and worthy of communication to an audience. May be repeated for a maximum of 6 credits toward graduation.

DENT 490R**Special Topics in Dental Hygiene****3:3:0** **Summer**

* Prerequisite(s): Acceptance into BS in Dental Hygiene program and University Advanced Standing

Explores and examines special topics in Dental Hygiene. Focuses on special topics of current and future relevance to the profession of dental hygiene including societal, economic, and cultural impacts of topics. Allows dental hygiene students an opportunity to investigate special dental hygiene topics in an in-depth manner and allows the student some flexibility in selecting certain topics of particular importance or interest to them. Topics are subject to change from year to year. May be repeated for a maximum of 6 credits toward graduation.

Digital Media (DGM)**DGM 1061****Motion Picture Editing****3:3:1** **Fall, Spring**

Introduces interface, fundamental set of tools, techniques and operations of Non-Linear Editing. Provides experience with basic editing functions, post production workflow and exporting a finished project for various distribution channels. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 1062**Animation for the Internet****2:1:3** **On Sufficient Demand**

Introduces the interface, tool set, tweening techniques, and operations of an animation software package for online use. Requires creation of an interactive project with sound, video, and motion. Introduces basic scripting. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 1063**Image Editing****2:1:3** **Fall, Spring**

Introduces students to the interface, fundamental set of tools, techniques and operations of Photoshop. Requires creation and modification of digital images. Software fee of \$15 applies. Lab access fee of \$35 applies.

DGM 1110**Digital Media Essentials I****4:4:0** **Fall, Spring, Summer**

Beginning course designed to give students an in-depth introduction and well-grounded understanding of the digital media way of thinking, opportunities in the field, various tools, and introduction to development techniques. Topics include: audience assessment, digital imaging, compression algorithms, ethical dilemmas, message design through text, audio, images, animation, and digital video. May be delivered online. Software fee of \$15 applies. Lab access fee of \$35 applies.

DGM 1220**Digital Design Essentials****3:3:0** **Fall, Spring**

Teaches fundamentals of digital layout for web development and how to properly create engaging interfaces for digital media. Addresses technical challenges for digital mediums to deliver effective digital experiences. Introduces basic content creation and sprint thinking independent of software platforms.

DGM 1230**Interaction Design Essentials****3:3:0** **Fall, Spring**

* Prerequisite(s): DGM 1220

Implements creative development layouts into interactive designs. Focuses on integration with industry development tools. Introduces basic overview of product development, pattern libraries, layout and development standards using interaction and industry practices for digital experiences.

Course Descriptions

DGM 1240

Communicating Digital Design

3:3:0

* Prerequisite(s): ART 1420

Focuses on the development of highly creative and visual design documentation; how to communicate both written and visual information in meaningful ways in a highly technical field. Teaches why communicating a particular design challenge is just as important as the design itself, and why writing, layout, and visual clarity is critical to mastering UX and Digital Product Design. Sets the foundation for all documentation assignments in the Web Design and Development degree.

DGM 1500

Intro to Digital Cinema

1:1:0

Fall

Offers an overview of the Digital Cinema major and industry. Teaches students the expectations and timetables required of them as they progress through the major. Develops a broad understanding of the various aspects of the filmmaking process and how training for these various aspects is conducted at UVU. Emphasizes industry standards of safety and professionalism. Should be taken in the first semester of classes in the program.

DGM 1510

Film Production Analysis

3:1:6

Fall, Spring

Film Production Analysis is a foundation class for those interested in the digital media and motion picture business. Analyzes the various technologies and production techniques that make up motion picture communication. Involves viewing a motion picture each week of class and analyzing how the producer and director incorporated production and structural techniques to produce a compelling story. Covers the eight sequence structural elements of motion picture storytelling, how each crew member of the production team contributes to the overall impact, how scripting is used to direct the team to create a strong cinematic effect, and how the three act eight sequence structure guides the entire team through the pre-production, production and post-production process. Software fee of \$15 applies. Course fee of \$18 for software and plug-ins applies. Lab access fee of \$35 applies.

DGM 1520

Corporate and Documentary Production

3:3:0

Fall, Spring

Presents professional video production techniques used in documentaries and corporate video. Covers production processes such as working with corporations, scripting, camera techniques, basic lighting techniques, production management and basic non-linear editing techniques. Requires participation in a high-quality semester project that will take a corporate or documentary project through the entire pre-production, production and post-production process. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 1600

Scripting for Internet Technologies

3:3:0

Fall, Spring

Introduces the fundamentals of computer programming and problem solving using the current industry standard scripting languages. Emphasizes the fundamentals of structured and object-oriented programming, syntax, semantics, control structures, arrays, file I/O, testing/debugging, implementation, and the construction of graphical user interfaces. Applies these concepts to manipulate digital images, sound, movies, text, and web pages that are heavily used as digital media. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 1610

Scripting for Animation and Games I

3:3:0

Fall, Spring

Introduces the fundamentals of computer programming and problem solving using the current industry standard scripting languages. Emphasizes the fundamentals of structured and object-oriented programming, syntax, semantics, control structures, arrays, file I/O, testing/debugging, implementation, and the construction of graphical user interfaces. Applies these concepts to manipulate digital images, sound, movies, text, and web pages that are heavily used as digital media.

DGM 1620

Survey of Animation

3:2:3

Fall, Spring, Summer

Introduces animation principles and studio processes used in the contemporary animation industry. Emphasizes the synthesis of technology and aesthetics in the production of an animated title. Includes an introduction to animation milestones and personalities. Course fee of \$35 for computers applies. Lab access fee of \$35 for computers applies.

DGM 1660

Introduction to 3D Modeling and Surfacing

3:3:0

Covers the 3D pipeline which includes pre-production (rough placeholder art), production (finished art), and post production (composite and effects). Instructs students to develop 3D models, UV maps, and 2D textures. Teaches how to integrate models into a realtime rendering engine.

DGM 210R

Special Topics in Digital Media

1 to 4:0 to 4:0 to 12 On Sufficient Demand

Designed for students interested in specific digital media tools and concepts. Includes relevant and changing topics and tools used in production. Emphasizes hands-on experience along with lectures and demonstrations. This class may be taken for a total of nine credits, but curriculum may vary from one semester to another. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2110

Digital Motion Picture Essentials

3:2:2

Fall, Spring, Summer

* Prerequisite(s): DGM 1061 and DGM 1510 and DGM 1520

Presents professional digital film production techniques used in feature films, documentaries, and corporate video. Covers production processes such as story structure and script development, camera techniques, basic lighting techniques, production management, and basic non-linear editing techniques. Addresses problem solving issues related to pre-production, production and post production. Includes a high-quality semester project that will take a story through the entire digital film pre-production, production, and post-production process. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2120

Web Essentials

3:3:0

Fall, Spring, Summer

Provides the fundamentals necessary to plan, design, develop, deploy, and critique a web site which includes images, sound, video, forms, and separates content from presentation. Focuses on the fundamentals of web programming languages including XHTML, CSS, and JavaScript. Examines various ways to build an accessible web page. Utilizes collaborative document sharing as students work in a group to research and present on server technologies. Culminates in a final project in which students will design and deploy a working site. May be delivered hybrid and/or online. Software fee of \$15 applies. Lab access fee of \$35 for computers applies

DGM 2130

Digital Audio Essentials

3:2:3

Fall, Spring, Summer

* Prerequisite(s): DGM 1110, MAT 1010

Reviews basic sound principles, cable types, microphone types and basic techniques of use. Teaches recording of basic sounds and musical instruments into a Digital Audio Workstation. Introduces multi-track audio, editing, EQing, mixing and mastering a 3-minute piece with voice and music. Includes a final project consisting of a multi-track music project designed for use in film, commercial radio, or other multimedia applications. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2140

Electronics for Media

3:2:3

Fall

Covers connectors and cable wiring standards and soldering techniques used in this field. Emphasizes electronic equipment and circuits used with electrical safety in media. Includes basic DC/AC theory such as voltage, current, resistance, power dissipation, batteries, and magnetism. Introduces the basic construction and theory of operation of circuits used in media containing electronic components, resistors, capacitors, inductors, transformers, diodes, transistors, electron tubes, operational amplifiers, and linear ICs. Designed for Digital Media students. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 220R
Special Topics in Digital Design
1 to 4:0 to 4:0 to 12 On Sufficient Demand

Designed for students interested in specific authoring tools and concepts used in digital media processes. Includes relevant and changing topics and tools used in digital authoring. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Course fee of \$10 for materials applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2210
3D Modeling and Animation Essentials
4:3:3 Fall, Spring, Summer
 * Prerequisite(s): DGM 1110 or DGM 2620

Addresses the basics of 3D modeling, rigging, texturing, animation, and rendering. Demonstrates how to utilize these techniques in a production pipeline for games and animation. Includes basic techniques and theories used in a 3D animation pipeline. May be delivered online. Software fee of \$15 applies. Course fee of \$19 for equipment applies. Lab access fee of \$35 for computers applies.

DGM 2211
Rigging and Animation Essentials
3:2:3
 * Prerequisite(s): DGM 2210 and department approval

Introduces fundamental rigging for a typical 3D character, and simple 3D performance motion for animated films and games. Software fee of \$15 applies. Lab access fee of \$35 applies.

DGM 221R
Digital Design Practicum
1:0:1 Spring
 * Prerequisite(s): DGM 2250

Instructs in the design and production of a fully-featured digital media project, including concept, design, content creation and acquisition, testing, revision, mastering, and publication with hands-on guidance. May be repeated for a maximum of 3 credits toward graduation.

DGM 2221
Game Essentials
3:2:3
 * Prerequisite(s): DGM 1600 and department approval

Provides a foundation for basic game development pipeline. Covers low poly count modeling in a variety of software packages and use of 3D models in an industry-standard game development engine. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2240
Interaction Design
3:3:0 Fall, Spring
 * Prerequisite(s): DGM 1110 or CS 1400 or INFO 1200
 * Prerequisite(s) or Corequisite(s): For AVC majors: ART 1400, ART 1420.

Focuses on strategies and principles used in digital media development to enhance the user experience. Teaches how to understand stakeholder goals, identify and specify user needs and requirements through user research and design documentation, engage in interactions with target audiences through interviews, observation, and discussion, as well as create and test prototypes. This course is highly project based and deals with solving real-world problems faced by consumers using products in the market. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2250
Principles of Digital Design
3:3:0 Fall, Spring
 * Prerequisite(s): DGM 1110

Teaches principles of visual design, how to properly create engaging interfaces for digital media, and practice good integration with industry development tools. Addresses the complexity of designing rich media experiences around digital devices ranging from computer screens to personal information devices. May be delivered online. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2260
Immersive Authoring I
3:3:0 Fall
 * Prerequisite(s): DGM 1110

Focuses on the application of media technologies that possess the ability to create rich immersive experiences for distribution on optical media such as CD, DVD-ROM, and over the Internet. Introduces participants to a variety of authoring systems and development techniques when creating Digital Media experiences. *Laptop Required. May be delivered online. Software fee of \$15 applies. Course fee of \$18 applies. Lab access fee of \$35 for computers applies.

DGM 2270
Digital Publishing I
3:3:0 Fall
 * Prerequisite(s): DGM 2120

Focuses on the development of engaging mobile apps for distribution on a myriad of devices. Teaches the fundamental building blocks of publishing digital media experiences of all types and may include interactive guide, catalogs, brochures, training manuals, kiosks, and exhibits. Such apps will be developed for touchscreen 'native' content and feature real-time updates. *Laptop & Device Required May be delivered online. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2271
Digital Media Design I
3:3:0 Fall, Spring
 * Prerequisite(s): DGM 2120

Introduces students to the underlying design and development principles that create favorable circumstances for user-centered digital media experiences. Establish the development techniques and processes required for Web and mobile apps, which may include native OS and Web Apps as well as interactive digital publication Apps. Further introduces topics such as responsive design, use of grids and layout patterns according to platform, as well as underlying development considerations such as content inventory and Information Design. Offers students a greater appreciation for good design and the basic skills necessary to produce world-class media experiences. May be delivered online. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2280
Digital Effects I
3:3:0
 * Prerequisite(s): DGM 1110

Focuses on the use of digital visual effects in mobile publishing environments. Subjects include but are not limited to multi-layer effects in known mobile layouts, creation of digital mattes and parallax for unique visual user engagement, as well as integration techniques according to development platforms. Tools may include After Effects, Motion, and Hype. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 230R
Special Topics in Digital Graphics
1 to 4:0 to 4:0 to 12 On Sufficient Demand

Designed for students interested in specific graphic tools and concepts currently used in digital media production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. This class may be taken for a total of nine credits, but curriculum may vary from one semester to another. Course fee of \$10 for materials applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2320
Digital Photography and Compositing I
3:3:0 Fall, Spring

Introduces digital image acquisition and manipulation. Teaches the mechanics of the digital camera, and introduces lighting, white balance, color temperature, digital ISO and electronic image stabilization. Discusses image compositing, EXIF data analysis and archiving. Software fee of \$15 applies.. Lab access fee of \$35 for computers applies.

DGM 2340
Digital Output for Film
3:2:2 Spring
 * Prerequisite(s): DGM 2540 or instructor approval

Focuses on the digital workflow management of digital still and cinema camera assets. Addresses codecs, asset backup, management, light color grading, transcoding, preparation of assets for the NLE workflow and final asset output for various digital distribution channels. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

Course Descriptions

DGM 2341

Digital Output for Mobile Media

3:3:0 Fall, Spring

* Prerequisite(s): DGM 2120 or instructor approval

Focuses on the digital workflow and management of still images, video, audio and digital effects media assets. Addresses use of codecs and format types for use in mobile media use scenarios. Introduction to proper handling of assets in various development platforms and user experience design best practices when using assets on touch-based devices. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 240R

Special Topics in Digital Audio

1 to 4:0 to 4:0 to 12

* Prerequisite(s): DGM 1110

Designed for students interested in specific audio tools and concepts currently used in digital audio production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Software fee of \$15 applies. Lab access fee of \$35 for computers, applies.

DGM 2410

Core Recording Principles

3:3:0

* Prerequisite(s): DGM 2130

Teaches mic choice and placement, acoustic positioning, in-line signal processing, level matching, impedance matching, phase error elimination, pre-mixing and recorded stems, DAWs, Pro-Tools intermediate skills, project budgeting, and artist and client relations. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2430

Core Mixing Principles

3:3:0

* Prerequisite(s): DGM 2410

Teaches the science and art of audio mixing, centering on a broad range of musical and media post-production material. Covers initial mix plan, signal flow, and fix, fit and feature skills for all signal processors, including equalization, compression, limiting, delay, reverb, distortion, doubling, phase, flange, chorus, other modulation effects, characteristics of algorithms (digital, solid state, transformers, rectifiers, tube, electro-optical, convolution). Also, teaches mix room acoustics, treatments and workarounds.

DGM 2440

Sound for Film and Television

3:3:0

* Prerequisite(s): DGM 2130

Teaches the basics of gathering sound for use in film and video productions. Covers proper boom miking and wireless mic techniques, and acoustics preparation to record dialogue and sound effects on location and on sound stages. Examines the processes utilized in editing audio of multimedia productions, including the balancing of artistic relationships, mixing and mastering of music, sound effects tracks and Foley. Offers practical experience in audio-only productions as well as audio-video relationships. Culminates in a digital cinema mixing session. Primarily a lab class, may couple with another video class to gather the sound for a cohesive project. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2460 (Cross-listed with: COMM 2560)

Radio Production

3:3:0

Fall

Teaches the history of radio, and the structure of typical radio stations, from management to programming and sales, and production and promotion. Covers method of producing radio promos, radio shows, commercials and news segments, as well as features and interviews. Examines the use of Digital Audio Workstations to produce several radio segments of the student's choosing. Includes lectures, demonstrations, and guest lecturers from radio stations in the community. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2481

Digital Audio Restoration

3:3:0

Fall

* Prerequisite(s): DGM 2130

Teaches the value and use of various tools to restore, preserve, and archive audio from a variety of sources, including vinyl records, tapes, film soundtracks, etc. Additional topics include removal of ambient noise (fans, AC, etc) from class film projects, impulsive noise (clicks and pops), periodic noise (hum and buzz), and random noise (spectral subtraction of ambient noise). In addition, some attention will be given to the subject of audio forensics, or restoring audio for intelligence or law enforcement applications. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2490

Digital Audio Workstation Training I

3:2:3

* Prerequisite(s): DGM 2130

Teaches proficiency in the use of a Digital Audio Workstation at the beginning level. Implements the first half of AVID Corporation's "ProTools User Level" certification, and successful completion of this course, together with its follow-on course, DGM 2491, will earn students their AVID ProTools certification at the "User" level.

DGM 2491

Digital Audio Workstation Training II

3:2:3

* Prerequisite(s): DGM 2130, DGM 2490

Teaches proficiency in the use of a Digital Audio Workstation at the intermediate level. Implements the second half of AVID Corporation's "ProTools User Level" certification, and successful completion of this course, together with its preceding course, DGM 2490, will earn students their AVID ProTools certification at the "User" level.

DGM 250R

Special Topics in Digital Cinema

1 to 4:0 to 4:0 to 12 On Sufficient Demand

* Prerequisite(s): DGM 2110

Designed for students interested in specific video tools and concepts currently used in digital media processes. Includes relevant and changing topics and tools used in industry. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Lab access fee of \$35 for computers applies. Software fee of \$15 applies. Course fee of \$10 for equipment applies.

DGM 2540

Cinematography I

3:2:3

Fall, Spring

* Prerequisite(s) or Corequisite(s): DGM 1510

Introduces the role of the Gaffer and the Grip in broadcast television and digital cinematography. Introduces the role of the Director in directing blocking for camera and lights. Teaches full understanding of lighting instruments, power distribution, lighting support, rigging, dollies, and production equipment. Teaches how to work as a member of a team/department applying on-set protocols to meet the needs of production objectives. Software fee of \$15 applies. Lab access fee of \$35 for computers applies. Course fee of \$46 for equipment applies.

DGM 2570

Intro to Digital Storytelling

3:2:2

* Prerequisite(s): DGM 1510

Introduces dramatic and persuasive writing in technologies that include interactive media, gaming and animation technology, virtual reality and other emerging technologies, and corporate documentary and narrative digital cinema.

DGM 2600

The Animated Image

3:3:0

Fall

* Prerequisite(s): ENGL 1010

Chronicles the development of Animation as a medium dependent on both aesthetics and technology from its inception in the late 19th century through contemporary scientific and entertainment venues. Introduces key international personalities and industry benchmarks. Discusses animation both as a means of self-expression and as a commercial enterprise. Includes film screenings and research assignments. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 260R
Special Topics in Animation and Game Development
1 to 4:0 to 4:0 to 12

Designed for students interested in specific animation tools and concepts currently used in digital animation production. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Lab access fee of \$35 for computers applies. Software fee of \$15 applies. Course fee of \$12 for equipment applies.

DGM 2610
Game Design I

3:2:3 **Fall**
 * Prerequisite(s): DGM 2221

Explores video and computer gaming from historic, economic and production perspectives. Introduces game theory, analysis, design documentation, and development. Lab access fee of \$35 for computers applies.

DGM 2620
Principles of Animation I

3:2:3 **Fall**
 * Prerequisite(s): DGM 1600 and 1620 and department approval

Explores and applies animation principles including: timing and spacing, story keys, straight ahead, pose-to-pose, walks, runs, and flexibility. Emphasizes the study of objects in motion and the communication of key ideas. May be delivered hybrid. Lab access fee of \$35 for computers applies. Software fee of \$15 applies. Course fee of \$18 for software and plug-ins applies.

DGM 2640
Character Development

3:2:2 **Spring**
 * Prerequisite(s): (DGM 2210 and DGM 2620) or instructor approval

In-depth study and application of 3D character development for animation and games. Requires a firm understanding of 3D modeling, basic rigging, basic texturing, and principles of animation. Students will design, model, rig, and animate 3D characters following industry processes. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2660
Digital Storyboarding

3:3:0 **Fall, Spring**
 * Prerequisite(s) or Corequisite(s): DGM 2620 or DGM 2110

Introduces students to contemporary storyboarding practices, both linear and non-linear, key to communicating information clearly, and consistently in a cost effective manner.*Laptop Required. Lab access fee of \$35 for computers applies. Software fee of \$15 applies. Course fee of \$12 for software and plug-ins applies.

DGM 2661
Digital Storyboarding for Cinema

3:3:0 **Fall, Spring**

Introduces contemporary storyboarding and production design practices with a focus on the role of the director and storyboarding artist in communicating lighting, character movement, camera movement, camera angles and framing to key motion picture production departments.

DGM 2670
Scripting for Animation and Games II

3:3:0 **Spring**
 * Prerequisite(s): Portfolio Review Acceptance

Focuses on the basic elements of scripting languages in modern 3D applications. Develops a firm understanding of basic scripting concepts in a 3D environment, including: libraries, expressions, arrays, conditionals, loops, and functions. Discusses simplification of complex user operations and the development of basic user interfaces. Utilizes industry standard applications such as Maya, Houdini, and Unity3D. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 270R
Special Topics in Web Design and Development

1 to 4:0 to 4:0 to 12

Designed for students interested in specific web design tools and concepts currently used in multimedia creation. Includes relevant and changing topics and tools used in multimedia. Emphasizes hands-on experience along with lectures and demonstrations. Completers should be able to use the web design tools to create a typical multimedia project. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits toward graduation. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 2740
Principles of Web Languages

3:3:0 **Fall, Spring**
 * Prerequisite(s): DGM 2120, DGM 2250

Focuses on solving various Web design and coding problems using current Internet technologies. Emphasizes solving unique coding problems using HTML, CSS, and jQuery that arise when implementing a Web design. May be delivered online. Software fee of \$15 applies. Course fee of \$18 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 2760
Web Languages I

3:3:0 **Fall, Spring**
 * Prerequisite(s): DGM 2120

Considers the creation of websites using current client-side technologies, including: DHTML, or the combination of XHTML, JavaScript and Cascading Style Sheets. Covers advanced techniques for multimedia production and development in detail. Examines client-side technologies that allow viewers to interact with the content of Web pages. Extensively uses methods for creating highly interactive web sites without the use of authoring technologies. Teaches how to make the static content within a typical webpage more dynamic, interesting, and most importantly, useful. Culminates with a final project during which each student will design and create materials for use in a well-designed interactive web site. May be delivered online. Software fee of \$15 applies. Course fee of \$18 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 2780
Web Tools and Frameworks I

3:3:0 **Fall, Spring**
 * Prerequisite(s): DGM 2120 or INFO 2420

Teaches students the necessary skills to build structured, maintainable, scalable, and testable web applications using frameworks, tools, and techniques common in the industry, including the latest web development technologies and practices e.g. HTML5, CSS3, JQuery, AngularJS, Mobile, etc. Incorporates project-based learning to help students gain solid web development experience through hands-on programming and problem solving a real world project. Software fee of \$15 applies. Course fee of \$18 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 281R
Internship

1 to 8:0:5 to 40 **Fall, Spring, Summer**
 * Prerequisite(s): Departmental Approval

For Digital Media majors only. Provides a transition from school to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for entry level DGM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 16 credits towards graduation. May be graded credit/no credit.

DGM 296R
Seminar

1 to 3:1 to 3:0 to 9 **On Sufficient Demand**

Provides short courses, workshops, and special programs in information management or current administrative topics. Curriculum may vary from one semester to another. May be repeated for a maximum of nine credits.

DGM 301R
Digital Lecture Series

1:1:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing

Uses guest speakers who lecture on current topics in digital media. May be repeated for a maximum of 3 credits toward graduation.

DGM 3110
Corporate Issues in Digital Media

3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Covers business and legal issues in multimedia. Reviews good business practices for the multimedia industry. Studies universal marketing and sales principles and mastery, as well as e-commerce fundamentals. Teaches copyright laws and procedures, obtaining permissions, creating and using contracts, protecting corporate assets, standards, security and privacy issues, and other legal issues regarding multimedia communication. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

Course Descriptions

DGM 312G

Digital Media for Intercultural Communication

3:3:0 Fall, Spring, Summer

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Explores issues, concepts, and practices for making digital media accessible to people from diverse cultures and people with disabilities. Covers design considerations and techniques for the Web and other digital technologies. Presents methods for understanding and comparing different cultures and ways of approaching and enhancing intercultural interactions. Addresses accessibility standards, guidelines, and laws important for digital media developers to know and implement. May be delivered online. Lab access fee of \$35 for computers applies. Software fee of \$15 applies. Course fee of \$10 for equipment applies.

DGM 320R

Advanced Topics in Digital Media Design 1 to 4:0 to 4:0 to 12 On Sufficient Demand

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Intended for advanced students with an interest in digital design and authoring. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of \$35 for computers applies. Software fee of \$15 applies. Course fee of \$10 for equipment applies.

DGM 3220

Digital Media Project Management

3:3:0 Fall, Spring

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches the foundational management principles that contribute to both the quality and profitability of digital media products. Introduces technical project management skills to help with budgeting and scheduling as well as critical soft skills, such as how to manage product design, make good decisions, communicate effectively, and build productive work relationships. Also, teaches about different types of project documents that enable and support effective, successful projects. May be delivered online. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3240

Interaction Design Colloquium

3:3:0 Spring

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Provides advanced students with unique and current industry perspectives on interaction design through seminar discussions, workshops, and industry on-site experiences. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3260

Immersive Authoring II

3:3:0 Spring

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Focuses on advanced application of media technologies and design paradigms when creating rich immersive experiences for distribution as a net-based desktop or mobile application. This course is designed to be highly adaptable to enable infusion of unique and emerging technologies that are critical for digital media majors to understand. Laptop required. Lab access fee of \$35 for computers applies. Software fee of \$15 applies. Course fee of \$19 for software and plug-ins applies.

DGM 3261

Authoring for Virtual Reality Experiences

3:3:0 Fall

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Explores Virtual Reality as a technology for photographing locations and then allowing users to navigate through these spaces using QuickTime, Flash, or Java in a web browser. A virtual environment allows viewers to choose their own experience and make decisions as if they were actually on location. Virtual Reality environments are used to tour college campuses, museums, shops, sports venues, plan events at locations without visiting them in person; show real estate, entice viewers to travel to vacation getaways; and create historical documentation. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3270

Digital Publishing II

3:3:0 Spring

* Prerequisite(s): DGM 2270 and University Advanced Standing, and University Advanced Standing

Focuses on the development of engaging mobile apps for distribution on a myriad of devices. Teaches advanced development of publishing digital media experiences of all types and includes techniques for coding immersive experiences beyond standard practices. Such apps will be developed for touchscreen 'native' content and feature real-time updates. *Laptop & Device Required. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3271

Digital Media Design II

3:3:0 Spring

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches advanced adaptive development techniques of User Interface Design, which can create more robust experiences, through problem solving and effective communication. Focuses heavily on how designers can influence the user experience, and participatory outcomes of such experiences, through well-planned interactions, digital layout, and adaptation to the physical hardware. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3280

Authoring for Adaptive Media I

3:3:0 Spring

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Focuses primarily on the ability to curate and realign rich content assets through Internet-based Apps. Focuses on the application of media technologies that possess the ability to create adaptable content media experiences. Focuses primarily on the ability to use/reuse content in meaningful ways through unique and highly efficient distribution means. Distribution can be to desktop, mobile, and advancing technologies in the home or automobile markets. Laptop Required. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3290

Developing Digital Media for Instruction and Training

3:3:0 Fall

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches the lifecycle of training and development in a business setting. Uses the Instructional System Design (ISD) process, which includes identifying performance deficiencies and appropriate interventions, developing objectives, selecting appropriate learning technologies, developing course content, selecting effective instructional aids, delivering training, and evaluating training effectiveness. Reviews basic educational principles in teaching adult learners and managing classroom dynamics. Examines legal issues, cross-cultural preparation, and workforce diversity as they relate to training and development. Provides hands-on training experiences. Completers should be prepared to apply basic principles to training and development opportunities. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 330R

Advanced Topics in Digital Media Graphics 1 to 4:0 to 4:0 to 12 On Sufficient Demand

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Intended for advanced students with an interest in digital graphics and design. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3320

Digital Photography and Compositing II

3:3:0 Fall, Spring

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Builds on skills acquired in Digital Photography and Imaging I. Uses photo imaging tools like Photoshop, Light Table, and Aperture in the creation and manipulation of digital images for use in a broad range of output specific formats. Teaches advanced image manipulation, and compositing and asset management to deliver finished digital image deliverables for such things as the web, DVD media, print, billboard, and wrap advertising media. Lab access fee of \$35 for computers applies.

DGM 340R**Advanced Topics in Digital Audio****1 to 4:0 to 4:0 to 12**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Intended for advanced students with an interest in digital audio. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3410**Audio Engineering for the Studio I****3:3:0** **Fall**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Reviews basic sound principles (standing waves, studio acoustics, psycho-acoustics), microphone types and techniques of use. Covers theory and application of mixers, signal processors, and effects. Outlines proper construction and grounding of a recording studio. Introduces one or more digital audio workstations, which will be used to record a band or classical project. Requires the completion of a mixdown of a multi-track project. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3420**Studio Recording II****3:3:0** **Spring**

* Prerequisite(s): DGM 3410, Portfolio Review Acceptance, and University Advanced Standing

Reviews principles of good audio engineering covered in the introductory class, but in greater depth, including, cable types, microphone types, mixers, and techniques of use. Emphasis will be on miking techniques for each individual instrument involved in the recording. Covers in-depth theory and application of mixers, signal processors, and effects. Addresses advanced stereo miking techniques and focuses on several key instruments, including piano and drums. Continues further in-depth topics on impedance matching, power requirements, and use of the decibel. Includes acoustic properties and sound transmission loss of common studio surface materials. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3430**Recording Studio Design Principles and Practices****3:3:0** **On Sufficient Demand**

* Prerequisite(s): DGM 3410, Portfolio Review Acceptance, and University Advanced Standing

Addresses many issues found in the design, construction and maintenance of a recording studio. Explores the physics, mathematics, electronics, and practical issues to properly design and build a successful recording studio. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3440**Sound for Games****3:3:0**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing; Laptop capable of running the Unreal Developer's Kit and Unity.

Teaches sound design and implementation for video games using both the Unreal Developer's Kit (Unreal Engine) and the Unity Game Engine. Includes visual and text-based scripting, signal flow, resource allocation and preservation, priority, layering, mastering for end-format, computer-based, console-based, and mobile-targeted development, and whole-project planning and execution. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3460**Live Sound Reinforcement****3:3:0** **Spring**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches fundamental sound concepts: propagation, absorption, reflection, transmission, frequency response, effective manipulation of the decibel in calculations of loudness, power, and voltages. Covers intelligent use of microphone patterns, and loudspeaker and monitor placement. Investigates indoor sound vs. outdoor sound. Teaches proper cabling and connections, speaker crossovers, and theory of bi-amplification. Covers mixer diagrams and basic electronics. Incorporates practical experience acquired in giving technical support to UVU theater, music department, or public relations functions. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3481**Advanced Audio Restoration and Forensics****3:3:0** **Fall**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Covers advanced principles and practices for digitally restoring difficult audio specimens, and includes forensic audio restorative and reconstructive techniques important to historical, investigative, and criminological fields as well. Also covers, in more depth, the cylinder recording period at the turn of the century. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3490**Digital Audio Workstation Training III****3:2:3**

* Prerequisite(s): Portfolio review acceptance; DGM 2490, DGM 2491, and University Advanced Standing

Teaches proficiency in the use of a Digital Audio Workstation at the advanced level. Is the UVU implementation of the first half of AVID Corporation's "ProTools Operator Level" certification, and successful completion of this course, together with its follow-on course, DGM 3491, will make AVID ProTools certification at the "Operator" level available.

DGM 3491**Digital Audio Workstation Training IV****3:2:3** **Fall, Spring, Summer**

* Prerequisite(s): Portfolio review acceptance, DGM 3490, and University Advanced Standing

Teaches proficiency in the use of a Digital Audio Workstation at the expert level. Currently, this is the UVU implementation of the second half of AVID Corporation's "ProTools Operator Level" certification, and successful completion of this course, together with its preceding course, DGM 3490, will make AVID ProTools certification at the "Operator" level available.

DGM 350R**Advanced Topics in Digital Motion Picture Production****1 to 4:0 to 4:0 to 12** **On Sufficient Demand**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Includes relevant and changing topics and tools used in digital motion picture industry. Emphasizes hands-on experience. Uses digital cinema and production management and development tools to create a typical digital media project. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 351R**Digital Broadcasting****3:2:2** **Fall, Spring**

* Prerequisite(s): DGM 2110, Portfolio Review Acceptance, and University Advanced Standing

Teaches planning, management and execution of live video productions integrating multiple cameras. Teaches the roles of the broadcast production team. Studies various types of digital standards and broadcast equipment. Includes hand-on broadcast lab where students produce and direct short productions. May be repeated for a maximum of 12 credits toward graduation. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3520**Digital Motion Picture Production****3:2:2** **Fall, Spring**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches advanced digital cinema storytelling production techniques for CD-ROM, DVD, World Wide Web and theatrical distribution. Includes instruction in the different positions that comprise the entire production team, including the roles of the team and how they evolve through the pre-production, production and post production process. Stresses narrative film based on structurally sound three act eight sequence scripts. Involves dividing the class into production teams and producing short three act narrative films that include dialogue, sound effects and music. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

Course Descriptions

DGM 3530

Digital Film Production Management

3:3:0 **Fall**

* Prerequisite(s): (Portfolio review acceptance or consent of instructor) and University Advanced Standing

Teaches the foundational principles which contribute to both quality and profitability in digital motion picture projects that range from micro to mega budgets. Reviews team dynamics such as the relationship between producer and other production team members. Introduces industry standard Entertainment Partners budgeting and scheduling software tools, which can be used as management tools to guide multiple projects. Focuses on video/film workflow, from development and budgeting to pre-production, production and post-production. Requires the submission of an industry standard production book at the end of the semester. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3540

Cinematography II

3:2:3 **Fall, Spring**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

A "hands-on" class that covers the role of the Director of Photography (DP) and Gaffer in drama-based broadcast television and digital cinematography. Teaches continuity of lighting, visual story telling, implied script subtext through light quality and color, continuity in direction, use of lenses and shot blocking for fixed and moving camera. Covers advanced grip and lighting equipment use and setups. Covers working with a producer, director, production designer, set decorator, boom operator and editor and on-set protocol. Software fee of \$15 applies. Lab access fee of \$35 for computers applies. Course fee of \$46 for equipment applies.

DGM 3550

Producing I

3:3:0 **On Sufficient Demand**

* Prerequisite(s): DGM 3530, Portfolio Review Acceptance and University Advanced Standing

Examines the process of motion picture development and distribution with focus on the role of the producer in identifying, evaluating, developing, financing and securing distribution. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3560

Post Production

3:3:1 **Spring**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches the professional post production process used to complete video tape, digital cinema, and multimedia productions. Covers workflow, dialogue cutting, montage cutting, music cutting, multi-camera editing, multi-layer compositing, audio mixing, special effects editing, animation editing, fine cutting and color correcting. Course fee of \$13 for software and plug-ins applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3570

Digital Story Telling Workshop

3:3:0 **Fall, Spring**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches advanced writing for digital media and digital cinema. Covers professional script structure based around the 8 sequence motion picture structure. Includes writing assignments each week that will be read and analyzed according to structure and execution of a goal. Discusses, a specific scriptwriting subject each week such as finding the idea, research, outlining and rewriting. Course fee of \$13 for software and plug-ins applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3571

Animation Story Development Workshop

3:2:3 **Spring**

* Prerequisite(s): ENGL 2010 and Portfolio Review Acceptance and University Advanced Standing

Covers short themed preproduction and development for animated and interactive titles. Includes research, outlining, writing using the iterative process, and preparation for story reel production.

DGM 3580

Digital Cinema Directing Workshop

3:2:3 **Fall, Spring**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Offers an advanced workshop format class structure. Requires a short script or concept to be polished and produced during the semester. Utilizes project-based opportunities to apply and hone skills in digital cinema direction, editing scripts, casting, rehearsing and performing a scene, cinematography and post production. Includes polishing concept for shooting, then shooting and editing for presentation and critique. Course fee of \$13 for software and plug-ins applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 360R

Advanced Topics in Animation and Games 1 to 4:0 to 4:0 to 12

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Intended for advanced students with an interest in digital animation. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Course fee of \$12 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3610

Game Design II

3:2:3 **Spring**

* Prerequisite(s): DGM 2610, Portfolio Review Acceptance and University Advanced Standing

Follows DGM 2610 Game Design I. Continues study of game theory, analysis, design documentation. Emphasis on game development using a gaming engine. A laptop computer is required for this course. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3620

Principles of Animation II

3:2:3 **Spring**

* Prerequisite(s): DGM 2620, Portfolio Review Acceptance and University Advanced Standing

Continues study of animation principles and concepts from DGM 2620. Includes an introduction to effects animation. Emphasizes character motion, and performance in a team-based project. Software fee of \$15 applies. Course fee of \$20 applies. Lab access fee of \$35 for computers applies.

DGM 3621

Hard Surface Modeling

3:2:3 **On Sufficient Demand**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches theories, tools, and principles of current industry modeling trends, specifically for video games and short animated films. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3641

Game Level Design

3:2:3

* Prerequisite(s): DGM 2610, Portfolio Review Acceptance, and University Advanced Standing

Provides an advanced treatment of a three step process in level/environmental design: Research and analysis, concept and prototype development, and testing and comparative metrics. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3650

Animation and Game Project I

3:1:6 **Fall**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Emphasizes industry pipeline processes. Covers the application of lighting and rendering in 3D animation and game environments. Includes composition, technical lighting, layer-based rendering, and texture baking. A junior-level group project will be completed in the course of the semester. Lab access fee of \$35 for computers applies.

DGM 3660

Advanced Rigging and Character Effects

3:2:3 **Spring**

* Prerequisite(s): DGM 2211, Portfolio Review Acceptance, and University Advanced Standing

Studies the process of rigging, and the motion of characters and objects in games and animation. Includes full character, muscle, facial, and dynamic rigs. Reinforces principles of animation. Lab access fee of \$35 for computers applies.

DGM 3670
Scripting for Animation and Games III
3:2:3 **Fall**
 * Prerequisite(s): DGM 2670, Portfolio Review Acceptance, and University Advanced Standing

Provides in-depth training in advanced scripting concepts and practices in 3D video game development. Focuses on the application of advanced technical topics as they impact game development. Addresses networking and distributed systems issues, including scalability and latency compensation techniques, for designing games for online multi-player environments. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3680
Animation and Game Project II
3:1:6 **Spring**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Devoted to the pre-production of a multi-semester team project for gaming and animation students. Includes research, writing, scripting, designing, storyboarding and pre-visualization of a client-driven project. Software fee of \$15 applies. Course fee of \$19 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 370R
Advanced Topics in Web Design and Development
1 to 4:0 to 4:0 to 12
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Intended for advanced students with an interest in Internet authoring. Includes relevant and changing topics and tools. Emphasizes hands-on experience along with lectures and demonstrations. Curriculum may vary from one semester to another. May be repeated for a maximum of 9 credits toward graduation. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3740
Web Content Management
3:3:0 **Spring**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Instructs students on how to create a site that in content rich, dynamic, and meaningful to site visitors. Teaches participants how to effectively plan, develop, and arrange content through the use of information design principles, content management systems, and analysis tools. Culminates with students building a live site for a real-world client where students must solve real design, development, and delivery issues. Software fee of \$15 applies. Course fee of \$19 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 3750
Media Traffic and Analytics
3:3:0 **Fall**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Provides students access to all the leading and most effective traffic techniques, ranging from organic search traffic and all aspects of SEO, through paid traffic of all kinds, and on to free, direct traffic methods. Includes Web and Mobile traffic techniques and analytical tools. Covers all the concepts involved in these areas of traffic and analytics, and will have experience actually generating traffic to a real web page (and may even make money), and using analytical tools to evaluate their results. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 3760
Web Languages II
3:3:0 **Fall**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): DGM 1110 and DGM 2120

Covers server-side web development and database interaction. Offers the skills and knowledge necessary to produce web sites in a professional environment. Covers current technology and design standards for websites that are database driven using current languages and platforms. Demonstrates how database interaction can enhance a multimedia website. Includes lectures, demonstrations, and weekly projects. Culminates with a final project during which each student will design and create materials for use in a well-designed database driven web site. May be delivered hybrid. Software fee of \$15 applies. Course fee of \$19 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 3780
Web Tools and Frameworks II
3:3:0 **Spring**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Participants learn advanced techniques for delivering exceptional Flash based Internet applications. Teaches advanced scripting fundamentals, how to deliver content through server-side database connectivity, and engaging the audience through highly interactive experiences. Software fee of \$15 applies. Course fee of \$19 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 3790
Rich Internet Application Development I
3:3:0 **Fall**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Instructs students in various Rich Internet Application development technologies. Investigates RIA development and delivery technologies such as Flash, Flex, and ActionScript, with a special emphasis on the integration of Digital Media into Internet applications. Teaches the design and development workflow for interactive, media-rich applications delivered via networked browser, computer desktops, and mobile devices. Software fee of \$15 applies. Course fee of \$19 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 4000
Writing for Digital Media
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 2010 or ENGL 2020, Portfolio Review Acceptance, and University Advanced Standing

Teaches the role of the written word in the digital arena and the writing skills for students to become effective communicators within the various forms of multimedia including web pages, digital animation, audio, video and cinema.

DGM 4280
Authoring for Adaptive Media II
3:3:0 **Spring**
 * Prerequisite(s): DGM 3280

Focuses on the advanced application of media technologies that possess the ability to create adaptable content media experiences. Focuses primarily on the ability to curate and realign rich content assets through Internet-based Apps. Teaches principles of distribution that can be applied to desktop, mobile, and advancing technologies in the home or automobile markets with a specific focus on dynamic retrieval and adaptation of content. *Laptop Initiative Requirement. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4310
Senior Capstone I
3:1:6 **Fall**
 * Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

For senior Digital Media students. Provides a capstone experience working in digital media. Develops individual real world projects in consultation with a faculty advisor. Encourages team work. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4410
Senior Capstone II
3:1:6 **Spring**
 * Prerequisite(s): DGM 4310, Portfolio Review Acceptance, and University Advanced Standing

Conclusion of DGM 4310. Concludes the capstone experience for digital media students. Addresses post production issues such as testing, packaging, and documentation. Offers the opportunity to present projects to students, faculty, sponsors, and potential employers or clients. Course fee of \$10 for equipment applies. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4420
Applied Digital Media Technology
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing

For educators and general public interested in technology integration. Examines the ever-expanding array of options available to educators, business personnel and government agencies for creating and distributing rich media based materials. Explores what new technologies and creative practices are available and how to implement them into their present workflow. Focuses on getting the most out of Digital Media technology. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

Course Descriptions

DGM 4430

Audio Mastering

3:3:0

Fall

* Prerequisite(s): DGM 3420, Portfolio Review Acceptance, and University Advanced Standing

Deals with the final step in any audio production--Mastering. Covers the art of final EQ and Compression. Explores the issues of bit depth, sampling rates, dither, jitter, EQ techniques, and Dynamic Range manipulation (expanders and compressors). Looks into analog and digital signal processors, including reverb, and the final step of putting an album together with a brief discussion on vinyl pre-mastering. Teaches the use no fewer than 15 different compressors, both analog and digital for comparative listening tests. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 450R

Story Editing for Digital Media

3:2:3

* Prerequisite(s): DGM 1510 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): DGM 3570 or THEA 2741

Teaches necessary skills for working with writers and producers preparing scripts for production through various media technologies. Uses Daniel Methodology to analyze stories in all stages from early concept to production scripts, identify strengths, diagnose weaknesses, and find possible solutions to strengthen the scripts. Teaches consulting techniques for working with writers and producers to communicate clearly and in a way that encourages and empowers them to suit their storytelling plan to the appropriate technologies. May be repeated for a maximum of 6 credits toward graduation.

DGM 454R

Cinematography Workshop

3:2:2

* Prerequisite(s): DGM 3540, Portfolio Review Acceptance and University Advanced Standing

Offers an advanced workshop format class structure. Utilizes project-based opportunities to apply and hone advanced professional skills in composition, lighting and camera movement. May be repeated for a maximum of 9 credits toward graduation. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4550

Producing II

3:3:0

Spring

* Prerequisite(s): DGM 3550

Implements the advanced process of motion picture development and distribution with focus on the role of the producer in identifying, evaluating, developing, financing and securing distribution.

DGM 4560

Color Grading

3:2:2

* Prerequisite(s): DGM 3560, Portfolio Review Acceptance and University Advanced Standing

Focuses on digital post production workflow and color grading, digital output for digital motion picture production. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 457R

Longform Digital Storytelling Project

Development

3:2:3

* Prerequisite(s): DGM 1510 and (DGM 3570 or THEA 2741), University Advanced Standing

* Prerequisite(s) or Corequisite(s): DGM 450R

Focuses on developing story concepts into producible digital media projects ready for preproduction with demonstrated technological, economic and artistic viability, by using proven storytelling approaches including Daniel Methodology to existing and emerging digital technologies. May include episodic video series, experimental new media, digital films, games, eBooks, etc. Uses original concepts or existing scripts, reworks the storytelling for a selected technology. Utilizes digital cinema, video streaming, eBooks, interactive media, gaming technology, virtual reality, and "new media." Emphasizes expanding the boundaries of what is possible using classic storytelling approaches such as Daniel Methodology applied to technological innovations in software, hardware, interactive design and innovative theoretical and practical methods for telling stories through digital technology. Uses applied digital media to demonstrate effective storytelling. For the purposes of this class, "Longform" is defined as requiring an end-user a minimum of forty-five minutes to consume the media. May be repeated for a maximum of 9 credits toward graduation

DGM 4610

Designing Technology based Training

3:3:0

On Sufficient Demand

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Provides shadowing opportunities in an educational or business setting where students can see basic principles of training and development in action and gain insights into training design, development, implementation, and evaluation. Uses the course map content from the DGM 3290 course to pre-author a technology-based training program, which includes creating a course navigation map (flowchart) to determine course sequence and navigational paths, designing storyboard frames with multimedia elements, and generating the navigation map and storyboards into an authoring tool. Completers should be prepared to apply shadowing experiences, discussion insights, and pre-authoring computer skills to future training opportunities. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4620

Producing Technology based Training

3:3:0

On Sufficient Demand

* Prerequisite(s): DGM 4610 and University Advanced Standing

Builds on information taught in DGM 3290 and DGM 4610. Generates story boards from a computer design tool into an authoring tool. Teaches basic principles of building and editing frames with text and multimedia elements. Provides practice and feedback, remediation as needed. Addresses individual learner needs and evaluation of program effectiveness. Uses program objectives to evaluate final program product. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4621

Performance Animation

3:2:3

On Sufficient Demand

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Teaches basic animation principles, such as: flexibility, timing and spacing, overlapping action, the successive-breaking-of-joints, and overlapping action. Covers theatrical performance animation, emotional facial, phoneme, and dialoged animation. Explores expressive character enactment, representative of life. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4630

Technical Direction for Animation and

Game Development I

3:3:0

Fall

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

Focuses on the production of digital special effects and compositing in 2D and 3D environments. Includes multi-layer effects, green screen, digital mattes, and grading. Tools may include visual effects editing and particle generation software. Software fee of \$15 applies. Course fee of \$19 for software and plug-ins applies. Lab access fee of \$35 for computers applies.

DGM 4640

Technical Direction for Animation and

Game Development II

3:3:0

Spring

* Prerequisite(s): DGM 4630, Portfolio Review Acceptance, and University Advanced Standing

Focuses on the use of digital special effects in a three-dimensional environment including high-end particle effects, digital fluids, and advanced simulation. Tools include industry standard Maya and Houdini. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 4790

Rich Internet Application Development II

3:3:0

Spring

* Prerequisite(s): DGM 3790, Portfolio Review Acceptance, University Advanced Standing

Instructs students in various Rich Internet Application development technologies with a focus on utilizing server-side resources. Investigates a wide variety of RIA technologies including media servers, messaging, and web services. Teaches how to design and develop RIAs using a variety of tools, code frameworks, and delivery clients. Requires creation of interactive and useful media-rich web experiences for end users. Software fee of \$15 applies. Lab access fee of \$35 for computers applies.

DGM 481R**Internship****1 to 8:0:5 to 40 Fall, Spring, Summer**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

For Digital Media majors only. Provides a transition from school to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for senior DGM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 16 credits towards graduation. May be graded credit/no-credit.

DGM 497R**Independent Study****1 to 3:0 to 3:0 to 9 Fall, Spring, Summer**

* Prerequisite(s): Portfolio Review Acceptance and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading or in individual projects; offered at the discretion and approval of the department chairperson. May be repeated for a maximum of 6 credits toward graduation.

Diesel Mechanics (DMT)

DMT 1000**Related Oxyacetylene and Arc Welding****3:1:7 Fall, Spring**

Specialty course designed for diesel mechanics, other trade areas, and interested community members. For beginning students. Covers theory and practice of oxyacetylene and arc welding of mild steel. Includes identification of basic and filler metals and melting temperatures of various metals. Emphasis is placed on root penetration and fusion of welded materials. Completers should be able to weld in their professional area. Tool room fee of \$19 for equipment applies.

DMT 1110**Diesel Engine Overhaul****4:4:0 Fall, Spring**

* Prerequisite(s): Minimum ACT Reading score of 16 or Accuplacer score of 60

* Corequisite(s): DMT 111L Recommended

Studies diesel engine operating principles, factors affecting performance, design variations, and identification of components. Involves theory of disassembly and reassembly of diesel engines following industry standard overhaul procedures. Covers the identification, inspection, and measuring of parts to determine condition for reuse. Uses failed components to assist in teaching troubleshooting skills. Provides theory of engine tune-up processes on various engines used by industry. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 111L**Diesel Engine Overhaul Lab****2:0:6 Fall, Spring**

* Prerequisite(s) or Corequisite(s): DMT 1110

Provides hands on experience in diesel engine operating principles, factors affecting performance, design variations, and identification of components. Requires disassembly and reassembly of diesel engines following industry standard overhaul procedures. Covers the identification, inspection, and measuring of parts to determine condition for reuse. Utilizes failed components to assist in teaching troubleshooting skills. Tool room fee of \$19 for equipment applies. Course Lab fee of \$22 for materials applies.

DMT 1120**Diesel Engine Operation Tune Up****4:4:0 Fall, Spring**

* Prerequisite(s): DMT 1110

* Corequisite(s): DMT 112L Recommended

Continues the study of engine components and controls, operating systems, as well as performance factors. Provides the opportunity to study component replacement, tune-up adjustments, and preparing to run an engine under load in a dynamometer test cell. Emphasis on basic engine operating factors, and troubleshooting complaints such as low power, smoke conditions, engine faults, etc. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 112L**Diesel Engine Operation Tune up Lab****2:0:6 Fall, Spring**

* Prerequisite(s) or Corequisite(s): DMT 1110

Continues the the study of engine components, operating systems, and performance factors. Provides opportunity to perform hands on component replacement and tune-up adjustments. Provides the opportunity to run an engine under load in a dynamometer test cell. Emphasizes basic engine operating factors and troubleshooting complaints, such as low power, smoke conditions, engine faults, etc. Tool room fee of \$19 for equipment applies. Course Lab fee of \$27 for materials applies.

DMT 1510**Electrical Systems Theory****4:4:0 Fall, Spring**

* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better

Corequisite(s): DMT 151L Recommended
Studies theory of operation, troubleshooting and adjustment of heavy duty mobile electrical systems. Uses state-of-the-art testing equipment. Includes safety and environmental awareness. Offered on the block. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 151L**Electrical Systems Lab****2:0:6 Fall, Spring**

* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better

* Prerequisite(s) or Corequisite(s): DMT 1510

Provides hands-on experience in basic circuitry, digital volt/ohm meter usage. Studies electrical component identification, troubleshooting and repair, charging system troubleshooting and repair, starting system troubleshooting and repair, electrical safety, and preventative maintenance. Tool room fee of \$19 for equipment applies. Course Lab fee of \$30 for materials applies.

DMT 1520**Engine Electronics and Diagnostics Theory****4:4:0 Fall, Spring**

* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better

* Corequisite(s): DMT 152L Recommended

Studies operation and troubleshooting of late model electronic controls for diesel engines. Utilizes factory methodology and approved test equipment. Discusses dynamometer testing and adjustment. Covers DOT vehicle lighting installation, troubleshooting and repair. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 152L**Engine Electronics and Diagnostics****2:0:6 Fall, Spring**

* Prerequisite(s): AUT 1260 (or any MAT or MATH course 1000 or higher) with a C- or better

* Prerequisite(s) or Corequisite(s): DMT 1520

For Second and Third semester students. Provides hands-on experience in troubleshooting and repair of heavy duty electrical systems and electronic engine management. Covers heavy duty truck and trailer lighting, monitoring and control systems. Emphasizes DOT safety regulations requirements. Teaches mechanical fuel injection pumps, fuel injectors and speed governing. Studies electronic engine diagnostic tools, engine sensors, and circuitry. Tool room fee of \$19 for equipment applies. Course Lab fee of \$25 for materials applies.

DMT 2230**Heating Ventilation Air Conditioning and Refrigeration Theory****2:2:0 Fall, Spring**

* Prerequisite(s): AUT 1160 Recommended

* Corequisite(s): DMT 223L Recommended

Teaches the principles of heat transfer using refrigerant as the medium. Emphasizes the identification and operation of individual system components. Discusses the different types of refrigerants used in the mobile industry as well as recovery, recycling, storage, handling, and disposal. Also covers the theory and operation of auxiliary power units used on highway trucks. Software fee of \$10 applies. Course fee of \$10 for materials applies. Lab access fee of \$15 for computers applies.

DMT 223L**Climate Control Lab****1:0:3 Fall, Spring**

Provides hands-on opportunity to locate, identify, test, service, and troubleshoot different types of mobile AC systems using EPA approved equipment & procedures. Students will demonstrate their proficiency using recovery recycling, evacuating, and charging equipment for both R-12 & R-134A refrigerants. Also provides hands-on experience with auxiliary power units used on highway trucks. Tool room fee of \$19 for equipment applies. Course Lab fee of \$19 for materials applies

Course Descriptions

DMT 2310

Fluid Power Theory

4:4:0 **Fall, Spring**

* Corequisite(s): DMT 231L Recommended

Teaches the fundamental principles of fluid power (hydraulics). Emphasizes the relationships between pressure, force, area, and resistance as well as rpm, torque, hydraulic horsepower, and energy. Covers the application and operation of all of the essential components found in a hydraulic system. Introduces various types of circuit designs and schematic symbols. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 231L

Fluid Power Lab

2:0:6 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): DMT 2310

Provides practical lab experience related to the identification, operation, and repair of basic hydraulic system components and circuits. Utilizes various lab equipment or machinery to familiarize students with basic system designs and use of schematics. Emphasizes the use of tools and diagnostic equipment for component and system testing. Tool room fee of \$19 for equipment applies. Course Lab fee of \$17 for materials applies.

DMT 2320

Fluid Power Transmission Theory

2:2:0 **Fall, Spring**

* Corequisite(s): DMT 232L Recommended

Provides instruction in the theory and operation of hydrostatic and automatic transmissions used with heavy equipment. Emphasizes component operation, maintenance, repair, testing, and troubleshooting. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 232L

Fluid Power Transmission Lab

1:0:3 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): DMT 2320

Provides hands on experience with hydrostatic and automatic transmissions. Emphasizes disassembly, reassembly, maintenance, repair, troubleshooting, and the use of diagnostic tools and service manuals. Tool room fee of \$19 for equipment applies.

DMT 2410

Chassis Theory

4:4:0 **Fall, Spring**

* Corequisite(s): DMT 241L Recommended

For third and fourth semester students. Provides theory on maintenance and repair of heavy duty chassis systems. Covers air brake systems, ABS, steering geometry, front end and tandem alignment, steering and load carrying suspensions, and frame maintenance. Emphasizes troubleshooting, highway safety, and preventative maintenance. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 241L

Chassis Lab

2:0:6 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): DMT 2410

For third and fourth semester students. Gives hands on experience in dealing with the operation of, and troubleshooting and repair of modern truck and equipment air brake systems, ABS brakes, foundation brakes and wheel ends, front end and tandem alignments, steering and load carrying suspensions and frame maintenance. Tool room fee of \$19 for equipment applies. Course Lab fee of \$22 for materials applies.

DMT 2420

Power Trains Theory

4:4:0 **Fall, Spring**

* Corequisite(s): DMT 242L Recommended

For third and fourth semester students. Provides theory in maintenance and repair of heavy duty power trains systems. Covers clutches, single and multiple counter shaft transmission, computer controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance. Software fee of \$10 applies. Lab access fee of \$15 for computers applies.

DMT 242L

Power Trains Lab

2:0:6 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): DMT 2420

For third and fourth semester students. Provides hands on experience in maintenance and repair of heavy duty power trains systems. Covers clutches, single and multiple counter shaft transmission, computer controlled transmissions, drive line geometry, differentials and DOT safety requirements. Emphasizes troubleshooting, highway safety, and preventative maintenance. Tool room fee of \$19 for equipment applies. Course Lab fee of \$22 for materials applies.

DMT 281R

Cooperative Work Experience

1 to 8:0:5 to 40 **Fall, Spring**

* Corequisite(s): DMT 285R

Designed for Diesel Mechanics Technology majors. Provides paid, on-the-job work experience in the student's major. Work experience, the correlated class, and enrollment are coordinated by the Cooperative Coordinator. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. May be repeated for a maximum of 16 credits toward graduation. May be graded credit/no credit.

DMT 285R

Cooperative Correlated Class

1:1:0 **Fall, Spring**

* Corequisite(s): DMT 281R

Designed for Diesel Mechanics Technology majors. Identifies on-the-job problems through in-class discussion and study. Includes the study of identifying and maximizing service opportunities. Students register for this class with approval of the Cooperative Coordinator. Includes lecture, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Completers should be better able to perform in their field of work or study.

DMT 291R

Special Projects

1 to 5:0:3 to 15 **Fall, Spring**

* Prerequisite(s): Advisor and Instructor Approval

For students majoring in diesel technology. Involves special projects. Allows independent projects that are designed to enhance beginning or advanced abilities. Repeatable for as many times as desired.

DMT 298R

Technical Workshop

1 to 4:0 to 4:0 to 12 **On Sufficient Demand**

For Diesel Technology students and other interested community members. Tailored to a specific topic, product, component, or vehicle related to the diesel service industry. Its purpose is to update technician training by addressing changes in products or equipment. Topics will vary. May be presented by an OEM, a dealer representative, or faculty member. Repeatable.

DMT 299R

VICA

1:1:0 **Fall, Spring**

Designed for Diesel Mechanics Technology majors. Supports and facilitates the goals and objectives of Vocational Industrial Clubs of America (VICA). VICA is a pre-professional student organization that develops social awareness, civic, recreational, and social activities. Students may participate in local, state, and national contests.

Elec Automat and Robotic Tech (EART)

EART 1050

Applied Electrical Math For EART Technicians

5:5:0 **Fall, Spring**

* Corequisite(s): EART 1130 and EART 1180

Utilizes basic algebraic formulas to calculate voltage, resistance, capacitance, and power. Covers the use of trigonometry for finding volt-amperes, reactance, and watts in AC circuits. Uses phasors, graphs, and sign waves to analyze electronic circuits. Software fee of \$20 applies. Lab access fee of \$35 for computers applies.

EART 1130

Basic Electrical Theory for EART Technicians

4:4:0 **Fall, Spring**

* Corequisite(s): EART 1050 and EART 1180

Covers basic DC and AC theory involving voltage, current, resistance, batteries, magnetism, reactance, power and the use of digital meters. Includes the study of series, parallel, and complex circuits, and troubleshooting techniques. Studies both DC&AC motors and AC transformers. Explains the Reaction Theory of inductance, capacitance, and resistance dealing with L.C.R. circuits. Includes basic Digital Fundamentals of binary number systems and logic gates. Software fee of \$20 applies. Lab access fee of \$35 for computers applies.

EART 1180**Basic Electrical Lab for EART Technicians
5:0:15 Fall, Spring**

* Corequisite(s): EART 1130, EART 1050

Emphasizes lab experiences in basic DC/AC theory such as voltage, current, resistance, batteries, magnetism, wire sizing, splicing, soldering, and conduit bending, troubleshooting, Ohm's Law, series/parallel circuits, combination circuits, capacitors, inductors, resistors, and L.C.R. circuits. Includes safety procedure, basic electrical tools, and electrical symbols. Introduce industrial, commercial, and residential wiring techniques to include contactors, single pole switches, 3 & 4 way switching, low voltage controls, electronic door locks, fire alarm systems, breakers, and panels. Software fee of \$20 applies. Lab access fee of \$35 for computers applies. Course Lab fee of \$25 for materials applies.

EART 1250**Electrical Wiring and Code****2:1:3 Fall, Spring**

* Prerequisite(s): EART 1130, 1050, and 1180; or departmental approval

Covers the National Electrical Code using theory, specifications, blueprints and installation methods pertaining to residential, commercial, and industrial applications. Includes lectures and lab experiences. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EART 1260**Logic****2:1:3 Fall, Spring**

* Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval

For students who desire a basic understanding of Digital Logic systems. Covers the basic logic levels, the 1's and 2's complement. Studies binary, decimal, octal, and hexadecimal numbers. Includes problems using Boolean Algebra, and DeMorgan's theorems. Teaches how to minimize combinational gates and troubleshoot logic circuits. Includes lecture, demonstrations, and lab work emphasizing hands-on lab experiments using logic gate circuits. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EART 1280**DC and AC Machines for EART Technicians
5:5:0 Fall, Spring**

* Prerequisite(s): EART 1130, EART 1050, and EART 1180; or departmental approval

* Corequisite(s): EART 1285

Covers installation, controls, troubleshooting, preventive maintenance, and repairs on DC/AC motors, generators, and control systems. Introduces the students to ladder logic, controls, sensors, overloads, and electronic devices used to control DC/AC Machines. Supports hands-on labs and projects in EART 1285. Software fee of \$20 applies. Lab access fee of \$35 for computers applies.

EART 1285**DC and AC Machines Lab for EART Technicians****4:0:12 Fall, Spring**

* Prerequisite(s): EART 1130, EART 1050, EART 1180

* Corequisite(s): EART 1280

Trains students in the proper use of tools and test equipment needed to maintain motors and their controllers. Emphasizes the use of schematics, line diagrams, ladder logic, pictorial diagrams to wire, design, and repair electrical systems, and DC/AC Machines. Covers how DC, AC, single phase, and three phase motors work and the workings of single phase and three phase transformers used in wye and delta configurations. Course Lab fee of \$14 for supplies/materials applies. Lab access fee of \$35 for computers applies. Software fee of \$20 applies.

EART 2110**Industrial Electronics for EART Technicians I****6:4:6 Fall, Spring**

* Prerequisite(s): EART 1280, and EART 1285; or departmental approval

* Corequisite(s): EART 2250

Introduces students to semiconductor theory including practical labs. Covers the concepts of PN junctions, transistors, voltage amplifiers, diodes, and other special semiconductors. Software fee of \$20 applies. Course Lab fee of \$29 for materials applies. Lab access fee of \$35 for computers applies.

EART 2150**Industrial Hydraulics and Pneumatics****3:2:3 Fall, Spring**

* Prerequisite(s): EART 1280, EART 1285, EART 2250, or departmental approval

* Corequisite(s): EART 2270

Covers the fundamentals of hydraulic and pneumatic components and systems used in industrial applications. Studies pumps, motors, directional and flow control valves, cylinders, transmission, and fluids. Emphasizes maintenance, safety, and environmental problems. Examines troubleshooting techniques and blueprint/print reading. Completers should be able to work with hydraulic and pneumatic systems in correlation with related industrial electrical applications at entry-level jobs in the electrical maintenance field. Includes lecture, demonstration, and lab work. Course Lab fee of \$15 for supplies/materials applies. Software fee of \$20 applies. Lab access fee of \$35 computers applies.

EART 2160**Industrial Electronics for EART Technicians II****5:3:6 Fall, Spring**

* Prerequisite(s): EART 2110 or departmental approval

* Corequisite(s): EART 2270

Teaches the theory and operation of industrial solid state thyristor devices, power circuits, integrated circuits, operational amplifiers, and AD/DC motor devices. Competence in industrial controls with solid state circuits, amplifiers, and variable speed drives will be obtained by the student. Course Lab fee of \$11 for materials applies. Software fee of \$20 applies. Lab access fee of \$35 computers applies.

EART 2250**Industrial Programmable Logic Controllers--PLCs****5:3:6 Fall, Spring**

* Prerequisite(s): EART 1280, EART 1285

* Corequisite(s): EART 2110

Covers the theory, programming and industrial control system applications of small and medium sized programmable logic controllers (PLCs). Studies basic maintenance and troubleshooting techniques for programmable logic controllers. Includes lecture, demonstration, print reading, and lab projects with hands-on experience. Completers should be able to work in industry in related work at entry level positions with safety and environmental awareness. Course Lab fee of \$90 for equipment applies. Software fee of \$20 applies. Lab access fee of \$35 for computers applies.

EART 2260**Advanced Logic****3:2:3 Fall, Spring**

* Prerequisite(s): EART 1260 or departmental approval

* Corequisite(s): EART 2160

Covers theory and industrial applications of Comparators, Decoders, Encoders, Multiplexers, Demultiplexers, Latches (SR and D), Flip Flops (SR, D, and JK), One-shots, Timers, Counters, and Shift Registers. Includes lecture, demonstrations, and lab projects with hands-on experience. Emphasizes implementation and troubleshooting of logic circuits. Completers should be able to work in industry in related work at entry level positions with safety and environmental awareness. Course Lab fee of \$15 for materials applies.

EART 2270**Industrial Programmable Automation Controllers--PACs****6:4:6 Fall, Spring**

* Prerequisite(s): EART 2250 or Departmental Approval

* Corequisite(s): EART 2160, EART 2150

Covers the theory, implementation, and application of advanced Programmable Logic Controller instructions, functions, programming techniques, and data communications. Studies basic programming language and industrial control applications. Includes lecture, demonstrations, and lab projects with hands-on experience. Completers should be able to work in an industrial automated environment. Course Lab fee of \$90 for equipment applies. Software fee of \$20 applies. Lab access fee of \$35 for computers applies.

EART 281R**Cooperative Work Experience****1 to 8:0:5 to 40 Fall, Spring, Summer**

* Prerequisite(s): Approval of Department Chair

Provides paid on-the-job work experience that relates to Electrical Automation and Robotics Technology (EART) in the student's major. Work experience, the related class, and enrollment are coordinated by the EART Cooperative Coordinator. Completers must individually set and complete goals/learning objectives based on the job description from their work assignment. May be graded credit/no credit.

Course Descriptions

EART 285R

Cooperative Correlated Class

1:1:0 Fall, Spring, Summer

* Prerequisite(s): Approval of Department Chair

Designed to identify on-the-job problems and to remedy those problems through in-class discussion and study. Focuses on preparing for, participating in, and utilizing the experiences available from working in a cooperative education/internship program.

Electrical and Computer Engineering (ECE)

ECE 1020

Computer Engineering Problem Solving with MATLAB and LabVIEW

1:1:0 Fall, Spring

* Prerequisite(s): MATH 1050 or higher

Introduces the field of Computer Engineering through programming in the MATLAB and LabVIEW languages. Teaches the design of various components of a prototype communication system while learning about the following aspects of MATLAB: scripts and function files, math functions, commands for array construction and manipulation, string expressions, logic operators, control flow, and graphics. No prior knowledge of computer engineering is assumed. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 2210

Fundamentals of Electric Circuit Analysis

3:3:0 Spring

* Prerequisite(s): MATH 1210, PHYS 2210

* Corequisite(s): ECE 2215

Studies fundamental electric circuit analysis techniques. Develops analysis techniques using Kirchoff's laws, Thevenin and Norton equivalents, superposition, and phasors. Covers transient and steady-state time-domain analysis, and frequency analysis. Lab access fee of \$35 for computers applies.

ECE 2215

Fundamentals of Electric Circuit Analysis Lab

1:0:3 Spring

* Prerequisite(s): MATH 1210, PHYS 2210

* Corequisite(s): ECE 2210

Covers fundamental electric circuit analysis techniques. Develops analysis techniques using Kirchoff's laws, Thevenin and Norton equivalents, superposition, and phasors. Covers transient and steady-state time-domain analysis, and frequency analysis. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 2250

Circuit Theory

3:3:0 Fall, Spring

* Prerequisite(s): MATH 1210, PHYS 2210, ECE 1020

* Corequisite(s): ECE 2255

Develops linear circuit theory and its application in the analysis and design of RLC active circuits. Covers DC, AC, and transient analysis utilizing node and mesh analysis. Introduces the use of CAD tools. Integrates a laboratory. Lab access fee of \$35 for computers applies.

ECE 2255

Circuit Theory Lab

1:0:2 Fall, Spring

* Prerequisite(s): MATH 1210, PHYS 2210

* Corequisite(s): ECE 2250

Laboratory for EENG 2250 develops linear circuit theory and its application in the analysis and design of RLC active circuits. Covers DC, AC, and transient analysis utilizing node and mesh analysis. Introduces the use of CAD tools. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 2700

Digital Design I

3:3:0 Fall

* Prerequisite(s): MATH 1050 or MATH 1055

* Corequisite(s): ECE 2705

Studies the design and application of combinational and sequential logic circuits with discrete and programmable logic devices. Lab access fee of \$35 for computers applies.

ECE 2705

Digital Design I Lab

1:0:2 Fall

* Prerequisite(s): MATH 1050 or MATH 1055

* Corequisite(s): ECE 2700

Designed to accompany ECE 2700. Covers design of digital systems with discrete and programmable logic devices. Includes the use of CAD tools for system design and verification. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 2760

Introduction to Semiconductor Theory and Nanotechnology

3:3:0 Spring

* Prerequisite(s): MATH 1060 or higher (MATH 1090 not included)

Introduces the theory of semiconductor materials and devices. Provides an understanding of Nano/microfabrication technology and the physics of semiconductor devices. Covers design principles for the fabrication of newly developed devices and applications.

ECE 3250

Power Systems Engineering

3:3:0 Spring

* Prerequisite(s): ECE 2250, University Advanced Standing, and (Formal Acceptance into the Electrical Engineering Program, or Departmental Approval)

Introduces power system analysis and design with the aid of a personal computer. Emphasizes AC power generation, distribution and usage. Covers single-phase and 3-phase power, motors, generators, power distribution and the grid, generation plants, smart grids, and power flow control.

ECE 3350

Control Systems

3:3:0 Spring

* Prerequisite(s): ECE 2250, University Advanced Standing, and (Formal Acceptance into the Electrical Engineering Program, or Departmental Approval)

Introduces the theory and practice of control systems engineering. Covers modeling in the frequency and time domains, analog and discrete transfer function models, reduction of multiple subsystems, system response specifications, control system characteristics, root locus analysis and design, frequency response analysis and design. Emphasizes computer-aided analysis.

ECE 3450

Electromagnetics and Transmission Lines

3:3:0 Spring

* Prerequisite(s): PHYS 2220, ECE 2250, University Advanced Standing, and (Formal Acceptance into the Electrical Engineering Program, or Departmental Approval)

Introduces the fundamentals of electromagnetic field theory and application: vector analysis, electric and magnetic fields, potential theory, dielectric and magnetic material properties, conductance, capacitance, and inductance, Maxwell's equations and circuit concepts. Explains transmission lines as a bridge to understanding electromagnetic field theory. Covers basic principles of radiation and propagation in waveguides and antennas.

ECE 3710

Applied Probability and Statistics for Engineers and Scientists

3:3:0 Fall, Spring, Summer

* Prerequisite(s): MATH 1210 and University Advanced Standing

Studies probability and statistical theory with an emphasis on engineering and computer science applications. Covers descriptive statistics, discrete and continuous random variables, probability distributions, hypothesis testing, expectation, estimation, ANOVA testing, and regression analysis. Includes computer analysis of data and simulation. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 3730

Embedded Systems I

3:3:0 Fall

* Prerequisite(s): ECE 2700 and University Advanced Standing

Presents an introduction to the basic building-blocks and the underlying scientific principles of embedded systems. Covers both the hardware and software aspects of embedded processor architectures and assembly language programming. Develops the theory and technology necessary for the interconnection of devices and systems to microcontrollers by using hardware and software examples and students' projects. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 3740
Digital Design II
3:3:0 **Spring**
 * Prerequisite(s): ECE 2700 and University Advanced Standing

Covers the design and verification of digital systems. Emphasizes hierarchical design principles and the use of programmable logic devices (PLDs). Utilizes modern CAD tools and design languages (VERILOG). Lab access fee of \$35 for computers applies.

ECE 3750
Engineering Analysis
3:3:0 **Fall**
 * Prerequisite(s): MATH 1220, ECE 1020, and University Advanced Standing

Studies Linear systems, abstract vector spaces, matrices through eigenvalues and eigenvectors, solution of ordinary differential equations, Laplace transforms, first order systems, and complex numbers. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 3760
Electronic Systems
3:3:0 **Spring**
 * Prerequisite(s): ECE 2250, PHYS 2220, and University Advanced Standing
 * Corequisite(s): ECE 3765

Introduces semiconductor theory and the fundamentals of diode and transistor operation. Covers the use of discrete and integrated active devices in linear amplifier and switching applications. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 3765
Electronic Systems Lab
1:0:2 **Spring**
 * Prerequisite(s): ECE 2255, PHYS 2220, and University Advanced Standing
 * Corequisite(s): ECE 3760

Designed to accompany ECE 3760. Covers electronic analog circuit design, simulation, construction, debugging and measurement of circuit performance quantities using advanced instrumentation techniques. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 3770
Signals and Systems
3:3:0 **Spring**
 * Prerequisite(s): ECE 3750 and University Advanced Standing

Studies the time and frequency domain analysis of continuous time systems subjected to periodic and nonperiodic input signals. Introduces signal and transform theory and the application of Laplace and Fourier transforms. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 3780
Communication Systems and Circuits
3:3:0 **Spring**
 * Prerequisite(s): ECE 3770, University Advanced Standing, and (Formal Acceptance into the Electrical Engineering Program, or Departmental Approval)

Introduces the fundamentals of electronic communication systems and circuits. Covers pulse code modulation, line coding, information rate, equalization, amplitude modulation, angle modulation, and noise in communication systems.

ECE 4730
Embedded Systems II
3:3:0 **Spring**
 * Prerequisite(s): ECE 3730 and University Advanced Standing

Presents the design of hardware and software required for embedded, real-time systems. Covers types of real-time systems, fuzzy logic, sensors, real-time operating systems, C programming skills, and wireless sensor networks. Lab access fee of \$35 for computers applies.

ECE 4740
Queuing Theory
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): STAT 2040, ECE 3750, and University Advanced Standing

Includes computer systems network modeling using stochastic processes: queuing theory models, performance analysis, resource allocations, large-system response parameters. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 4750
Digital Signal Processing
3:3:0 **Fall**
 * Prerequisite(s): ECE 3770, ECE 3710, and University Advanced Standing

Introduces the theory of digital signal processing and its application to practical problems. Covers z-transforms, discrete-time Fourier transforms, FIR (Finite Impulse Response) and IIR (Infinite Impulse Response) digital filter design. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 4760
VLSI Design
3:3:0 **Fall**
 * Prerequisite(s): ECE 3760 and University Advanced Standing
 * Corequisite(s): ECE 4765

Focuses on theories and techniques of VLSI design on CMOS technology. Studies the fundamental concepts and structures of designing digital VLSI systems, including CMOS devices and circuits, standard CMOS fabrication processes, CMOS design rules, static and dynamic logic structures, interconnect analysis, CMOS chip layout, simulation and testing, low power techniques, design tools and methodologies, VLSI architecture. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 4765
VLSI Design Laboratory
1:0:2 **Fall**
 * Prerequisite(s): ECE 3765 and University Advanced Standing
 * Corequisite(s): ECE 4760

Designed to accompany ECE 4760. Teaches students the complete process of building a ready-to-fabricate CMOS integrated circuit using a commercial design software. Lab experiments include the layout design of CMOS transistors, gate level design, design using VHDL, CHIP design and pin configuration, and simulation of the circuit for slack time and power consumption. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 4770
Artificial Neural Networks
3:3:0 **Fall**
 * Prerequisite(s): MATH 1210 and University Advanced Standing

Introduces a range of topics in the field of artificial neural networks: modeling of brains, applicable algorithms, and related applications. Develops the theory of a number of neural network models such as Perceptron, Multilayer Perceptron, and Hopfield networks. Emphasizes algorithms for implementing simple artificial neural networks and their applications. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

ECE 4780
Wireless and Mobile Communications
3:3:0 **Spring**
 * Prerequisite(s): MATH 1210, ECE 2250, and University Advanced Standing

Covers the fundamentals of analog and digital wireless communications. Includes baseband and bandpass, analog and digital signaling techniques along with appropriate mathematical background in Fourier transforms, probability and random variables. Introduces both software and hardware designs.

ECE 4800
Computer Engineering Senior Design Project
3:3:0 **Fall, Spring**
 * Prerequisite(s): ECE 3740 and University Advanced Standing

Serves as a project-oriented capstone course for computer engineering majors. Emphasizes major hardware and software design. Includes identification and completion of a suitable design project to be mutually selected by the faculty supervisor and student. Requires weekly written and oral presentations as well as a final written project report and an oral presentation. Requires completion of a program level assessment test. Software fee of \$10 applies. Course fee of \$27 for materials/testing applies. Lab access fee of \$35 for computers applies.

ECE 4900
Electrical Engineering Capstone I
3:3:0 **Fall**
 * Prerequisite(s): ECE 3350 and University Advanced Standing

Focuses on team-oriented design projects. Incorporates engineering standards and realistic constraints including economic, environmental, sustainability, manufacturability, ethical, health and safety, social, and political. Emulates the problems encountered by engineers working in commercial, industrial, and governmental entities. Capstone I and II must be taken in consecutive semesters.

ECE 490R
Advanced Current Topics in Computer Engineering
1 to 3:1 to 3:0 **On Sufficient Demand**
 * Prerequisite(s): Department Approval and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in computer engineering. Varies each semester depending upon the state of technology. May be repeated for a maximum of 6 credits toward graduation without prior written department approval.

Course Descriptions

ECE 491R

Independent Study 1 to 3:0 to 3:0 to 9

* Prerequisite(s): Prior written Department Chair approval and University Advanced Standing.

Offers independent study as directed by a faculty advisor in reading, individual projects, etc. Varies each semester depending upon the state of technology. A maximum of 3 credit hours may be counted towards graduation without prior written Department approval.

ECE 4950

Electrical Engineering Capstone II

3:3:0 Spring

* Prerequisite(s): ECE 4900 and University Advanced Standing

Serves as a second semester of the two-semester design experience from conception to modeling or prototype. Focuses on team-oriented design projects. Incorporates engineering standards and realistic constraints including economic, environmental, sustainability, manufacturability, ethical, health and safety, social, and political. Emulates the problems encountered by engineers working in commercial, industrial, and governmental entities. Capstone I and II must be taken in consecutive semesters.

Edu Child and Family Studies (ECFS)

ECFS 208R

Directed Readings

1 to 4:0:3 to 12 On Sufficient Demand

For second-year ECFS students. Includes readings with analysis and discussion of selected topics in child education and family relationships. Requires approval of the department for registration. May be taken for a maximum of four credits.

ECFS 2900

Independent Study

1 to 5:1:0 to 12 Fall, Spring, Summer

* Prerequisite(s): Approval of ECFS Department

Provides independent study through faculty-directed individual projects related to working with children and families. Possible areas of study include curriculum, behavior management, program administration, family studies, and case studies in applied theory.

ECFS 3320

Gender Perspectives in Education

3:3:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

For educators, counselors, student teachers, those wanting to recertify, and other interested students. Explores gender issues that may affect the educational experience of girls and boys. Examines history, biases, myths, and stereotypes. Develops sensitivity to issues of gender through discovery learning. Assists participants to recognize cultural and individual issues as they pertain to gender.

ECFS 4720

Characteristics and Identification of Gifted Students

3:3:0 On Sufficient Demand

* Prerequisite(s): Permission of instructor and University Advanced Standing

Designed for senior teacher education students and in-service teachers. Reviews different conceptualizations of intelligence and giftedness and practices and instruments used for identification. Describes characteristics and cognitive, social and developmental needs of gifted students.

ECFS 4730

Teaching Gifted Students

3:3:0 On Sufficient Demand

* Prerequisite(s): ECFS 4720, Instructor Permission, and University Advanced Standing

For senior education students and in-service teachers in local schools. Describes the various settings in which gifted students are served. Reviews instructional strategies and assessment appropriate to teaching gifted students, and strategies for dealing with parents.

ECFS 492R

Special Topics in Gifted Education

3:3:0 On Sufficient Demand

* Prerequisite(s): (EDEL 3000 or EDSC 3000), Instructor Permission, and University Advanced Standing

Designed for senior education students and local in-service teachers. Includes topics, such as underserved populations of gifted students, contemporary issues in gifted education, creativity, etc. May be repeated 3 times for credit.

ECFS 494R

Special Topics in Educational Psychology

3:3:0 On Sufficient Demand

* Prerequisite(s): (EDEL 3000 or EDSC 3000), Instructor Permission, and University Advanced Standing

Explores topics in educational psychology as it relates to classrooms. Includes topics, such as motivation to learn and succeed, classroom application of learning and cognition, role of emotion in learning, etc. Varies each semester. May be repeated 3 times for credit.

Economics (ECON)

ECON 1010

Economics as a Social Science

3:3:0 SS

An introductory course which studies the operation of a mixed market system, including production, domestic and global trade, and labor-management economics. Includes business cycles and monetary and fiscal policies designed to modify those cycles. Canvas Course Mats \$78/McGraw applies

ECON 2010

Microeconomics

3:3:0 SS

* Prerequisite(s): MATH 1050, MATH 1055, or MATH 1090 or higher.

Designed for business management transfer students and as elective credit for other business students desiring economic decision-making skills. Covers intermediate microeconomics. Uses lecture, class discussion, videos, student presentations, and computer simulation. Completers should be ready to take university upper-level economics courses and to make upper-level management decisions. May be delivered online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$72/McGraw applies.

ECON 2020

Macroeconomics

3:3:0 SS

* Prerequisite(s): MATH 1050, MATH 1055, or MATH 1090 or higher

Required for all business management students. Introduces macro and microeconomics. Presents the necessary economic background to prepare students to function as citizens in business in a world economy and understand the role of economic policy in the United States. Uses lecture, class discussions, student presentations, computer simulations, and videos. Completers should have the necessary prerequisite knowledge to successfully gain admittance to upper-division university economics courses. May be delivered online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$72/McGraw applies.

ECON 3010

Intermediate Microeconomics

3:3:0 Fall

* Prerequisite(s): ECON 3340 and (MATH 1100 or MGMT 2240 with a B or higher in each), Matriculation into the Woodbury School of Business, and University Advanced Standing

Covers intermediate microeconomic theory for economics and finance majors planning on extending their economics training into econometrics, mathematical economics and other related courses. Reviews microeconomic theory and models to develop an understanding of, and ability to use, modern microeconomic theory, measurement, and policy.

ECON 3020

Managerial Economics

3:3:0 Fall, Spring

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Extends the discussion of economic theory of markets, demand and supply, elasticity, and marginal analysis process to make more effective decisions. Emphasizes an applied approach using basic theoretical concepts. Discusses the concepts of production theory and cost analysis in both the short and long run. Describes how to apply economic decision making in a variety of competitive markets including perfect competition, monopoly, monopolistic competition and oligopoly. Reviews elements of risk and uncertainty in a microeconomic framework. Canvas Course Mats \$72/McGraw applies.

ECON 3030

Intermediate Macroeconomics

3:3:0 Spring

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Extends discussion of models of income determination, economic growth theory, analysis of fiscal and monetary policy theory, international trade issues, and alternative views related to the impact of macro theory in the US and world economies. Prepares economics majors for other advanced economic theory and policy courses.

ECON 3040

Environmental Economics

3:3:0 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

Introduces economic issues of ecological and environmental theory and policy. Identifies the economic tools appropriate for the analysis of ecological and environmental challenges for an inter-disciplinary group of engineering, science, social science, and natural resources management professionals. Presents the microeconomic concepts useful for reviewing these types of issues. Evaluates public policy issues related to environmental, ecological, and natural resource challenges.

ECON 305G

International Economics

3:3:0 Spring

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Covers theoretical and practical concepts of international trade, policy, and finance in a global economy. Reviews both micro topics such as comparative advantage and trade policy as well as macro issues such as balance of payments, exchange rates, and global capital markets. Includes coverage of cultural and intercultural relationships that exist within an economic context.

ECON 3060

Money and Banking

3:3:0 Fall, Spring, Summer

* Prerequisite(s): Matriculation into any Woodbury School of Business program and University Advanced Standing

Studies the US financial system including primary institutions and markets. Includes analysis of the Federal Reserve System, American and International financial markets. Reviews the impact of monetary policy on financial institutions and financial intermediation. Presents the term structure of interest rates, money, capital, and mortgage markets, and management of financial institutions and insurance companies.

ECON 3340

Managerial Statistics

3:3:0 Fall, Spring

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Studies advanced managerial concepts. Includes multiple regression, ANOVA, test of hypotheses, and time series techniques. Emphasizes statistical modeling, statistical decision-making, and is computation intensive. Lab access fee of \$32 for computers applies.

ECON 3370

Economic Modeling and Quantitative

Analysis

3:3:0 Fall

* Prerequisite(s): Matriculation into Woodbury School of Business, ECON 3340, and University Advanced Standing

Discusses economic modeling, quantitative methods and applications in economics. Covers intermediate mathematical tools required for economic and financial analysis. Prerequisite course for econometrics.

ECON 3810

Labor Economics

3:3:0 On Sufficient Demand

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Provides an analysis of the theory and practice of labor markets. Defines the factors that influence the demand and supply of labor in a modern economy. Develops the concepts for a theory of human capital. Reviews factors such as wage determination, occupational differences, problems of gender, labor turnover, discrimination, impacts of education and training, impacts of labor unions, immigration, changes in technology, and other related issues. Lab access fee of \$32 for computers applies.

ECON 3820

Economic Development

3:3:0 Fall

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Describes and evaluates economic models of development in third world and emerging economies. Includes a review of theories of economic growth, the importance of creating new economic institutions, the importance of education and human capital development, and the importance of creating stable political and social cultures in the development of modern economic systems. Lab access fee of \$32 for computers applies.

ECON 3830

History of Economic Thought

3:3:0 Fall

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Traces the evolution of formal economic theory primarily beginning with Adam Smith, the first classical economic theorist. Studies other classical writers including Ricardo and Malthus as well as Marx's criticisms. Studies neoclassical analysis through Marshall and the critiques of the Austrian school. Reviews the modern theorists including Keynes and the development of macroeconomics, the development of empirical and mathematical economic theories, monetarism, and other post-Keynesian analysis. Lab access fee of \$32 for computers applies.

ECON 4010

Advanced Microeconomics

3:3:0 Spring

* Prerequisite(s): ECON 3010 and University Advanced Standing

Advanced course in microeconomics for economics majors. Addresses the issues related to modern economic theories of imperfect competition, the market of factors of production, cost analysis, the distribution of income, general equilibrium, and welfare economics.

ECON 4020

Advanced Macroeconomics

3:3:0 On Sufficient Demand

* Prerequisite(s): ECON 3030, ECON 3340, and University Advanced Standing

Advanced course in macroeconomics for economics majors. Designed to give economics graduates an understanding of advanced modern macroeconomic theory including traditional macro issues, models with incomplete nominal adjustment, inflation theory, dynamic inconsistency and recent theories of unemployment.

ECON 4040

Game Theory

3:3:0 On Sufficient Demand

* Prerequisite(s): ECON 4010, ECON 4320, and University Advanced Standing

Designed to give students the skills to assess economic and social issues where strategic interaction is relevant. Teaches students to condition their responses based on the reactions and behavior of other individuals rather than merely in response to outside constraints, which is the usual approach to optimization theory. Provides concepts, tools, and experience to deal with game theory situations.

ECON 4100

Analysis of Financial Institutions and Markets

3:3:0 Fall

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Studies money, banking, and financial markets from an economics perspective. Examines the structure of interest rates and their influence in financial markets. Reviews financial instruments, financial intermediaries, banking institutions and the types of assets and liabilities common to those systems. Covers money supply and money demand within the central banking system.

ECON 4150

Public Finance

3:3:0 Spring

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Designed as elective credit for Business Management and other bachelor of science degree majors. Develops knowledge, skills, and attitudes required for those employed in and analyzing the public sector. Describes the three levels within the public structure including respective purposes and functions, revenue generation alternatives, budgeting, deficit financing, public choice, income redistribution, public goods, and externalities. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies.

ECON 4320

Mathematical Economics

3:3:0 Fall

* Prerequisite(s): ECON 3340, ECON 3010, and University Advanced Standing

Discusses advanced concepts in economic modeling, the application of mathematical models in economic analysis, and advanced research methods in economics. Covers advanced mathematical applications in economics and finance for students interested in advanced econometric analysis and model building. Lab access fee of \$32 for computers applies.

Course Descriptions

ECON 4340

Econometrics Applications

3:3:0 **Spring**

* Prerequisite(s): ECON 3370 and University Advanced Standing

Provides an opportunity for economics students with mathematical and statistical skills to apply those capabilities in real-world applications of the science of econometrics. Examines some of the well-known examples of econometric analysis that formed the foundation of econometrics science. Develops analytical skill by defining data inputs and working through a series of projects of the type students might encounter in future professional experience. Lab access fee of \$32 for computers applies.

ECON 4500

US Economic Development and History

3:3:0 **Spring**

* Prerequisite(s): Matriculation in the Woodbury School of Business, University Advanced Standing

Provides an analysis of the economic development of the United States. Describes the factors that led to the development of colonies in the Americas and the causes of the Revolution and formation of a government. Describes the economic causes for western expansion, transportation development, and the rise of American capitalism. Reviews the shift from agrarian to industrial development, the economic development of big business and big government, the impact of depression, and the economics of world war and peace. Lab access fee of \$32 for computers applies.

ECON 494R

Special Topics in Economics

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Departmental approval and University Advanced Standing

Provides short courses, workshops, and special programs in economics and current business and public policy topics. May be repeated for a maximum of 6 credits toward graduation.

ECON 4960

Senior Seminar Current Economic Issues

3:3:0 **Fall, Spring**

* Prerequisite(s): Department Chair Approval and University Advanced Standing

Provides exposure to emerging topics of current interest in economics. Topics vary each semester. Lab access fee of \$32 for computers applies.

ECON 4970

Economic Research Design and Implementation

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

Defines the scientific approach to managerial decision-making and project management. Describes issues related to problem definition, model development, data collection, model implementation using the data, model validation, results analysis, and using the findings to implement changes to solve problems. Examines both quantitative and qualitative models and methods. Allows students to work on real-world projects through the Utah Community Research Group (Utah CRG) and its research partners.

ECON 6300

Managerial Economics

3:3:0 **Spring**

* Prerequisite(s): Acceptance in the MBA program

Applies concepts and theories, based on managerial economic to business problems. Analyzes cost theory, pricing, market structures, and forecasting.

ECON 6330

Econometrics

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance in the MBA program

Provides graduate level introduction to applied regression tools, including simple and multivariate regression analysis; linear, nonlinear, and qualitative dependent variable models; distributed lags; seemingly unrelated regression, and model specification and validation tests.

Edu Early Childhood Education (EDEC)

EDEC 1640

Childrens Music and Movement

2:2:0 **Spring**

For Early Childhood majors and those interested in teaching music to children in early childhood education settings. Covers childhood music, past and present, strategies for teaching music and movement. Explores music appreciation, creative and structured music and movement activities for young children. Introduces musical instruments and their use. Examines music and movement curricula and learning environments. Course fee of \$10 for materials applies.

EDEC 2300

Including Young Diverse Learners

2:2:0 **Fall**

* Prerequisite(s): PSY 1100; ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-

Introduces ECE majors to the implications of diversity and exceptionality in young children. Emphasizes positive impact of diversity in children's educational environment, birth to age eight. Introduces anti-bias strategies to address diversity. Emphasizes inclusive and adaptive strategies for supporting young children with exceptionalities. Ten hour field experience is required.

EDEC 2500

Child Development Birth to Eight Years

3:3:0 **On Sufficient Demand**

* Prerequisite(s): PSY 1100; ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-

For Early Childhood students. Emphasizes growth in all domains. Covers milestones of development, supportive parental and care giver behaviors, influence of out-of-home care, role of play, and creating a supportive environment. Includes 15 hours of structured observation, assessment, and interaction with young children.

EDEC 2600

Introduction to Early Childhood Education

2:2:0 **Fall, Spring**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-

For all Early Childhood students. Introduces early childhood program requirements and the field of early childhood education. Focuses on the historical and philosophical foundations of early childhood education emphasizing developmentally appropriate practices, constructivism, and integrated, child-centered curriculum. Introduces students to components that identify quality programs for children birth to 8 years of age.

EDEC 2610

Child Guidance

3:3:0 **Fall, Spring**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-

For all Early Childhood majors. Studies development of positive self-concept, social behaviors, empathy, independence, responsibility and effective communication in children. Includes 20 field hours of structured observation, assignments, and interaction with young children.

EDEC 2620

Early Childhood Curriculum

3:3:0 **Fall, Spring**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-, EDEC 2600 recommended

A core course for Early Childhood students and others interested in working with young children. Covers integrated developmentally appropriate activities, particularly Math, Science, Creative Arts, and Play. Emphasizes lesson plan development, routines and schedules, curriculum philosophies, presentation skills, and resource file development. Uses in-class demonstrations, group interaction, and hands-on participation. Includes curriculum planning to facilitate integration of state core curriculum standards in K-3. Course fee of \$10 for materials applies.

EDEC 2630

Literacy and Literature for Early Childhood

3:3:0 **Fall, Spring**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-

For Early Childhood students. Introduces practical aspects of fostering literacy development in young children. Focuses on emerging and early literacy in the home, early care, and education settings (infancy through age eight), with an emphasis on ages four through six. Studies strategies for holistic integration of the various literacy processes. Addresses the role of children's literature, the relationship between early language development and literacy opportunities and methods for developing language and positive attitudes toward books.

EDEC 2700**Early Childhood Practicum****3:3:0** **Fall, Spring**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-, EDEC 2600 with a B- or higher

* Corequisite(s): EDEC 2720

* Prerequisite(s) or Corequisite(s): EDEC 2610 and EDEC 2620

A core course for Early Childhood Education certificate and Associate Degree majors. Provides support teaching experiences in the partnership preschools. Includes planning and implementing learning plans, interactions with and guidance of children individually and in small groups, parent education opportunities, and application of technology. Requires 6 hours per week of assigned field experience with children. Course fee of \$25 for materials applies.

EDEC 2720**Early Childhood Assessment****2:2:0** **Fall, Spring**

* Prerequisite(s): ACT (or equivalent) composite score of 21+, or completion of ENGL 1010 (or higher) with a minimum grade of C-, EDEC 2600 with a B- or higher

* Corequisite(s): EDEC 2700

* Prerequisite(s) or Corequisite(s): EDEC 2620

Implements assessment with children in the Teacher Education Preschool including anecdotal notes, checklists, event sampling, and logs. Connects daily child and program assessment to preschool curriculum planning and implementation. Prepares child portfolio assessment and use in conference with child and parents. Includes personal professional portfolio assessment.

EDEC 3820**Assessment in the PreK-K classroom****3:1:6** **Fall, Spring**

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): EDEC 2620

Implements assessment with children in a Pre-K or Kindergarten classroom including anecdotal notes, checklists, event sampling, and logs. Connects daily child and program assessment to state and common core kindergarten curriculum planning and implementation. Prepares child portfolio assessment for use in conference with child and parents. Includes personal professional portfolio assessment.

Edu Elementary Education (EDEL)

EDEL 1010**Introduction to Education****2:2:0** **Fall, Spring, Summer**

For students interested in careers in education. Facilitates matriculation into professional education programs. Examines the relationships of teaching, learning, motivating, and instructing in classroom settings. Includes observation in public schools to help students understand these relationships and appreciate the role of professional educators in today's society. Requires substantial commitment of time to off-campus field experiences.

EDEL 2200**Computer Technology in Education****2:2:0** **Fall, Spring, Summer**

For Elementary Education students and others interested in evaluation, selection, and use of technology for children. Covers limitations of computer applications for children. Provides criteria for selecting software appropriate for children's use and strategies for teaching computer skills to children. Includes hands-on experience with computers. May be delivered online. Lab access fee of \$20 for computers applies.

EDEL 2330**Childrens Literature****3:3:0** **Fall, Spring, Summer**

For Elementary Education students and others interested in children's literature. Evaluates children's books in several genres. Examines selected books, picture books, easy reading and intermediate novels. Studies illustrators and their styles. Includes lecture, demonstration, guest lecturers, and audiovisuals. Completers should have a good knowledge of what is current and of value in literature for children, infancy through adolescence.

EDEL 3000**Educational Psychology****3:3:0** **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

Stresses research-based teaching/learning principles used in a classroom setting to enhance learning. Includes study of parent education, involvement, and support strategies, and collaboration with community agencies and professionals. Emphasizes the application of theory to practice with emphasis on teacher-student instructional interaction and teacher/parent/community agency interactions.

EDEL 3050**Foundations of American Education****2:2:0** **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

Provides a broad and comprehensive overview of American education. Facilitates the understanding of current educational practices in America as a result of the social, historical, economic, and political forces that have had influence on the education system. Provides opportunities for students to evaluate their own belief system concerning education.

EDEL 3100**Kindergarten Classroom****2:2:0** **Fall, Spring**

* Prerequisite(s): (Formal admission to the Elementary Education Program or Department Chair Approval) and University Advanced Standing

Examines the development of the whole kindergarten child and the teacher behaviors that facilitate the development of pro-social behavior, friendships, communication and problem solving skills in young children. Addresses the role of the classroom environment and instructional strategies in the kindergarten classroom that promote development of self-regulation in children. Reviews all domains of the Common Core Curriculum in kindergarten and introduces multiple DAP strategies for teaching each content area using the Teaching Continuum with Direct Instruction and the Gradual Release Model on one end, Scaffolding in the middle, and Inquiry Model on the other end.

EDEL 3250**Instructional Media****2:2:0** **Fall, Spring**

* Prerequisite(s): EDEL 2200 with a B- or higher, (Formal admission to the Elementary Education Program or Department Chair Approval), and University Advanced Standing

For Elementary Education students. Covers applications of desktop computers and other instructional technologies in classroom settings. Lab access fee of \$20 for computers applies.

EDEL 330G**Multicultural Understanding****3:3:0** **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Education students. Discusses implications of human diversity for major societal institutions. Addresses the impact of diversity in children's education environments, ages birth through adolescence. Focuses on linguistic, cultural, ethnic, familial, religious, developmental, and gender diversity. Emphasizes inclusive, anti-bias classroom strategies for supporting learning and development of diverse students. Encourages examination of personal beliefs and attitudes about diversity.

EDEL 3350**Curriculum Design and Assessment****3:3:0** **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Education students. A beginning course in curriculum design and assessment of program effectiveness and student achievement. Covers theory and practice.

EDEL 4200**Classroom Management I****1:1:0** **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

Presents philosophy, trends and necessities of a well-managed classroom. Discusses the role of management and quality instruction.

Course Descriptions

EDEL 4210

Classroom Management II

1:1:0 **Fall, Spring**

* Prerequisite(s): EDEL 4200 and University Advanced Standing

* Corequisite(s): Admission to Professional Education Program or permission of department chair

Establishes a foundation for selecting a model to follow for the development of a classroom management plan. Considers the role of the teacher and students in developing rules and establishing habits in a classroom setting.

EDEL 4230

Classroom Management III

1:1:0 **Fall, Spring, Summer**

* Prerequisite(s): EDEL 4210 and University Advanced Standing

* Corequisite(s): Admission to Professional Education Program or permission of department chair

Presents strategies for routine management of the classroom environment and materials, and the initial set up of a classroom and management plans. Workday and observation of first day of school in a public school classroom.

EDEL 4240

Classroom Management IV

1:1:0 **Fall, Spring**

* Prerequisite(s): EDEL 4230 and University Advanced Standing

* Corequisite(s): Admission to Professional Education Program or permission of department chair

Presents strategies for handling student misbehavior. Reviews theory and problem solving processes. Explores practical, appropriate responses, particularly behavior modification strategies with an emphasis on self-monitoring. Course Lab fee of \$300 for edTPA Performance Assessment applies.

EDEL 4400

Literacy Methods I

3:3:0 **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

Presents practical and theoretical foundations for fostering reading competence in children, kindergarten thru grade 3. Includes classroom instruction and field experience with children.

EDEL 4410

Literacy Methods II

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

Surveys contemporary issues in literacy instruction in the elementary school years (K-6). Includes content area reading, reading assessment and remediation, and current issues being explored in professional literacy journals. Includes classroom instruction and field experiences with children.

EDEL 4420

Language Arts Methods

3:3:0 **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

Presents methods for teaching reading and language art concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 443G

Teaching English as a Second Language

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Education students. Presents methods for promoting reading competence and fostering literacy in limited English-speaking children, grades K-6. Prepares teachers to teach English as a second language in U.S. public schools. Covers both theoretical and applied aspects of second language learning and teaching and provides techniques, activities, strategies and resources to plan instruction for English language learners (ELLs). The goal of this class is introduce teachers to the teaching of English as a second language not only for linguistic development, but for cognitive, academic and social development as well. Includes classroom instruction and field experiences with children.

EDEL 4510

Elementary Math Methods I

3:3:0 **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Education students. Presents methods for teaching math concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4520

Elementary Science Methods

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Education students. Presents methods for teaching science concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4530

Elementary Social Studies Methods

3:3:0 **Fall, Spring**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Educations students. Presents methods of teaching social studies concepts to children. Includes classroom instruction and field experience teaching children.

EDEL 4540

Elementary Creative Arts Methods

3:3:0 **Fall, Spring**

* Prerequisite(s): (Completion of at least one of the following: ART 3400, THEA 2200, DANC 3400, or MUSC 3400) and (admission to Professional Education Program or department chair permission) and University Advanced Standing

For Elementary Education students. Presents methods for integrating music, art, dance, and drama experiences across the curriculum in grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4550

Elementary Math Methods II

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): EDEL 4510 and University Advanced Standing

For Elementary Education students. Presents methods for teaching math concepts to children, grades K-6. Includes classroom instruction and field experiences with children.

EDEL 4620

Differentiation for Special Populations

2:2:0 **Fall, Spring, Summer**

* Prerequisite(s): (Admission to Professional Education Program or department chair permission) and University Advanced Standing

Includes theory and philosophy for teachers working with diverse populations, grades K-6. Covers appropriate practice for teachers working with diverse populations. Outlines strategies of instruction for diverse populations including content, processes, and assessment for instructional application.

EDEL 4880

Student Teaching--Grades K-6

4 to 10:0:12 to 30 **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education courses, and University Advanced Standing

A culminating 12-week teaching experience in an elementary classroom, grades K-6. Includes application of knowledge, skills, and attitudes derives in previous course work and program experience. Must complete a combined 12-week experience in EDEL 4880. Course Lab fee of \$200 for practical experience applies.

EDEL 491R

Independent Study

2 to 4:0 to 4:0 to 12 **On Sufficient Demand**

* Prerequisite(s): Department Chair Approval and University Advanced Standing

For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for a maximum of 3 credits toward graduation.

EDEL 4980**Elementary Education Capstone Seminar****1:1:0** **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education courses, and University Advanced Standing
* Corequisite(s): EDEL 4880 or EDEL 4890

Integrates previous course work and current student teaching field experience and includes involvement by school personnel. Covers application and interview procedures for acquiring a teaching position. Includes completion of portfolio for the professional teacher education program. Prepares students for beginning of teaching career.

Edu Secondary Education (EDSC)

EDSC 2000**Teacher Education in the Latino Culture****2:2:0** **On Sufficient Demand**

* Prerequisite(s): Departmental Approval

Introduces LET students to the teacher education system. Explores what it means to be a teacher in the Latino culture with emphasis on being a teacher in Utah. Examines general education classes along with teacher education classes in order to help students understand their importance in the education system. Demonstrates the importance of culture and ancestry in teacher education.

EDSC 2010**Content Area Tutoring****2 to 6:1:5 to 25** **On Sufficient Demand**

* Prerequisite(s): Instructor Approval

For those interested in working for tutorial programs on campus. Includes methodology, theory and practice of tutoring and completers will have met the requirements for CRLA tutor certification. Features experience tutoring students who have a variety of learning styles. Prepares teachers to appropriately train and use tutors for all students under their direction.

EDSC 3000**Educational Psychology****3:3:0** **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

Stresses research-based teaching and learning principles used in secondary classroom settings to enhance student learning and motivation. Emphasizes the application of theory to practice. Designed to help students in the professional secondary teacher preparation program prepare for state teacher licensing requirements. Requires service-learning.

EDSC 3050**Foundations of American Education****2:2:0** **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

Provides a broad and comprehensive overview of American education. Facilitates the understanding of current educational practices in America as a result of the social, historical, economic, and political forces that have had influence on the education system. Provides opportunities for students to evaluate their own belief system concerning education.

EDSC 3250**Instructional Media****2:2:0** **Fall, Spring, Summer**

* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

Focuses on using technology in 7-12th grade and addresses the integration of technology in all curricular areas for all students. Investigates theoretical and practical issues surrounding the use of multimedia, Internet resources, Web 2.0 functionality, educational software, and social networking within the curriculum. Examines applications and processes of Educational Technology, 21st Century learning skills, and the impact of national educational technology standards for content areas to teacher pedagogy and development in the classroom. Lab access fee of \$20 for computers applies.

EDSC 4200**Classroom Management I****2:2:0** **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

For Secondary Education students. Teaches effective classroom management procedures (including classroom setup). Develops strategies to build strong student-teacher relationships and classroom management philosophy, rules, and consequences. Teaches strategies for 1st day success as well as strategies to handle behavior problems encountered in the classroom.

EDSC 4250**Classroom Management II****2:2:0** **Fall, Spring*** Prerequisite(s): EDSC 4200, Admission to Professional Education Program and must be taken during student teaching experience, and University Advanced Standing
* Corequisite(s): EDSC 4850

Develops strategies for planning and conducting instruction, dealing with parents, group work, and presents strategies for handling chronic misbehavior and students with behavioral or emotional disorders. Explores practical, appropriate responses, including internal control and behavior modification strategies with an emphasis on self-monitoring. Course Lab fee of \$300 for edTPA Performance Assessment applies.

EDSC 4440**Content Area Literacies****3:3:0** **Fall, Spring**

* Prerequisite(s): Admission to the Professional Education Program and University Advanced Standing

For Secondary Education Students. Prepares pre-service secondary students to facilitate reading, writing and study skills achievement in the content areas at the middle school and secondary school level; for content area teachers with little or no background in reading and writing development. Includes field experience in public schools.

EDSC 445G**Multicultural Instruction ESL****3:3:0** **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

For Secondary Education students. Prepares pre-service secondary students to understand and facilitate achievement in the content areas for ethnically and language diverse students at the middle school and secondary school level. Covers foundations of multicultural education and instructional methodology for adaptation for ESL and ethnically diverse students.

EDSC 4500**Secondary Teaching Methods****3:3:0** **Fall, Spring**

* Prerequisite(s): Acceptance to Professional Secondary Education, EDSC 3000, EDSC 4550, Department Chair Approval, and University Advanced Standing

For students majoring in Secondary Education. Examines teaching methodology as related to teaching and learning. Teaches strategies to prepare teacher candidates for secondary education licensure in relation to a student's major. Utilizes group projects, classroom exercises and teaching projects. Evaluated by participation, teacher evaluation, exams, portfolio, reflective journal and final teaching project.

EDSC 4550**Secondary Curriculum Instruction and Assessment****3:3:0** **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program and University Advanced Standing

For Secondary Education students. Examines state standards; and prepares preservice secondary students to write objectives, lesson plans, and units using appropriate models of instruction and assessment. Includes a field experience component.

EDSC 4850**Student Teaching Secondary****4 to 10:0:12 to 30** **Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education and content courses, and University Advanced Standing

Culminates a thirteen-week teaching experience in a secondary classroom, grades 7-12. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Requires students to be recommended for a secondary education license from the Utah State Office of Education. Course Lab fee of \$200 for practical experience applies.

EDSC 491R**Independent Study****2 to 4:0 to 4:0 to 12** **On Sufficient Demand**

* Prerequisite(s): Department Chair Approval and University Advanced Standing

For Bachelor Degree seeking students and other interested persons. Offers independent study as directed at the discretion and approval of the department chairperson. May be repeated for a maximum of 4 credits toward graduation.

Edu Special Education (EDSP)

EDSP 3400 Exceptional Students 2:2:0

Fall, Spring, Summer

Covers teacher's roles in integration of exceptional students, working with parents and specialists, and in developing individual educational plans for exceptional students. Identifies characteristics and special needs of students who have physical, emotional, social, mental, or health exceptionalities. Stresses curriculum modification necessary for meeting special needs. Requires students to develop a code of personal ethical behaviors specific to teaching exceptional students. Ten hours of field work required.

EDSP 3840 Instruction and Assistive Technology 2:2:0

Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

Provides students with an overview of the field of instructional and assistive technology (IT and AT) and an understanding of how to successfully integrate varied uses of technology into their specific learning environment. Develops students' proficiencies for evaluating technology needs and teaching technology-enhanced learning activities to support students with diverse needs in the classroom.

EDSP 4100 Instructional Strategies and Program Management for Students with Mild/Moderate Disabilities 3:3:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

Provides an overview of the individual education plan (IEP), service delivery patterns, assessment and programming variables, organizational variables, and instruction and classroom management models necessary for teaching students with mild and moderate disabilities. Provides strategies in how to select, adapt, and use a repertoire of evidence-based instructional strategies to advance learning.

EDSP 4110 Special Education Law/Policies/Procedures 3:3:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

Provides overview of the role of the federal, state, and local government in special education issues with special emphasis on case and regulatory law, including Utah regulation. Focuses on six major principles of the Individuals with Disabilities Education Act as they relate to the free and appropriate public education for all students.

EDSP 4120 School to Post-School Transition Planning 2:2:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

Provides students with knowledge, strategies, and resources necessary to prepare students with disabilities for the transition from school to postsecondary education, employment, community participation, and independent living. Provides skills for transition planning and helping students access services necessary to reach their desired outcomes and become as independent as possible. Emphasizes the person-centered planning process, which embeds decisions based on students' preferences, interests, and abilities.

EDSP 4130 Math Instruction for Students with Mild/Moderate Disabilities 2:2:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

* Corequisite(s): EDSP 4131

Provides specific strategies and techniques to use in teaching students with learning difficulties both in pull-out special educational settings and in more inclusive general education settings. Provides math curricula aligned with the Utah Core standards using Utah Effective Teaching standards. Emphasizes how to implement targeted interventions in Math at the Tier 3 level for students who are not making progress at the Tier 1 and Tier 2 interventions.

EDSP 4131 Math Practicum 1:1:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

* Corequisite(s): EDSP 4130

Provides students the opportunity spend time in practicum placements to practice applying skills, competencies, and techniques to teach math to students with mild or moderate disabilities. Provides students with an opportunity to work with practicum coordinators to analyze and solve instructional and management problems by making data-based decisions.

EDSP 4135 Reading and Writing Instruction for Students with Mild/Moderate Disabilities K-12 2:2:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

* Corequisite(s): EDSP 4136

Provides specific strategies and techniques to use in teaching students with learning difficulties both in pull-out special educational settings and in more inclusive general education settings. Course features reading and writing curricula aligned with the Utah Core standards using Utah Effective Teaching standards. Emphasizes evidence-based practices and empirically supported instruction for teaching reading and writing to students with disabilities combined with data based decision making.

EDSP 4136 Reading Practicum 1:1:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

* Corequisite(s): EDSP 4135

Provides students practicum placements to practice applying skills, competencies, and techniques to teach reading and writing to students with mild or moderate disabilities. Provides students with practicum coordinators to analyze and solve instructional and management problems by making data-based decisions.

EDSP 4140 Collaboration and Consultation with Parents and School Staff 3:3:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

Provides strategies for collaborating and communicating with families, other educators, related service providers, individuals with exceptionalities, and personnel from community agencies in culturally responsive ways, and provides a review of interagency collaboration and consultation for life skills. Emphasizes creating multidisciplinary teams and professional learning communities that are prepared to assist parents and other teachers in collaborative problem solving.

EDSP 4160 Assessment and Evaluation in Special Education 3:3:0

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program or department chair permission and University Advanced Standing

Provides an overview of multiple methods of assessment and presents the connection between gathering assessment information and applying results to decisions regarding students' eligibility for special education services. Includes administering eligibility assessment tests, interpreting results, and communicating results of assessment tools.

EDSP 4885 Special Education Student Teaching-- Grades K-6 5 to 10:0:15 to 30

Fall, Spring

* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education courses, and University Advanced Standing

* Corequisite(s): EDSP 4895 and EDSC 4250

Provides a 6-week teaching experience in a special education classroom setting, grades K-6. Provides consultation and feedback through observation forms administered by their university consultant and student teaching mentor. Monitors application of knowledge, skills, and attitudes derived in previous course work and program experience. Course Lab fee of \$200 for practical experience applies.

EDSP 4895

**Special Education Student Teaching--7-12
5 to 15:0:15 to 30 Fall, Spring**

* Prerequisite(s): Admission to Professional Education Program, Successful completion of all professional education courses, and University Advanced Standing
* Corequisite(s): EDSP 4885 and EDSC 4250

Provides a 6-week teaching experience in a special education classroom setting, grades 7-12. Provides consultation and feedback through observation forms administered by their university consultant and student teaching mentor. Monitors application of knowledge, skills, and attitudes derived in previous course work and program experience. Course Lab fee of \$200 for practical experience applies.

Education (EDUC)

EDUC 5100

**Personal Finance in Education
3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Focuses on teaching how to better manage personal finances. Requires students to develop lesson plans on personal financial planning, including goal setting, time value of money, personal financial statements, cash management, credit cards, credit, loans, buying skills, insurance, taxes, housing, investment alternatives, estate and retirement plans.

EDUC 520R

**Special Topics in Education
.5 to 3:0 to 3:0 to 9 On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

Provides professional educators, administrators, policy makers, and interested members of the public with increased understanding of the latest research affecting K-12 education. Focuses on helping participants keep abreast of effective teaching strategies and curriculum design, alternative learning structures, innovative teaching technologies, educational policies and legislation, etc. May be repeated as many times as desired.

EDUC 5300

**Content-based Curriculum and Instruction
and Assessment
3:3:0 Summer**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides a foundation in curriculum theory and practice. Introduces instructional design theories, principles and models. Outlines the historical development, current processes and practices of curriculum development, instructional design, implementation, and assessment. Examines applications and processes of curriculum decision making and the impact of national standards on curriculum design and development at the classroom, district, state, and national levels. Requires 15 field experience/practicum hours in addition to class time.

EDUC 5340

**Methods of Second Language Acquisition
for Practitioners
3:3:0 Summer**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Prepares teachers to teach content in students' second language in U.S. public schools. Includes applied aspects of second language learning and teaching. Provides general and special educators, and dual language or second language specialists the techniques, activities, strategies, and resources needed to plan instruction for second language learners. Emphasizes the development of teaching skills in language development, literacy, and content-area instruction for K-12 students. Requires 15 hours of field experience/practicum hours as part of course assignments.

EDUC 5350

**Theories of Second Language Acquisition
for Practitioners
3:3:0 Summer**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Examines the intricate web of variables that interact in the second language learning process, including linguistic, cognitive, social, cultural, and political factors. Examines each of these factors in turn and develops understanding of how they work together to foster or inhibit successful second language learning and acquisition. Requires 15 hours of field experience/practicum hours as part of course assignments. Course fee of \$15 applies.

EDUC 5360

**Multicultural Education for Practitioners
3:3:0 Spring**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Identifies the connections between language, culture, and identity. Examines multicultural education in the classroom through a focus on the historical, sociological, and philosophical foundations of education in the development of the United States and its education system. Outlines methods to create multicultural /multilingual curricula with a special focus on culturally/ linguistically-responsive instruction and assessment techniques.

EDUC 5370

**Assessment for Second Language
Learners for Practitioners
3:3:0 Summer**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Examines methods and practice for the testing of bilingual students at the classroom level. Focuses on assessment of language proficiency in English language learners (ELL) and the assessment of academic achievement of bilingual students in specific content areas. Develops and reviews tasks (test items), response formats, scoring systems, and test administration procedures as critical to attaining validity and fairness. Examines major current testing policies for linguistic minority students. Practicum required. Course fee of \$15 applies.

EDUC 5380

**Second Language Literacy Development
for Practitioners
3:3:0 Fall**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides teachers with a theoretical framework for understanding literacy and linguistic development of students learning in a second language. Provides an understanding of the literacy instructional needs of these students. Increases knowledge and skill in instructional practices that support second language literacy learning.

EDUC 5390

**Family and Community Involvement for
Practitioners
3:3:0 Spring**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides strategies classroom teachers may use for facilitating community participation in the education of minorities. Examines how the teacher's role impacts the adjustment of students to the classroom environment. Studies the techniques of family-school collaboration as well as constructive methods of evaluation. Practicum required. Course fee of \$15 applies.

EDUC 5500

**Teaching K-6 Numbers and Operations for
Practitioners
3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Designed for K-6 teachers. Covers the content of Number and Operations to develop a comprehensive understanding of our number system and relate its structure to computation, arithmetic, algebra, and problem solving. Includes number, number sense, computation, and estimation through a coordinated program of activities that develop number concepts and skills. Special attention in this course will be given to planning lessons in the mathematical content of number and operations and problem solving strategies. Emphasizes interpreting and assessing students' work and learning, and the integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs). Course fee of \$15 applies.

EDUC 5510

**Teaching K-6 Rational Numbers and
Proportional Reasoning for Practitioners
3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of rational numbers, operations with rational numbers, proportionality, and instructional strategies to facilitate the instruction of this content for elementary students. Course fee of \$15 applies.

EDUC 5520

**Teaching K-6 Algebraic Reasoning for
Practitioners
3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of algebraic expressions, equations, functions, real numbers, and instructional strategies to facilitate the instruction of this content for elementary students. Course fee of \$15 applies.

Course Descriptions

EDUC 5530

Teaching K-6 Geometry and Measurement for Practitioners

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of the geometry and measurement content that exists in the state core and instructional strategies to facilitate the instruction of this content. Special attention in this course will be given to applying content understanding in geometry and measurement to classroom practice, interpreting and assessing students' work and learning, and to integrating NCTM process standards and the Utah Intended Learning Outcomes (ILOs) into instruction. Course fee of \$15 applies.

EDUC 5540

Teaching K-6 Data Analysis and Problem Solving for Practitioners

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Develops a firm problem-solving foundation. Using skills and strategies applied in mathematical contexts practicing teachers will learn to think, work with others, present solutions orally to the whole class, and write up detailed solutions. Provides practicing teachers a deeper understanding of probability and data representation and analysis. Special attention in this course will be given to applying content understandings to classroom practice, to interpreting and assessing students' work and learning, and to integrating NCTM process standards and the Utah Intended Learning Outcomes (ILOs) into instruction.

EDUC 5550

Teaching K-6 Assessment and Intervention for Practitioners

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides practicing teachers a deeper understanding of the various types of assessment and their appropriate use for guiding instruction, intervention, and evaluation of student learning of mathematics content. Special attention will be given to the application of mathematical content understandings to planning for classroom instruction and assessment of student learning that is consistent with NCTM process standards and Utah instructional learning outcomes.

EDUC 5600

Education of the Gifted and Talented

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Prepares teachers of GT learners to better understand the field as an evolving and changing discipline influenced by philosophies, research-based principles and theories, relevant laws and policies, cultural and historical points of view, and human issues that influence professional practice, including assessment, instructional planning, delivery, and program evaluation. Explores characteristics of gifted individuals with emphasis on identifying needs and a general overview of possible services for gifted learners. Prepares teachers to advocate for GT students and their programs in schools and school districts.

EDUC 5610

Social and Emotional Needs of the Gifted

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Explores current research and material relevant to the social and emotional issues that may arise for gifted and talented students. Develops a deeper understanding of social and emotional issues that students with gifts and talents experience in K-12 classrooms. Prepares teachers of GT learners and their families to advocate for GT services. Requires 15 hours of field experience/practicum hours in addition to class time.

EDUC 5620

Identification/Evaluation in Gifted Education

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Prepares teachers to use the results of a variety of assessment tools for both identification and learning progress decisions. Defines the processes of identification, legal policies, and ethical principles of measurement and assessment related to referral, eligibility, program planning, instruction, and placement. Requires 15 field experience/practicum hours in addition to class time.

EDUC 5630

Theory into Practice in Gifted and Talented Education

2:2:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Prepares teachers to understand societal influences on the development of curricula. Helps teachers to develop long- and short-range units of instruction anchored in both general and special curricula for gifted and talented students, taking into consideration each individual's abilities and needs, the learning environment, and cultural and linguistic factors.

EDUC 5635

Methods and Materials in Gifted Education for Practitioners

2:2:0 On Sufficient Demand

* Prerequisite(s): Utah Teaching License or permission from the Dean of the School of Education

Requires teacher-participants to locate, create, and or adapt curricular materials needed to implement differentiated instruction for gifted and talented learners. Helps teachers develop materials and methods of instruction that will encourage creative problem-solving and should be adaptable for a variety of student abilities and needs, the learning environment, and cultural and linguistic factors that may influence instruction.

EDUC 5640

Improvement of Curriculum Instruction in the Content Areas

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Prepares teachers of gifted and talented students with the selection, adaptation, creation, and implementation of differentiated instructional models and strategies, especially those related to fostering creativity. Requires 15 field experience/practicum hours in addition to class time.

EDUC 5650

Leadership in Gifted and Talented Education

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Prepares teachers to effectively use leadership principles to collaborate with students and their families, other educators, and related service providers to advocate for individuals with gifts and talents as they promote the learning and well-being of individuals with gifts and talents across settings and diverse learning experiences.

EDUC 5660

Reading Assessments and Instructional Interventions for Practitioners

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Helps practicing teachers become proficient in developing and using a variety of formal and informal assessments and instructional procedures to increase or accelerate students' reading achievement as appropriate. Prepares teachers to screen for reading problems, diagnose reading strengths and needs, and monitor progress to ensure students achieve optimal growth in reading within the context of a Multi-Tiered System of Supports. Develops procedures for gathering, analyzing, and interpreting data to inform instruction, and presents an overview of methods for communicating findings to stakeholders.

EDUC 5661

Literacy and Cognition of Reading for Practitioners

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Helps practicing teachers acquire foundational and declarative knowledge about literacy instruction, including historical perspectives on reading instruction, an introduction to theories and models of literacy acquisition, and discussions of research related to lifelong literacy and its instructional implications. Requires students to examine the history of the field of literacy, including the debates and various stances of reading researchers and the instructional directives developed as a result of the research.

EDUC 5662

Instruction with Literature and Informational Texts for Children and Young Adults

3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Provides an overview of literary and informational texts for children and young adults, with emphasis on classic and recent publications, and their appropriate use in the classroom. Discusses important authors, historical context, and background, and considers current trends and classroom applications in literacy.

EDUC 5663**Content Area Reading and Writing Instruction for Practitioners****3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Helps practicing teachers develop an in-depth understanding of the research findings, issues, principles, and practices related to exemplary, research-based literacy instruction in the content areas. Prepares teachers to provide every student with meaningful and engaging opportunities to learn high-level skills through reading, writing, and speaking while working with graphics and texts, including images, video, and audio, in the K-12 curriculum. Teaches how to evaluate texts in various content areas or topics to identify the qualitative and quantitative features of a text and address reader and task considerations.

EDUC 5664**Instructional Implications of Literacy Development for Practitioners****3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Focuses on emergent literacy development for students in grades K-12 and how that development is well-designed for appropriate literacy learning environments, experiences, and instructional interventions for emergent language learners. Covers the history, major perspectives, and theories about how students understand and develop literacy. Develops understandings of developmentally appropriate instruction, reading behaviors, and literacy development within the larger framework of the communicative arts, i.e., oracy, written expression, reading, spelling, handwriting, listening, the visual and performing arts, and the social community, i.e., family, socio-economic conditions, culture, ethnicity, language, etc.

EDUC 5665**Reading Comprehension Instruction for Practitioners****3:3:0 Fall, Spring, Summer**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Helps practicing teachers acquire knowledge and understanding of current theories and models that impact reading comprehension and apply that knowledge in instruction. Focuses on understanding reading comprehension, increasing the range, quality and complexity of reading materials used by students, and supporting student responses to text. Builds teachers' ability to help their students use texts efficiently and effectively to develop and express complex, critical thinking.

EDUC 5666**Effective Writing Instruction for Practitioners****3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Examines theories, concepts, and methodologies that promote the development of strategic writers. Prepares teachers to provide research-based methods for teaching K-12 students to develop a range of writing skills and applications including how to compose opinion/argumentation, informational/expository, and narrative writing. Facilitates teachers' ability to assess K-12 student writing.

EDUC 5700**Foundations of Dual Language Immersion Education****3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Presents a historical overview and the theoretical and research foundations for dual language and immersion education. Emphasizes the practical application of theory and research in immersion programs.

EDUC 5710**Instructional Strategies and Curriculum and Classroom Management for the Elementary Classroom****3:3:0 On Sufficient Demand**

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Designed to acquaint secondary teachers seeking a K-12 Dual Language Immersion (DLI) endorsement with instructional strategies and classroom management for the elementary classroom. Focuses on helping students to understand the elementary curriculum and plan units of instruction, and to build a repertoire of teaching strategies, tasks, and resources for use in the elementary classroom. Requires 15 hours of field experience/practicum hours in a DLI classroom in addition to class time.

EDUC 5750**Energy in STEM for Elementary Teachers****3:3:0 On Sufficient Demand**

* Prerequisite(s): Recommended: Education Majors or Licensed Educators

Provides teachers with a deep and useful understanding of energy and the nature of how students use concepts of energy to make sense of phenomena across life, earth, and physical science. Enhances teacher insights into: 1) how matter and energy interact, 2) the relationships of energy to forces and interactions within fields, and 3) pedagogical content knowledge around teaching and learning about energy. Also connects knowledge of energy concepts to practices in technology, engineering, and mathematics.

EDUC 5760**Force in STEM for Elementary Teachers****3:3:0 On Sufficient Demand**

* Prerequisite(s): Recommended: Education Majors or Licensed Educators

Provides teachers with a deep and useful understanding of force and the nature of how students use concepts of force to make sense of phenomena across life, earth, and physical science. Enhances teacher insights into: 1) how force, matter and energy interact, 2) the relationship of force to energy and interactions within fields, and 3) pedagogical content knowledge around teaching and learning about force. Also connects knowledge of concepts of force to practices in technology, engineering and mathematics.

EDUC 5770**Matter in STEM for Elementary Teachers****3:3:0 On Sufficient Demand**

* Prerequisite(s): Recommended: Education Majors or Licensed Educators

Provides teachers with a deep and useful understanding of matter and the nature of how students use concepts of matter to make sense of phenomena across life, earth, and physical science. This understanding enhances teacher insights into: 1) how matter and energy interact, 2) the relationships of matter to forces and interactions within fields, and 3) pedagogical content knowledge around teaching and learning about matter. Also connects knowledge of concepts of matter to practices in technology, engineering and mathematics.

EDUC 5780**Nature of Science and Engineering****3:3:0 On Sufficient Demand**

* Prerequisite(s): Recommended: Education Majors or Licensed Educators

Explores the nature of science using science and engineering principles, practices, and processes. Explores applications to Science, Technology, Engineering and Mathematics using learner-based pedagogy. Develops teaching practices to assist participants in educating K-6 students in selected Earth and Life Science Standards.

EDUC 5790**STEM Practices with a Focus on Technology and Problem-Based Learning****3:3:0 On Sufficient Demand**

* Prerequisite(s): Recommended: Education Majors or Licensed Educators

Engages participants in developing meaningful understandings of problem-based approaches to teaching, learning, and the integration of STEM practices across the curriculum using appropriate technology. Requires the development and creation of problem-based, hands-on experiences.

Course Descriptions

EDUC 5800

Cognition Education and Technology for Practitioners

3:3:0 Spring

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Examines the increasingly pervasive role of electronic media in educating and socializing young students, especially as it affects the K-12 classroom. Explores the range of content available to these students, their families, and their classrooms and reviews research on the role of media in shaping individual identity and affecting school performance; analyzes public policies that affect teachers and students.

EDUC 5810

Instruction Curriculum & Educational Leadership in the Digital Age for Practitioners

3:3:0 Summer

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Examines issues surrounding the use of technology in curricular and instructional design, especially in designing coursework for an online learning environment. Requires students to incorporate appropriate digital media formats to create an online learning environment. Addresses issues of school leadership, as participants may become mentors in the area of educational technology.

EDUC 5820

Designing and Producing Media for Instruction for Practitioners

3:3:0 Summer

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Helps students produce educational media materials for their particular classroom. Requires students to collaborate with others to design, produce, test, and revise a unique project tailored for their instructional practice. Requires students to use a variety of digital tools to conceptualize, design, fashion, and evaluate media projects.

EDUC 5830

Digital Models of Instruction for Practitioners

3:3:0 Summer

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Focuses on using instructional design and Web page design principles for specific classroom populations. Examines the best instructional use of online options, including flipped and hybrid course design, and gaming. Requires completion of an instructional design plan for an instructional unit of the participants' choice for a learner group of their choice.

EDUC 5840

Universal Design for Learning for Practitioners

3:3:0 Fall

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Focuses on universal design for learning (UDL) that differentiates curricula and learning environments for a wide range of student abilities and disabilities. Requires students to learn to apply the UDL approach in designing differentiated learning experiences for their classrooms using educational technology.

EDUC 5850

Digital Course Design Capstone for Practitioners

3:3:0 Spring

* Prerequisite(s): Professional educator license or permission of the Dean of the School of Education

Teaches students to design and create media for content-specific units of instruction. Requires students to use technology specific to a given discipline, and to incorporate instructional design and digital media to create an online unit of study.

EDUC 6010

ABA Concepts and Principles

3:3:0 Fall

* Prerequisite(s): Admission to the Master of Education program or permission of the Dean of the School of Education

Provides students with a strong foundation in the basic concepts and principles of ABA, including the history and philosophical assumptions of behavior analysis and autism spectrum disorder. Graduate fee of \$640 applies.

EDUC 6020

Ethics and Professional Competencies in Applied Behavioral Analysis

3:3:0 Fall

* Prerequisite(s): Admission to the Master of Education program or permission of the Dean of the School of Education

Defines ethical responsibilities required in the field of applied behavior analysis. Introduces policy and practice related to informed consent, protection of confidentiality, selection of least intrusive and least restrictive behavior change procedures within the context of case methodology. Emphasizes legal issues and ethical decision making processes. Covers professional, disciplinary, and ethical standards for Board Certified Behavior Analyst certification in depth. Course fee of \$640 applies.

EDUC 6030

Developing and Changing Behaviors

3:3:0 Spring

* Prerequisite(s): Admission to the Master of Education program or permission of the Dean of the School of Education

Explains various behavioral assessments and intervention strategies. Focuses on single subject designs and procedures for measuring behavior, displaying data, and interpreting results. Examines ways to evaluate and analyze behavior change. Course fee of \$640 applies.

EDUC 6040

Measurement in Single Subject Design

3:3:0 Spring

* Prerequisite(s): Admission to the Master of Education program or permission of the Dean of the School of Education

Introduces methods for collection and interpretation of various types of data. Focuses on the importance of making data-driven decisions for behavior change procedures based on functional relationships. Course fee of \$640 applies.

EDUC 6050

Functional Behavior Assessment and Treatment

3:3:0 Fall

* Prerequisite(s): Admission to the Master of Education program or permission of the Dean of the School of Education

Focuses on using methods and tools for selecting and defining target behaviors and for behavior measurement. Provides experience in methods to develop new behavior using imitation, modeling, shaping, and chaining and methods to decrease behaviors using extinction, differential reinforcement and antecedent interventions. Reviews and extends the study of functional behavior assessment, verbal behavior, generalization and maintenance of behavior change. Course fee of \$640 applies.

EDUC 6060

Advanced Topics in Applied Behavior Analysis

3:3:0 Fall

* Prerequisite(s): Admission to the Master of Education program or permission of the Dean of the School of Education

Focuses on advanced topics in behavior analysis, including current research, changes in relevant legislation, emerging areas of behavior analysis, measurement technology, school applications, teaching methodology, innovative interventions, and ethics. Course fee of \$640 applies.

EDUC 6080

Cognition, Education, and Technology

3:3:0 Spring

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Examines the increasingly pervasive role of electronic media in educating and socializing young students. Explores the range of content available to these students and their families; documents the developing child's patterns of use and understanding of media; examines theories and methods for assessing media effects; reviews research on the role of media in shaping individual identity and responses to social issues; and analyzes public policies that affect teachers and students.

EDUC 6081

Instruction, Curriculum and Educational Leadership in the Digital Age

3:3:0 Summer

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Examines issues surrounding teachers and the use of technology in curricular and instructional design. Emphasizes designing coursework for an online learning environment. Explores the history and models of instructional design and teaches incorporation of appropriate digital media formats to create an online learning environment. Introduces the integrated nature of Technological Pedagogical Content Knowledge (TPACK) and the National Educational Technology Standards (NETS) as frameworks for identifying and applying the knowledge needed to teach and assess student learning with technology. Addresses issues of leadership, as students may become mentors in the area of educational technology.

EDUC 6082
Designing and Producing Media for Instruction
3:3:0 Summer
 * Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Designed to help students produce educational media materials. Offers students the opportunity to collaborate with others to design, produce, test, and revise a unique project for television, multimedia, the web, mobile applications, video games, radio, photography, or other formats. Teaches the use of a variety of tools and formats, including digital storytelling, video, online research tools, WebQuests, advanced Excel, Google tools, Web 2.0, and GPS. Requires the conceptualization, design, fashioning, and evaluation of media projects. Explores several analytic frameworks drawn from both instructional design and education research.

EDUC 6083
Digital Models of Instruction
3:3:0 Summer
 * Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on using instructional design and Web page design principles. Examines the best instructional use of online options, including flipped and hybrid course design, and gaming. Requires completion of an instructional design plan for an instructional unit of the participants' choice for a learner group of their choice.

EDUC 6084
Universal Design for Learning
3:3:0 Spring
 * Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on universal design for learning (UDL) that creates curricula and learning environments that are designed to achieve success for a wide range of student abilities and disabilities. Covers the UDL approach, which takes advantage of advances in the fields of cognitive neuroscience of learning, educational technologies, and multimedia. Teaches how to apply the UDL approach in designing differentiated learning experiences using educational technology.

EDUC 6085
Digital Course Design Capstone
3:3:0 Spring
 * Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Teaches students to design and create media for content-specific units of instruction. Covers the use of technology specific to a given discipline, and teaches how to incorporate instructional design and digital media to create an online unit of study.

EDUC 6100
Research Methodology
3:3:0 Summer
 * Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean

Introduces the principal methodologies used in research in education. Presents basic information about the purposes of research, the scientific method, and basic qualitative and quantitative research. Identifies methods for locating, reading, interpreting and using research reports and in applying measurement issues and research methods to classroom problems. Investigates teacher research practices and ways it can be used to study teaching and teacher education.

EDUC 6110
Applied Statistics for Education
3:3:0 Summer
 * Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean

Introduces elementary statistics in educational settings and includes descriptive statistics, sampling, central tendency, and inferential methods. Emphasizes reading, understanding and evaluating statistics in research reports.

EDUC 6120
Personal Leadership and Organizational Design
3:3:0 Summer
 * Prerequisite(s): Admission to Master of Education: Educational Leadership Emphasis leading to USBE Education Leadership License Area of Concentration

Introduces students to critical concepts about leadership theories and practice. Provides both historical perspective and current understanding to approaches, methods, and practices of leaders. Provides insight into how leadership skills and organization strategies produce increased productivity and better learning/working environments for P-12 students' academic success and well-being. Provides opportunity for class members to examine their own beliefs and develop a personal model of leadership. Emphasizes attributes that promote integrity, fairness, transparency and trust.

EDUC 6130
School Operations and Management-Finance/Law/Safety
3:3:0 Fall
 * Prerequisite(s): Admission to Master of Education: Educational Leadership Emphasis leading to USBE Education Leadership License Area of Concentration

Explores school finance, law, and safety as primary themes in school management and operations. Provides an overview of current K-12 management conditions and theory. Discusses these themes 1) best management theories and practices for not-for-profit organizations, 2) rules and regulations that govern school finance, 3) court rulings in areas of student speech, discipline, and other points of tensions in public schools, and 4) school organization to keep students physically and emotional safe.

EDUC 6140
Instructional Leadership and Data-based Decision Making
3:3:0 Fall
 * Prerequisite(s): Admission to Master of Education: Educational Leadership Emphasis leading to USBE Education Leadership License Area of Concentration

Advances student understanding, skill, and capacity to facilitate coherent systems of curriculum development, impactful instruction, valid assessment. Builds professional capacity for data interpretation and decision making for the success and well-being of students and faculty.

EDUC 6150
School Operations and Management-Communication/Planning/HR/Evaluation
3:3:0 Spring
 * Prerequisite(s): Admission to Master of Education: Educational Leadership Emphasis leading to USBE Education Leadership License Area of Concentration

Explores school communication, planning, human resources, and evaluation as primary themes in school management and operations. Provides an overview of current K-12 management conditions and theory. Reviews the role of legislation, policy, and leadership on the primary themes. Prepares students to communicate with stakeholders, strategically plan for school improvement, know best practices in the hiring and retention of public school staff.

EDUC 6160
Leading Professional Learning Communities
3:3:0 Spring
 * Prerequisite(s): Admission to Master of Education: Educational Leadership Emphasis leading to USBE Education Leadership License Area of Concentration

Introduces students to critical concepts about building a school culture that leverages the strengths of collective solutions. Provides background information on the development of professional learning communities (PLCs) and how they can impact high student performance. Scaffolds student knowledge on how to organize and implement PLCs. Identifies leadership skills required to effectively manage change within the school setting. Introduces assessments to use in identifying challenges and summarizing impact of PLC fairness, transparency and trust.

EDUC 6170
Leading Change/Innovation/Educational Entrepreneurship
3:3:0 Summer
 * Prerequisite(s): Admission to Master of Education: Educational Leadership Emphasis leading to USBE Education Leadership License Area of Concentration

Introduces critical concepts of school change. Addresses strategies to encourage and manage innovation and entrepreneurship. Prepares students to aid learners in developing deeper abilities to create, critique, and collaborate to solve complex challenges facing society. Prepares students to successfully manage change and innovation in teaching and learning in the 21st century. Guides students in learning to anticipate needed changes and to develop skills to effectively lead innovation in their school settings.

Course Descriptions

EDUC 6200

Masters Project

3:3:0 **Fall**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean

Provides working knowledge of action research methods in the public schools. Sets the standards for the professional M.Ed. action research-based project. Utilizes APA guidelines. Establishes techniques and strategies for successful project completion.

EDUC 6201

Teacher Performance Assessment Project

2:2:0 **Spring**

* Prerequisite(s): Admission to Secondary Teaching,
Graduate Certificate Program
* Corequisite(s): EDUC 6203

Introduces the teaching and learning cycle: planning, instruction, and assessment. Assists students in completing an authentic assessment tool that shows how they develop and evaluate student learning. Documents authentic practices from the student's teaching experience that address planning, instruction, assessment, analyzing teaching, and academic language to reveal the impact of a candidate's teaching performance on student learning.

EDUC 6202

Classroom Management Practicum

3:2:3 **Fall**

* Prerequisite(s): Admission to Secondary Teaching,
Graduate Certificate Program

Provides first-hand, supervised, clinical experience in observing and implementing effective class management practices.

EDUC 6203

Student Teaching Graduate Licensure

6:1:15 **Spring**

* Prerequisite(s): Admission to Secondary Teaching,
Graduate Certificate Program
* Corequisite(s): EDUC 6201

Includes a one-hour candidate support seminar and 400 hours of student teaching experience in a secondary classroom, grades 7-12. Includes application of knowledge, skills, and attitudes derived in previous course work and program experience. Is required for students to be recommended for a secondary education license from the Utah State Office of Education. May be Graded Credit/ No Credit.

EDUC 6300

Curriculum Design

3:3:0 **Summer**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean

Provides a foundation in curriculum theory and practice. Introduces instructional design theories principles and models. Outlines the historical development, current processes and practices of curriculum development, instructional design, implementation, and assessment. Investigates research and theory about educational contexts, motivation, curriculum, learning, and development as they relate to models of instruction. Examines applications and processes of curriculum decision making and the impact of national standards for content areas to curriculum design and development in classroom and district settings.

EDUC 6310

Assessing Educational Practices

3:3:0 **Fall**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean

Examines theoretical and practical concepts that are foundational in educational evaluation and assessment. Explains learning assessments. Focuses on assessment instruments, assessment design, appropriate use of assessment techniques and the data derived from assessments to understand student progress and instructional design to promote student learning.

EDUC 6320

21st Century Teaching and Learning

3:3:0 **Spring**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean

Focuses on instructional design and delivery incorporating 21st century learning design. Introduces a range of instructional models, most emphasizing cognition and the processing of information. Requires planning and implementing instruction using several selected models.

EDUC 6330

Diversity and Differentiation in the Classroom

3:3:0 **Spring**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean

Provides an in-depth understanding of differentiated instructional design and delivery. Focuses on planning and implementing instruction for a diverse classroom community.

EDUC 6340

English as a Second Language Methods

3:3:0 **Summer**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean or the instructor

Prepares teachers to teach English as a second language in U.S. public schools. Includes both theoretical and applied aspects of second language learning and teaching. Provides general and special educators and second language specialists techniques, activities, strategies and resources to plan instruction for English language learners (ELLs). Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

EDUC 6350

Theories of Second Language Acquisition

3:3:0 **Summer**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean or the instructor

Describes the variables that interact in the second language learning process, including linguistic, cognitive, social, cultural, and political factors. Examines learning a second language as both an individual and social experience. Examines the linguistic, cognitive, psychological, and emotional elements of learning a second language. Identifies the interactions between the individual and the contexts in which s/he interacts and then attempts to understand how they work together to foster or inhibit successful second language learning and acquisition.

EDUC 6360

Multicultural Education

3:3:0 **Spring**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean or the instructor

Identifies the connections between language, culture, and identity. Examines multicultural education through a focus on the historical, sociological, and philosophical foundations of education. Emphasizes the role of ethnicity in the development of the United States and its education system. Outlines multicultural /multilingual curricula with a special focus on culturally/ linguistically-responsive instruction and assessment techniques.

EDUC 6370

Assessment of Second Language Learners

3:3:0 **Summer**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean or the instructor

Examines theory, methods, and practice in the testing of bilingual students at both the classroom level and the large-scale level in the context of school accountability. Focuses on assessment of language proficiency in English language learners (ELL) and the assessment of academic achievement of bilingual students in specific content areas. Develops and reviews tasks (test items), response formats, scoring systems, and test administration procedures as critical to attaining validity and fairness. Examines testing major current testing policies for linguistic minority students. Practicum required.

EDUC 6380

Literacy and Linguistics in English as a Second Language

3:3:0 **Fall**

* Prerequisite(s): Admission to Graduate Status
Admission to the School of Education Masters Degree
Program Or permission of the Dean or the instructor

Focuses on how teachers can best meet the literacy and language needs of students from a variety of cultural, socioeconomic and language groups. Explores frameworks for providing high-quality literacy instruction to all students. Analyzes classrooms and schools that have been successful in accomplishing this. Examines ethnic identities and personal conceptions of diversity, and how these may impact instructional decisions. Analyzes students and families represented in their classrooms. Discusses ways to build bridges between home and school cultures.

EDUC 6390
Family and Community Involvement
3:3:0 **Spring**
 * Prerequisite(s): Admission to Graduate Status
 Admission to the School of Education Masters Degree Program Or permission of the Dean or the instructor

Provides strategies for facilitating community participation in the education of minorities. Examines the role of the teacher in the classroom and community with the intention of developing insight and understanding of how the teacher's role in these areas impacts the adjustment of adolescents during grades 7-12. Considers models and methods for facilitating positive relationships. Studies the techniques of family-school collaboration as well as constructive methods of evaluation. Practicum required.

EDUC 6400
Teachers as Leaders
3:3:0 **Spring**
 * Prerequisite(s): Admission to Graduate Status
 Admission to the School of Education Masters Degree Program Or permission of the Dean

Introduces students to critical concepts about transformational leadership. Provides awareness of how leadership skills and task importance motivates people; focuses on the team or organization strategies that produce increased productivity and better work for colleagues and students. Focuses on issues and strategies for teacher leadership.

EDUC 6410
Contemporary Issues
3:3:0 **Summer**
 * Prerequisite(s): Admission to Graduate Status
 Admission to the School of Education Masters Degree Program Or permission of the Dean

Presents contemporary theories of learning and teaching from personal and public perspectives and how those theories converge with professional practice in classrooms and schools. Provides a study of the philosophical foundations of curriculum and instruction in American schools, the social and cultural conditions that influence education, and new concepts in education curriculum materials, and methods of instruction.

EDUC 6420
Diversity in Higher Education
3:3:0 **Fall**
 * Prerequisite(s): Admission to graduate status, admission to the Master of Education program, or permission of the Dean

Examines multiple critical lenses informing the higher education landscape on issues related to marginalization, identity, silence, under-representation and other factors that American higher education has historically been inadequate at addressing. Guides students to develop a personal framework based in reflexivity around biases. Synthesizes collegial, institutional, historical and contextual nuances to provide foundational knowledge. Develops a dispositional and interdisciplinary approach to facilitate inclusion within particular higher education roles and activities.

EDUC 6430
Law-Policy-Ethics in Higher Education
3:3:0 **Fall**
 * Prerequisite(s): Admission to graduate status, admission to the Master of Education program, or permission of the Dean

Examines legal frameworks, liability, compliance, constitutional and civil rights, competing rights of institutions, faculty, staff, and students, and contractual obligations in higher education. Explores the legal, ethical, institutional, and political processes that influence higher education and the relationship between law and the system of higher education. Critiques legal issues as a way to define the role and meaning of higher education in today's society.

EDUC 6440
Leadership in Higher Education
3:3:0 **Spring**
 * Prerequisite(s): Admission to graduate status, admission to the Master of Education program, or permission of the Dean

Examines organizational theory, models, governance, and management processes in higher education, leadership perspectives and leadership theory. Explores leadership as a discipline that transcends functional area, serving as a framework to lead and guide within higher education. Investigates leadership theories and formulates personal approach as an educational leader.

EDUC 6450
Planning-Budget-Organizational Effectiveness
3:3:0 **Fall**
 * Prerequisite(s): Admission to graduate status, admission to the Master of Education program, or permission of the Dean

Examines the principles and practices of strategic planning, evaluation, accountability, and financial management in higher education institutions, operating units, and academic programs.

EDUC 6460
Student Success and Development
3:3:0 **Spring**
 * Prerequisite(s): Admission to graduate status, admission to the Master of Education program, or permission of the Dean

Presents various theories relevant to college student development and applies those theories to the field through class discussion, papers, and special projects. Introduces students to the major theories of learning, development, and retention and connects them with current practice.

EDUC 6470
Foundations and Contexts of Higher Education
3:3:0 **Summer**
 * Prerequisite(s): Admission to graduate status, admission to the Master of Education program, or permission of the Dean

Examines diverse models and systems of higher education in an effort to provide contexts for effective work and leadership in higher education environments. Explores the nuances of higher education institutions in terms of political dynamics, shared governance, technology, innovation, organizational culture, and external/internal constituent expectations and perceptions. Discusses U.S. and international models of higher education and future possibilities.

EDUC 6500
Teaching K-6 Numbers and Operations
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): Admission to School of Education graduate program; professional educator license; or permission of the Dean of the School of Education

Designed for K-6 teachers. Covers the content of Number and Operations to develop a comprehensive understanding of our number system and relate its structure to computation, arithmetic, algebra, and problem solving. Includes number, number sense, computation, and estimation through a coordinated program of activities that develop number concepts and skills. Special attention in this course will be given to how children learn and connect the fundamental concepts of number systems, children's developmental trajectories in the mathematical content of number and operations, how children construct their understanding of various number systems and arithmetic, children's typical error patterns, problem solving strategies, interpreting and assessing students' work and learning, and integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs).

EDUC 6510
Teaching K-6 Rational Numbers and Proportional Reasoning
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): Admission to School of Education graduate program, professional educator license; EDUC 6500, or permission of the Dean of the School of Education.

Provides practicing teachers a deeper understanding of rational numbers, operations with rational numbers, proportionality, and instructional strategies to facilitate the instruction of this content for elementary students.

EDUC 6520
Teaching K-6 Algebraic Reasoning
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): Admission to School of Education graduate programs; professional educator license; or permission of the Dean of the School of Education.

Provides practicing teachers a deeper understanding of algebraic expressions, equations, functions, real numbers, and instructional strategies to facilitate the instruction of this content for elementary students.

Course Descriptions

EDUC 6530

Teaching K-6 Geometry and Measurement 3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance to graduate studies in the School of Education; professional educator license, or permission of the Dean of the School of Education.

Provides practicing teachers a deeper understanding of the geometry and measurement content that exists in the state core and instructional strategies to facilitate the instruction of this content. Special attention in this course will be given to how children learn and connect the fundamental concepts of geometry and measurement, children's developmental trajectories in this mathematical content, how children construct their understanding of various geometric concepts, children's typical error patterns, problem solving strategies, interpreting and assessing students' work and learning, and integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs).

EDUC 6540

Teaching K-6 Data Analysis and Problem Solving 3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license; admission to graduate program in the School of Education; or permission of the Dean of the School of Education.

Develops a firm problem-solving foundation. Using skills and strategies applied in mathematical contexts practicing teachers will learn to think, work with others, present solutions orally to the whole class, and write up detailed solutions. Provides practicing teachers a deeper understanding of probability and data representation and analysis. Special attention in this course will be given to children's typical error patterns, problem solving strategies, interpreting and assessing students' work and learning, and integration of the NCTM process standards and the Utah Intended Learning Outcomes (ILOs).

EDUC 6550

Teaching K-6 Assessment and Intervention 3:3:0 On Sufficient Demand

* Prerequisite(s): Professional educator license; admission to graduate level in the School of Education; or permission of the Dean of the School of Education.

Provides practicing teachers a deeper understanding of the various types of assessment and their appropriate use for guiding instruction, intervention, and evaluation of student learning of mathematics content. Teaches how to screen students for mathematics problems or potential mathematics problems, diagnose students' mathematics strengths and needs, and monitor students' progress to ensure students will make optimal progress in mathematics. Teaches procedures for managing and analyzing assessment data.

EDUC 6660

Reading Assessments and Instructional Interventions 3:3:0 On Sufficient Demand

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on curriculum-based measurement, the assessment/instructional cycle, and how to use assessment data to design and implement instructional interventions to increase students' reading achievement. Studies the four federal assessment categories: screening, progress monitoring, diagnosis, and outcomes, as well as assessment instruments within the various categories and the 3-tiered model. Focuses on building students' oral language and background knowledge, teaching alphabet knowledge and phonemic awareness, teaching students to use and recognize and use common phonic spelling patterns, building vocabulary, increasing fluency, teaching students to apply comprehension strategies, and fostering students reading engagement. Describes reading assessments and interventions that are appropriate at the primary, intermediate, and secondary levels.

EDUC 6661

Literacy and Cognition of Reading 3:3:0 On Sufficient Demand

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Provides foundational knowledge about literacy instruction, including an historical perspective on reading instruction, an introduction to theories and models of literacy acquisition, a study of language systems and language acquisition, and theories related to the literacy development of people across the lifespan and their instructional implications. Includes the debates and various stances of reading researchers, and the instructional directives that grew out of the research.

EDUC 6662

Early Literacy Instruction 3:3:0 On Sufficient Demand

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Designed to help students understand the history, major perspectives and theories about how young children understand literacy. Focuses on developmentally appropriate instruction and the value of play relating to oral and print literacy in kindergarten and the primary grades. Examines literacy development within the larger framework of the communicative arts, i.e., oracy, written expression, reading, spelling, handwriting, listening, the visual and performing arts, and the social community, i.e., family, socioeconomic conditions, culture, ethnicity, language, etc.

EDUC 6663

Content Area Reading 3:3:0 On Sufficient Demand

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Designed to help practicing teachers develop an in-depth understanding of the research findings, issues, principles and practices related to exemplary, research-based reading and writing instruction in the content areas. Covers the use of textbooks and nonfiction reading materials for young students who are beginning readers and writers. Focuses on how to assist all learners to read, understand and learn from nonfiction reading materials. Covers assisting students at all grade levels in their reading of materials and writing of text related to science, social studies, history, math art, music, etc.

EDUC 6664

Adolescent Literacy 3:3:0 On Sufficient Demand

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Provides practicing secondary teachers with concepts, models, and strategies to support adolescent literacy instruction. Familiarizes teachers with practical constructs for understanding adolescent literacy, its importance, how it can be fostered and employed for student learning, how the challenges of adolescent literacy differ from the challenges of early reading instruction, and how systematic interventions can help remediate chronic failure in literacy and learning. Teaches effective literacy improvement practices that can be realistically implemented in the context of secondary teachers' many demands.

EDUC 6665

Reading Comprehension Instruction 3:3:0 On Sufficient Demand

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on reading comprehension instruction as the essence of reading. Emphasizes the theoretical foundations that support comprehension such as schema theory and the construction-integration theory. Includes the following five research-supported strategies: activating prior knowledge, questioning, analyzing text structure, creating mental or visual images and summarizing. Teaches how to offer explicit teacher-led comprehension strategy instruction that will lead to helping their students coordinate a set of comprehension strategies. Teaches how to help students construct meaning through rich discussions and interactions around a variety of text structures and genres. Prepares teachers to provide scaffolded support including demonstrations, pictures, diagrams, and collaboration with other students.

EDUC 6666**Effective Writing Instruction****3:3:0 On Sufficient Demand**

* Prerequisite(s): Admission to Graduate Status, Admission to the School of Education Masters Degree Program, Or permission of the Dean

Focuses on using effective strategies for teaching writing across the curriculum and for diverse populations. Teaches application of the writing process, writing workshop, and interactive writing procedures in the classroom. Covers the development of orthographic knowledge and how to assess student work using the Qualitative Spelling Inventory and the Six-Trait Writing Model.

EDUC 6750**Energy in Elementary STEM Education****3:3:0 On Sufficient Demand**

* Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program; Or permission of the Dean or the instructor

Prepares teachers to teach English as a second language in U.S. public schools. Includes both theoretical and applied aspects of second language learning and teaching. Provides general and special educators and second language specialists techniques, activities, strategies and resources to plan instruction for English language learners (ELLs). Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

EDUC 6760**Force in Elementary STEM Education****3:3:0 On Sufficient Demand**

Provides teachers with a deep and useful understanding of force and the nature of how students use concepts of force to make sense of phenomena across life, earth, and physical science. Explores the theory of and enhances teacher insights into: 1) how force, matter and energy interact, 2) the relationship of force to energy and interactions within fields, and 3) pedagogical content knowledge around teaching and learning about force. Also connects knowledge of concepts of force to practices in technology, engineering and mathematics, and engages participants in evaluating technology appropriate to elementary STEM instruction. Requires participants to make connections between current learning theories and methods of STEM instruction.

EDUC 6770**Matter in Elementary STEM Education****3:3:0 On Sufficient Demand**

Models effective and engaging instructional practices for teaching about matter in the elementary classroom, and connects knowledge of concepts of matter to practices in technology, engineering and mathematics. Requires participants to design and implement STEM lessons that will help elementary students use content knowledge about matter to make sense of phenomena across life, earth, and physical science. Designed to help participants gain insights into: 1) how matter and energy interact, 2) the relationships of matter to forces and interactions within fields, and 3) pedagogical content knowledge for teaching about matter. Involves participants in active instructional strategies and pedagogical theories. Focuses on designing learning environments that support collaborative learning and engagement in STEM lessons.

EDUC 6780**Science and Engineering in Elementary****STEM Education****3:3:0 On Sufficient Demand**

Explores the nature of science using science and engineering principles, practices, and processes. Investigates applications of learning theory to Science, Technology, Engineering and Mathematics using problem-based learning experiences. Requires participants to develop teaching practices to assist them in integrating engineering practices across disciplines as they apply Utah Science Standards to elementary STEM instruction.

EDUC 6790**Technology and Problem-Based Learning in Elementary STEM Education****3:3:0 On Sufficient Demand**

Engages participants in developing meaningful understandings of problem-based approaches to teaching, learning, and the integration of STEM practices across the curriculum using appropriate technology. Requires participants to demonstrate their skills through the development of problem-based, hands-on learning experiences for elementary students, based on findings from current research and theory of cognitive development. Critically evaluates technology for STEM education, based on current national guidelines.

EDUC 6910**Project I****1:0:3 Fall**

* Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean and completion of EDUC 6200

Provides instruction regarding writing a formal classroom-based research project proposal to present to the School of Education Graduate Board. Obtain human subject clearance. Course will be graded credit/no credit.

EDUC 6920**Project II****1:0:3 Spring**

* Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean and completion of EDUC 6910

Provides support regarding Implementation of the classroom-based applied research project. Course will be graded credit/no credit.

EDUC 693R**Project III****1:0:3 Spring**

* Prerequisite(s): Admission to Graduate Status Admission to the School of Education Masters Degree Program Or permission of the Dean and completion of EDUC 6920

Provides support regarding completion of a classroom-based applied research project and acceptance of the classroom-based applied project by the School of Education graduate Board. Course will be graded credit/no credit. Repeatable with department approval.

EDUC 694R**Directed Individual Study****.5 to 3:5 to 3:0 On Sufficient Demand**

* Prerequisite(s): Admission to Graduate Status; Admission to the School of Education Masters Degree Program or permission of the Dean

Provides individual instruction for Master of Education students wishing to further their understanding of the field of education. Focuses on individual research regarding instructional methods and/or assessment. May be repeated for a maximum of 6 credits. Graded Credit/No Credit.

Engineering Graphics and Design Technology (EGDT)

EGDT 1000**Introduction to Engineering Drawing and Technical Design****2:2:0 Fall, Spring**

Covers basic sketching, instruments and their use, lettering, geometric construction, dimensioning, multi-view drawings, and section views, using CAD (computer-aided drafting) and traditional hand tools. Teaches introductory skills required in several first-year drafting technology courses. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1010**Electrical Electronic Drafting****3:3:0 Fall, Spring**

* Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher

Introduction to several types of electrical-electronic drawings such as Block, Connection, Logic, Schematic, Wiring, and Panel Diagrams. Introduction to basic DC theory, electricity and electrical terms, including Ohm's law, Watt's law, Logic Truth Tables, Series and Parallel Circuits, and Printed Circuit Board Design, using lectures, projects, worksheets, labs, and drawing assignments. Prepares students for advancement to EGDT 2010. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1020**3D Architectural Modeling****3:3:0 Fall, Spring, Summer**

For Engineering Graphics and Design Technology and Construction Management majors. Utilizes a Building Information Modeling system (BIM) to design 3D architectural models. Covers model design theory, parametric modeling methods, generation of residential and commercial construction plans and details, building components and systems, and manipulation of model information. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

Course Descriptions

EGDT 1040

Computer Aided Drafting AutoCAD

3:3:0 Fall, Spring, Summer

Teaches drafting using AutoCAD (or other) software system. Includes enough exposure to Windows to create files, read directories, create directories and operate the AutoCAD software as it applies to Windows and Graphics. Uses CAD system to produce, plot, print, check, and correct drawings. Applies other drafting skills and standards. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1050

Introduction to 3D Printing

2:2:0 Fall, Spring

Introduces basic knowledge and skills related to 3D printing. Covers the acquisition of 3D print files and teaches basic 3D computer modeling skills using common 3D modeling software. Introduces 3D printing software and the use of 3D printers to produce prototype or functional models. Requires students to create and print projects given as class assignments and model and print a project of their choosing.

EGDT 1060

MicroStation

2:2:0 Spring

* Prerequisite(s): EGDT 1000

* Corequisite(s): EGDT 1000

Teaches the drafting MicroStation software system in Windows. Drawings are produced, plotted, printed, checked, and corrected on the CAD system. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1070

3 Dimensional Modeling Inventor

3:3:0 Fall, Spring

Teaches basic 3D computer modeling course which emphasizes the development of 3D machine parts, assemblies, and drawings in a constraint-based modeling environment using AutoDesk Inventor. Emphasizes the feature based design process, which simulates actual manufacturing processes with 2D sketching tools and with 3D modeling tools including extrusions, revolutions, sweeps, lofts, coils, shells, placed features, patterns, and many others. Also teaches creation of basic multi-part assemblies, constraint-driven assembly animation, and generation of detailed production drawings. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1071

3 Dimensional Modeling--Solidworks

3:3:0 Fall, Spring, Summer

Teaches basic 3D computer modeling, which emphasizes the development of 3D machine parts, assemblies, and drawings in a constraint-based modeling environment using Solidworks. Emphasizes the feature based design process, which simulates actual manufacturing processes with 2D sketching tools and with 3D modeling tools including extrusions, revolutions, sweeps, lofts, coils, shells, placed features, patterns, and many others. Also teaches creation of basic multi-part assemblies, constraint-driven assembly animation, and generation of detailed production drawings. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1080

AutoLisp

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 1040 with a grade of C- or higher

Covers creating and storing AutoLisp files and programs. Includes customizing the AutoCAD menu for personal and drafting use. Teaches creating new macros for speeding up repetitive drawing tasks. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1090

Introduction to Architectural Drafting and Design

2:2:0 On Sufficient Demand

Covers basic procedures used in the development of residential plans. Includes architectural drafting standards, symbols, and techniques. Uses lectures and text reading assignments related to the drawings and worksheets. Introduces students to the architectural profession and related fields. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1100

Architectural Drafting

3:3:0 Fall, Spring

* Prerequisite(s): EGDT 1000 or equivalent and EGDT 1020 both with a grade of C- or higher

For Engineering Graphics and Design Technology majors and other students who wish to broaden their basic drafting skills in the field of residential architectural drafting. Covers procedures used in developing a complete set of residential plans. Includes architectural drafting standards and code requirements. Reinforces math skills using dimensioning and estimating exercises. Uses lectures and text reading assignments with related worksheets and drawings. Prepares students for advancement into EGDT 2100 and for entry-level employment in related fields. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1200

Mechanical Drafting

3:3:0 Fall, Spring

* Prerequisite(s): EGDT 1000 or equivalent and EGDT 1070 or EGDT 1071, both with a grade of C- or higher

Requires previous knowledge of linework, lettering, geometric construction, and dimensioning. Teaches engineering sketching and detail drawing from design layouts. Uses Machinery's Handbook, ANSI Standard and manufacturer's reference materials involving retaining rings, bearings, oil seals, and other hardware. Emphasizes geometric dimensioning and tolerancing. Includes precision dimensioning, surface finish, materials, screw threads, and machining processes and applications. Course fee of \$10 for materials applies. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1300

Structural Drafting

3:3:0 Fall, Spring

* Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher

Covers fundamentals of structural design. Studies structural steel detailing of beams, columns, braces, templates, marking and numbering systems, bill of materials, welding symbols, and erection drawings to AISC standards. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1400

Surveying Applications and Field Techniques I

3:3:0 Fall, Spring, Summer

For people seeking a surveyor's license, civil engineering majors, Engineering Graphics and Design Technology majors, Construction Management majors, and anyone else wishing to learn fundamentals of surveying. Covers history of surveying, mathematics, field notes, measurement and computations, basic surveying instruments and equipment, leveling procedures, bearing computations, topography, mathematical traverse closures, area computations, and basic property surveying. Completers should be able to work in the job-entry phase of the surveying field. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 1600

Technical Math Algebra

3:3:0 Fall, Spring

* Prerequisite(s): MAT 0920 or equivalent with "C-" grade or better or appropriate test scores

Covers the basic principles of algebra, geometry, and trigonometry as they relate to problem solving on the job. Includes solving equations, percent, proportion, variation, calculator operations, measurements, formula rearrangement, functions and graphs, and solving right and oblique triangles.

EGDT 1610

Technical Math Geometry Trig

3:3:0 Fall, Spring

* Prerequisite(s): EGDT 1600 or equivalent course with a grade of C- or higher

Covers more advanced principles of algebra, geometry, and trigonometry as they relate to problem solving on the job. Includes systems of equations, powers and roots, trigonometry functions, vectors, polynomials, quadratic equations, exponents and radicals, and circle concepts.

EGDT 1720

Architectural Rendering

3:3:0 Fall, Spring, Summer

Discusses how Architectural Rendering plays an important role in the way we view and present the world around us, including: elements in the physical and natural world, as well as the influences human cultures have on our society through the construction of buildings, structures, and other works of man. Introduces the necessary skills and practices required in architectural rendering theory and presentation. Develops skills in perspective, layout, shading, color theory and presentations of interior and exterior architectural rendering projects. Course fee of \$10 applies.

EGDT 1810

Principles of Technology

2:1:3 On Sufficient Demand

* Prerequisite(s): MAT 0990 Recommended

A course in applied physics for those who plan to pursue careers as technicians or who want to keep pace with the advances in technology. Blends an understanding of basic principles with practice in practical applications. This course is made up of six units, each of which focuses on one of the important physics concepts such as force, work, rate, resistance, energy, and power. Each unit explains how that concept applies to mechanical, fluid, electrical, and thermal systems.

EGDT 2010

Advanced Electrical CAD

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 1010 and EGDT 1040, with "C-" grade or higher

For second year Drafting Technology majors. Concentrates on the completion of electrical-electronic diagrams using CAD procedures. Those layout procedures studied will include logic and schematic diagrams. Printed wiring board and AC motor control wiring diagram layout from reference schematics will also be covered. Includes a basic introduction to AC electrical theory including inductance and capacitance and their relationship to AC motors and motor controls. Completers should have entry-level skills for an electrical-electronic drafting position. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2020

Descriptive Geometry

3:3:0 Fall, Spring

* Prerequisite(s): EGDT 1000 or equivalent and EGDT 1040 both with a grade of C- or higher

Required for Engineering Graphics and Design Technology majors. Elective for engineering majors or others interested in graphical problem solving. Teaches advanced orthographic projection principles used to render view of objects from any conceivable direction. Instructs students in the creation of views needed to solve problems graphically rather than mathematically. Solutions include true length and angle, true size and shape, clearance, bearing, slope and grade, intersections, shortest distance, dihedral angle, and revolution. Use of accurate scaling techniques is reinforced. Problems are completed either manually or using CAD. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2040

Piping Drafting

2:2:0 Fall, Spring

* Prerequisite(s): EGDT 1040 with a grade of C- or higher

Includes single-line and double-line pipe symbols. Covers both isometric and orthographic projection. Studies piping connections such as welded, screwed, soldered, flanged, and bell and spigot. Uses manufacturer's and reference materials specifications. Includes information on copper tubing and brass fittings. Uses hydraulic theory and formulas. Also uses computer (CAD) to develop drawings. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2050

Plate Layout

2:2:0 Fall, Spring

* Prerequisite(s): EGDT 2020 with a grade of C- or higher

A continuation of Descriptive Geometry (EGDT 2020). Patterns are made of rolled or folded surfaces such as bins, hoppers, duct work, vent pipes, tanks, storage containers, etc. Patterns are also made for pipe end cuts, pipe intersections, transition pieces and twist angles. Emphasizes three types of pattern development: (1) parallel line, (2) radial line, (3) triangulation. Includes practical problems in finding the line of intersection between surfaces and drawing patterns. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2100

Advanced Architectural

3:3:0 Fall

* Prerequisite(s): EGDT 1100 and EGDT 1020 both with a grade of C- or higher

Covers the layout, detailing, dimensioning, and room identification of a commercial floor plan in a 3D Architectural software. Includes completing a door and window schedule, a furnishing plan, a reflected ceiling plan, building sections, a roof plan, and exterior elevations. Covers the sketching of common details along with discussions on the various methods and materials used in commercial construction. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2200

Advanced Mechanical

3:3:0 Spring

* Prerequisite(s): EGDT 1200 and (EGDT 1070 or EGDT 1071) all with a grade of C- or higher

Employs 3D modeling software to enhance design processes, including sketching, parametric modeling, 3D assemblies, and producing 2D working drawings. Included are sheet metal, structural parts, mass property, and stress analysis. Software fee of \$18 applies. Lab access fee of \$35 computers applies.

EGDT 2300

Advanced Structural CAD

3:3:0 Spring

* Prerequisite(s): EGDT 1300 and (MATH 1060 or EGDT 1610) both with a grade of C- or higher

A second year class for students who have completed first year structural drafting and want to enhance their knowledge of structural steel detailing. Includes the proper views and dimensioning practices for columns, stairways, handrails, cross-bracing, anchor bolt layout, erection drawing, and field bolt lists. Completers should be ready for entry-level employment as a structural steel detailer for small detailing companies or large construction companies. Software fee of \$18 applies. Lab access fee of \$35 computers applies.

EGDT 2310

Structural Steel Modeling

3:3:0 Spring

* Prerequisite(s): EGDT 1040 and EGDT 1300 both with a grade of C- or higher

Teaches Tekla Structures modeling software. Includes modeling of structural steel buildings, hoppers, stairs, piping, and miscellaneous steel projects. Prepares students for detail and erection drawings which are produced for fabrication and erection of structural steel projects. Software fee of \$18 applies. Lab access fee of \$35 computers applies.

EGDT 2400

Surveying Applications and Field Techniques II

3:3:0 Fall

* Prerequisite(s): EGDT 1040 or equivalent, EGDT 1400 and (EGDT 1600 or MATH 1060) both with a grade of C- or higher

Covers advanced concepts in the U.S. Public Land and State Plane Coordinate systems. Utilizes advanced surveying instruments such as total station, automatic level, GPS equipment, and data collectors. Covers advanced leveling procedures, volume computations, monumentation, mapping, boundary surveys, and route surveys. Features the writing of legal property descriptions. Builds upon knowledge of safe surveying procedures. Includes use of surveying calculation softwares. Covers horizontal curve calculations and highway staking. Completers should be able to work as an instrument person on survey crews and also prepare the drawings related to the surveys. Lab access fee of \$35 for computers applies Software fee of \$18 applies. Course fee of \$12 for materials applies

EGDT 2500

3 Dimensional Modeling--Civil 3D

3:3:0 Spring

* Prerequisite(s): EGDT 1040, EGDT 1400

Introduces design workflow of typical civil engineering firms. Employs functions of Autodesk Civil 3D application software for civil design and modeling. Includes Digital Terrain Models (DTM's), street alignments, plan and profiles, grading, and utilities/piping design and drafting. Focuses on the development of a full set of civil engineering improvement plans for a residential subdivision. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2600

Statics

3:3:0 Fall, Spring

* Prerequisite(s): MATH 1060 or EGDT 1610 both with a grade of C- or higher

For students preparing for the second year design classes. Covers the basic principles of statics, coplanar force systems, coplanar-concurrent force systems, and noncoplanar-concurrent force systems. Prepares students for entry-level employment as a design drafter in structural, architectural, and mechanical drafting.

EGDT 2610

Strength of Materials

3:3:0 Fall, Spring

* Prerequisite(s): EGDT 2600 with a grade of C- or higher

Studies strength of materials dealing with direct stress in compression, tensile, and shear. Also covers engineering materials and their properties dealing with stress and deformation, centroids, moments of inertia, section modules, tension and the calculations of beams, girders and columns under various loading conditions. Includes calculations to determine the deflection in beams and girders under various load conditions.

Course Descriptions

EGDT 2710

Special Problems Mechanical

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 2200 with a grade of C- or higher

An advanced course in mechanical layout and design using solid modeling techniques. Students, with approval, may design and layout projects of their choice. Final details are fabricated in the machine shop. Lab access fee of \$35 for computers applies.

EGDT 2720

Special Problems Surveying

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 2400 and (MATH 1060 or EGDT 1610) both with a grade of C- or higher

For people seeking a surveyor's license, civil engineering, drafting and construction management majors. Covers instrument maintenance and calibration, basic photogrammetry and surveying for photogrammetry, mine surveying, construction surveying, resection, and legal aspects of land surveying. Completers should have job skills for surveying and civil technology. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2730

Special Problems Civil Drafting

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 1400 with a grade of C- or higher

For people seeking a surveyor's license or intended Civil Engineering and Engineering Graphics and Design majors desiring a civil drafting emphasis. Covers preparation of drawings associated with surveying and civil engineering and design. Projects include: property surveys and subdivision design, geotechnical investigations, wastewater treatment, storm drains, highway design, topographic mapping, earthen and concrete dams, and NICET certifications. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2740

Special Problems Architectural

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 1100 with a grade of C- or higher

A special problems course in architectural drafting. Teaches how to layout and detail a floor plan using a 3D modeling package. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2750

Special Problems Architectural Rendering

2:2:0 On Sufficient Demand

For students who wish to develop additional architectural rendering skills to enhance their job performance. Covers theory of perspective, laying out a building perspective from blueprints, inking techniques to develop a finished rendering, and quick coloring methods for ink renderings. Course fee of \$10 for materials applies.

EGDT 2760

Special Problems Structural

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 1300 with a grade of C- or higher

Provides opportunities for in-depth study in structural steel drafting. Teaches beam sizing and selection for design drawing. Requires a special class project with complete objectives and goals outlined and presented to the instructor for approval. Emphasizes project documentation. Computer graphics are an important part of this course. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 2780

Special Problems Electrical

2:2:0 On Sufficient Demand

* Prerequisite(s): EGDT 1010 with a grade of C- or higher

For students who wish to advance beyond EGDT 2010 through the development of an outside project which incorporates advanced theory and drawing procedures. The instructor will review project outline to ensure that it meets course objectives and will monitor student progress, establishing progressive goals. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 281R

Cooperative Work Experience

1 to 8:0:5 to 40 Fall, Spring, Summer

* Prerequisite(s): EGDT 1010, EGDT 1040, EGDT 1070 or EGDT 1071, EGDT 1020, EGDT 1100, EGDT 1200, EGDT 1300, and EGDT 1400, all with a C- or higher

For drafting students to receive actual on-the job work experience. Requires work assignments to be set up with businesses and industries who are involved in drafting and design, construction, or manufacturing. Eight credits may apply toward graduation. May be graded credit/no-credit.

EGDT 2850

Cooperative Correlated Instruction

Orientation

.5:5:0

Fall

Designed to orient the student to opportunities offered by the school, department, community, and industry, and to assist cooperative work experience. Time is spent on the importance of working and communicating with others.

EGDT 2860

Cooperative Correlated Instruction

SkillsUSA

.5:5:0

Spring

SkillsUSA is a first year class for Engineering Graphics and Design Technology majors. Includes leadership training, parliamentary procedure, job interview skills, prepared speaking, extemporaneous speaking, and organizational skills. Upon completion, the student should understand the SkillsUSA organization and how it helps to build leadership skills.

EGDT 2870

Portfolio and Career Preparation

1:1:0

Fall, Spring

Required for Engineering Graphics and Design Technology majors. Teaches necessary job acquisition skills. Instructs students in the job search process, including production of typical types of correspondence, job interview techniques, and creation of presentation-quality portfolios. Correspondence includes letters of application, resumes, follow-up letters, letters of acceptance and rejection, and references. Interview techniques include interview preparation, appearance, and question/answer techniques. Final project is portfolio of samples of work in all areas of Engineering Graphics & Design Technology learned for the degree. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

EGDT 3500

Advanced Civil Drafting and Design

3:3:0

Spring

* Prerequisite(s): [(EGDT 1040 or EGDT 1060) and EGDT 1400 each with a grade of C- or higher] and University Advanced Standing

Covers the analysis, design and preparation of drawings associated with the surveying and civil engineering fields. Exposes the student to the NICET certification process. Focuses on GPS and GIS technologies to acquire design data. Develops a working knowledge of the Utah Department of Transportation Standard Plans and Specifications. Projects include: property surveys, topographic mapping, subdivision design, geotechnical investigations, Water and Wastewater Treatment Plants, storm drainage, highway design, traffic flow diagrams, and earthen and concrete dams. Lab access fee of \$35 for computers applies.

English Basic Composition (ENGH)

ENGH 0890

Literacies and Composition Across the University

5:5:0

Fall, Spring, Summer

* Prerequisite(s): Appropriate placement scores.

Teaches reading-based writing (reading-to-write). Helps students bridge the gap between personal and academic writing and practice ways their personal literacies, experiences, opinions, and observations extend to particular academic conversations. Emphasizes extensive reading throughout the semester using models for organization, style and primary sources for classroom discussions and essay content. Lab access fee of \$15 for computers, software applies.

ENGL 1000
Literacies and Composition Across Communities
5:5:0 **Fall, Spring, Summer**
 * Prerequisite(s): ENGL 0890 or appropriate placement scores.

Focuses on reading-based writing with a strong rhetorical concentration; expands reading and writing concepts from 0890 and prepares students for reading and writing in future courses and future situations. Provides strong skills development in digital literacy for multi-media content creation, research, and presentations. Provides a project-based curriculum providing students with authentic contexts, audiences, and opportunities to be intrinsically motivated to develop writing and reading skills and knowledge. May be delivered hybrid and/or online. Lab access fee of \$15 for computers applies.

English (ENGL)

ENGL 1010 **CC**
Introduction to Writing
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): Appropriate test scores taken within the last three years or completion of ENGL 1000 with a grade of C- or higher.

Teaches rhetorical knowledge and skills, focusing on critical reading, writing, and thinking. Introduces writing for specific academic audiences and situations. Emphasizes writing as a process through multiple drafts and revisions. Includes major essay assignments, writing and collaboration, research writing, journals, and portfolios. May be delivered hybrid and/or online. Lab access fee of \$7 for computers applies.

ENGL 101H **CC**
Introduction to Writing
3:3:0 **Fall, Spring**
 * Prerequisite(s): Appropriate test scores taken within the last three years or completion of ENGL 1000 with a grade of C- or higher.

Teaches rhetorical knowledge and skills, focusing on critical reading, writing, and thinking. Introduces writing for specific academic audiences and situations. Emphasizes writing as a process through multiple drafts and revisions. Includes major essay assignments, writing and collaboration, research writing, journals, and portfolios. Honors sections challenge the student to take more qualitatively substantive and/or advanced approaches to course content and assignments. Lab access fee of \$7 for computers applies.

ENGL 2010 **CC**
Intermediate Writing Humanities Social Sciences
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): Appropriate ACT test scores taken within the last three years or completion of ENGL 1010 or ENGL 101H with a grade of C- or higher.

Emphasizes academic inquiry and research in the humanities and social sciences. Explores issues from multiple perspectives. Teaches careful reasoning, argumentation, and rhetorical awareness of purpose, audience, and genre. Focuses on critically evaluating, effectively integrating, and properly documenting sources. In addition to major essay assignments, may include in-class writing and collaboration, an annotated bibliography, oral presentations, and portfolios. May be delivered hybrid and/or online. Lab access fee of \$7 for computers applies.

ENGL 201H **CC**
Intermediate Writing Humanities/Social Sciences
3:3:0 **Fall, Spring**
 * Prerequisite(s): Appropriate ACT test scores taken within the last three years or completion of ENGL 1010 or ENGL 101H with a grade of C- or higher.

Emphasizes academic inquiry and research in the humanities and social sciences. Explores issues from multiple perspectives. Teaches careful reasoning, argumentation, and rhetorical awareness of purpose, audience, and genre. Focuses on critically evaluating, effectively integrating, and properly documenting sources. In addition to major essay assignments, may include in-class writing and collaboration, an annotated bibliography, oral presentations, and portfolios. Honors sections challenge the student to take more qualitatively substantive and/or advanced approaches to course content and assignments. Lab access fee of \$7 for computers applies.

ENGL 2020 **CC**
Intermediate Writing Science and Technology
3:3:0 **Fall, Spring**
 * Prerequisite(s): Appropriate ACT test scores taken within the last three years or completion of ENGL 1010 or ENGL 101H with a grade of C- or higher.

Emphasizes academic inquiry and research in science and technology fields. Explores issues from multiple perspectives. Teaches careful reasoning, argumentation, and rhetorical awareness of purpose, audience, and genre. Focuses on critically evaluating, effectively integrating, and properly documenting sources. In addition to major essay assignments, may include in-class writing and collaboration, an annotated bibliography, oral presentations, and portfolios. May be delivered online. Lab access fee of \$7 for computers applies.

ENGL 2030 **HH**
Writing for Social Change
3:3:0 **Fall**
 * Prerequisite(s): ENGL 2010 with a grade of C- or higher
 Introduces theories and strategies of persuasion to help students understand and use basic tools of civic literacy, including critical thinking, reading, and writing. Uses writing to engage with complex social issues. Includes analysis and production of texts such as letters to the editor, opinion-editorials, writing for non-profit organizations, and political speeches.

ENGL 2050
Editing
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 1010

Covers the essentials of editing manuscripts for publication. Provides students with the necessary knowledge of punctuation, grammar and usage as well as the symbols and conventions of editing. Lab access fee of \$12 for computers applies.

ENGL 2120
Fantasy Literature
3:3:0 **Fall**
 * Prerequisite(s) or Corequisite(s): ENGL 1010

Surveys major fantasy authors from the 19th century to the present. Teaches key elements of the genre, including world creation, character, and significant themes. May include a creative writing component.

ENGL 2130 **HH**
Science Fiction
3:3:0 **Spring**
 * Prerequisite(s) or Corequisite(s): ENGL 1010

Presents a chronological survey of major Science Fiction authors from Mary Shelley (1818) to the present. Emphasizes the importance of character, setting, plot, and scientific ideas in analyzing literature. Uses discussion, lectures, videos, and films to help students increase appreciation for the literary genre and its works. Completers will have a better understanding of science fiction, plus enhanced writing skills.

ENGL 2150 (Cross-listed with: CINE 2150) **HH**
Critical Introduction to Cinema Studies
3:3:0 **Spring**
 * Prerequisite(s): ENGL 2010

Studies film as an aesthetic and cultural medium. Teaches the fundamentals of film, including narrative form, mis en scene, cinematography, editing, sound, and non-narrative forms. Teaches film analysis, including ideological approaches, and considers film as a cultural institution. May be delivered hybrid.

ENGL 217G (Cross-listed with: CINE 217G, COMM 217G) **HH**
Race Class and Gender in U S Cinema GI
3:3:0 **Fall**
 * Prerequisite(s): ENGL 1010

Raises cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of the representation of race, class, and gender in American cinema. Focuses on both Hollywood and independent minority filmmakers. Some films screened may carry an 'R' rating.

ENGL 2200 **HH**
Introduction to Literature
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s) or Corequisite(s): ENGL 1010

Introduces literary appreciation. Teaches criticism and terminology as applied to various types of literature, including fiction, poetry, and drama. Uses discussion, lecture, films, videos, and tests.

Course Descriptions

<p>ENGL 2210 HH Introduction to Folklore 3:3:0 Spring * Prerequisite(s) or Corequisite(s): ENGL 1010</p> <p>Introduces the study of folklore. Presents the dynamics of the traditional expressions of a variety of folk groups. Emphasizes folklore performance and its cultural context. Provides practical experience in folklore collection.</p>	<p>ENGL 230H HH Shakespeare 3:3:0 On Sufficient Demand * Prerequisite(s): ENGL 1010</p> <p>For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical evaluation of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today.</p>	<p>ENGL 2610 HH British Literature before 1800 3:3:0 Fall, Spring, Summer * Prerequisite(s) or Corequisite(s): ENGL 1010</p> <p>Presents a survey of British literature with emphasis on the most important works of the best writers from 450-1800 A.D. Introduces Old English, Middle English, Renaissance, and Neo-Classical British literature. Uses discussion, lecture, films, videos, tests, and papers.</p>
<p>ENGL 2230 HH Myths and Legends in Literature 3:3:0 Fall * Prerequisite(s) or Corequisite(s): ENGL 1010</p> <p>Introduces students to myths and legends that are the foundation of literature. Uses discussion, storytelling, videos, journals, and portfolios.</p>	<p>ENGL 2310 HH Technical Communication 3:3:0 Fall, Spring, Summer * Prerequisite(s): ENGL 1010</p> <p>For any student wishing to improve written communication skills. Teaches basic technical writing skills used in a variety of professional settings. Emphasizes audience analysis, page layout and document design and writing for the audience. Students will produce a variety of documents including technical reports, instructions, proposals, presentations, and other work-related documents.</p>	<p>ENGL 2620 HH British Literature after 1800 3:3:0 Fall, Spring, Summer * Prerequisite(s) or Corequisite(s): ENGL 1010</p> <p>Introduces British Romanticism, Victorianism, Modernism, and post-Modernism. Emphasizes important works of the best writers from approximately 1800 to the present. May include discussion, lecture, videos, films, tests, and papers.</p>
<p>ENGL 223H HH Myths and Legends in Literature 3:3:0 On Sufficient Demand * Prerequisite(s): ENGL 1010</p> <p>Provides a thorough foundation for the study of classical mythology; explores common myth themes through guided research and projects in world myth; analyzes myth through a variety of theoretical perspectives. Focuses on lecture, discussion, written and oral presentations, myth analysis, exams, and papers.</p>	<p>ENGL 2510 HH American Literature before 1865 3:3:0 Fall, Spring, Summer * Prerequisite(s) or Corequisite(s): ENGL 1010</p> <p>Surveys American essays, letters, biographies, fiction, and poetry up to 1865. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.</p>	<p>ENGL 2730 Introduction to Gender Studies 3:3:0 On Sufficient Demand * Prerequisite(s): ENGL 2010</p> <p>Analyzes gender from an interdisciplinary model. Explores such issues as the definition of masculinity and femininity, the function of gender roles and stereotypes, and what it means to have sexed bodies and minds. Analyzes questions of gender through the different frameworks of literature, anthropology, sociology, history, biology, psychology, and philosophy.</p>
<p>ENGL 2250 HH Creative Process and Imaginative Writing 3:3:0 Fall, Spring, Summer * Prerequisite(s): ENGL 1010 with a grade of C- or higher</p> <p>Introduces students to the basic literary elements of writing short fiction, drama, creative non-fiction, poetry, or combinations of these. Uses readings from a wide range of contemporary authors, guest speakers, workshops, and student writing to enhance the techniques and aesthetics of creative writing. Lab access fee of \$7 for computers applies.</p>	<p>ENGL 2520 HH American Literature after 1865 3:3:0 Fall, Spring, Summer * Prerequisite(s) or Corequisite(s): ENGL 1010</p> <p>Surveys American essays, letters, biographies, fiction, drama, and poetry from 1865 to the present. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.</p>	<p>ENGL 276R Themes in Literature 3:3:0 Fall * Prerequisite(s): ENGL 1010</p> <p>Analyzes specific themes/topics in literature (generic or other). Requires reading and study of representative works. Includes short papers, tests and presentations. Possible course themes are: horror, fantasy, nonfiction, detective fiction, and western American literature, among others. May be repeated for up to 6 credits toward graduation.</p>
<p>ENGL 225H HH Creative Process and Imaginative Writing 3:3:0 Fall, Spring * Prerequisite(s): ENGL 1010 with a grade of C- or higher</p> <p>Introduces students to the basic literary elements of writing short fiction, drama, creative nonfiction, poetry, or combinations of these. Uses readings from a wide range of contemporary authors, guest speakers, workshops, and student writing to enhance the techniques and aesthetics of creative writing. Smaller class size to facilitate increased student interaction and inquiry. Lab access fee of \$7 for computers applies.</p>	<p>ENGL 2600 HH Critical Introduction to Literature 3:3:0 Fall, Spring, Summer * Prerequisite(s): Completion of ENGL 2010 or ENGL 2020 with a grade of C- or higher.</p> <p>Surveys contemporary critical, theoretical, and ideological approaches to literature (such as structuralist, poststructuralist, psychoanalytical, feminist / gender, Marxist, new historical, postcolonial, etc.). Introduces key literary terms and engages close reading techniques. Includes lectures, screenings, student presentations, analyses and written reports, exams, and a final essay in MLA format and documentation. Required for English majors. Should be taken early in major.</p>	<p>ENGL 281R Internship 1 to 8:0:5 to 40 Fall, Spring, Summer * Prerequisite(s): Approval of Cooperative Coordinator</p> <p>Designed for English majors. Provides experience in the student's major. Students who receive credit for an internship must establish learning objectives with their Faculty Sponsor at the beginning of their internship and reflect on their learning through academic work (i.e. papers, journal, etc.). Students are required to submit an evaluation of their experience at the end of the semester. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.</p>
<p>ENGL 2300 HH Shakespeare 3:3:0 Fall, Spring * Prerequisite(s) or Corequisite(s): ENGL 1010</p> <p>For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical review of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today.</p>		

ENGL 290R

English Scholarly Forum

1:1:0 On Sufficient Demand

* Prerequisite(s): ENGL 2010 or ENGL 2020

Requires attendance at academic campus events of student's choice (conferences, lectures, colloquia, symposia, workshops, reading groups, etc.) and composing reflective, written assignments. Includes informal meetings with instructor at the beginning and end of the course. May be taken three times for credit.

ENGL 299R

Independent Study

.5 to 3:0 to 3:0 to 12 On Sufficient Demand

Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. Limited to three credits toward graduation with an AS/AA degree.

ENGL 3000

Professional Considerations for the English Major

1:1:0 Fall, Spring

* Prerequisite(s): Completion of ENGL 2010 or ENGL 2020 with a grade of C- or higher and University Advanced Standing

Discusses various career choices for English majors. Familiarizes students with curricular emphases and department faculty. Emphasizes internships and other activities available to help majors professionalize. Features a regular rotation of English faculty guest speakers. English majors must take the course as early as possible, no later than their junior year.

ENGL 3010

Rhetorical Theory

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Considers prominent theories of rhetoric and accompanying methods for the production of texts in various contexts, encouraging adopting, amending, and/or developing hybrid theories of rhetoric.

ENGL 3020

Modern English Grammars

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Explores language structures, discovering connections between grammar (linguistic structure) and language uses (discourse and/or rhetoric). Includes the study of and practice in informed decision-making in the process of developing language structures (grammatical choices) appropriate to a particular rhetorical aim.

ENGL 3030

Writing in the Disciplines

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Focuses on analysis and production of discipline-specific texts. Teaches rhetorical knowledge and skills and emphasizes summarizing, paraphrasing, quoting, critical analysis, synthesizing ideas, and interrogating multiple perspectives. Includes written, oral, visual, and other modes of communication. Lab access fee of \$7 for computers applies.

ENGL 3040

History of the English Language

3:3:0 Fall

* Prerequisite(s): (ENGL 2010 or ENGL 2020) with a grade of C- or higher and University Advanced Standing

Introduces historical origins of the English language and changes that produced our present speech in its many dialects, creoles and pidgins. Combines linguistic and rhetorical histories. For all English majors and others interested in the origins of our language and how it has grown and continues to change.

ENGL 3050

Advanced Editing and Design for Print Media

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing; ENGL 2050 recommended

Refines student editing, design, and publishing skills. Provides students with the opportunity to take manuscripts from editing to press-ready. Teaches industry standards for current publishing tools. Includes projects such as designing books, marketing literature, and corporate identities. Covers design, typography, and pre-press issues as they relate to writing and editing documents. Recommended for students involved with student publications, including journals and campus newspaper. Lab access fee of \$12 for computers applies.

ENGL 3060 (Cross-listed with: HUM 3060)

Visual Rhetoric

3:3:0 Fall

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Investigates the growing academic and cultural interest in the rhetorical nature of visual texts. Teaches critical thinking about the consumption and productions of images and multimodal texts. Explores visual grammars and other theories of visual rhetoric as articulated by contemporary image, language, and scholars of rhetoric. Encourages the development of theoretical and practical knowledge through reading, discussion, and analysis as well as through the production of visual texts and written work.

ENGL 3070

Public Rhetorics

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 with a C- or higher and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENGL 3010

Investigates the structure and nature of rhetorical identities and arguments in public discourse. Introduces genres of public discourse to examine their rhetorical construction and circulation to mass audiences. Explores and critiques theories of democratic deliberation. Studies texts in media such as advertising, blogs, film, social networking venues, television, and websites through specific theories of public rhetoric. Examines arguments regarding the complex nature of public ethos. Includes reading, discussion, analysis, research, and production of public rhetorics through a variety of media and methods.

ENGL 3085

Rhetorical Approaches to Popular Culture

3:3:0 Spring

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENGL 3010

Explores popular culture as a contested site of meaning-making, identity-formation, and shared experiences. Reviews historical theories that construct the status of the popular or the mainstream versus the comparative labels of the "highbrow" and the "subcultural." Analyzes how media access, socioeconomic context, cultural movements, and generational differences formulate taste preferences and different styles of engagement with popular texts. Focuses on the rhetorical practices of pop culture creation and consumption with an emphasis on personal and political ramifications. Examines texts that are industry-produced and texts created through the practices of fans, critics, and theorists.

ENGL 3090

Academic Writing for English Majors

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 2600 with a grade of C- or higher and University Advanced Standing

* Corequisite(s): ENGL 3000 Recommended

Centers on scholarly research and writing in fields related to English Studies, drawing on students' areas of focus. Emphasizes analysis, rhetorical theories of writing, development, style, oral presentations, and primary and secondary research techniques. Prepares students to extend their abilities with researched writing in other upper-division courses and teaches students advanced scholarly attitudes toward researched writing. Lab access fee of \$7 for computers applies.

ENGL 3110 (Cross-listed with: COMM 3110, THEA 3110)

Non Fiction Cinema History

3:2:3 On Sufficient Demand

* Prerequisite(s): ENGL 2150 and University Advanced Standing

Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANOOK OF THE NORTH to the current trend of reality television and popular documentaries. Some films screened may carry an "R" rating.

ENGL 314G (Cross-listed with: COMM 314G, THEA 314G)

Global Cinema History

3:2:3 On Sufficient Demand

* Prerequisite(s): (ENGL 2150 or THEA 1023) and University Advanced Standing

Studies the evolution of global film styles, movements, stars, and genres with a focus on international cinema chronologies outside the United States. Some films screened may be considered controversial and carry an "R" rating.

Course Descriptions

ENGL 3150 (Cross-listed with: CINE 3150, COMM 3150)

Film Theory

3:3:0 On Sufficient Demand

* Prerequisite(s): (CINE 2150 or ENGL 2150) and University Advanced Standing

Emphasizes film theory as cultural analysis. Relates cultural phenomena to films that reflect elements of contemporary film theory focusing on spectatorship, stars, narration, authorship, genre, and film production. Includes lecture, film screenings, and critical discussions of assigned readings. Some films screened may be considered controversial and carry an "R" rating.

ENGL 3300 Collaborative Communication for Technology Professions

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Teaches technical communication skills and methodologies in demand by business and industry. Provides collaborative experience in the development of a professional, team-oriented project, using suitable technology. Integrates textual and visual rhetorics through effective design practices. Emphasizes primary and secondary research as well as usability testing. Lab access fee of \$12 for computers applies.

ENGL 3320 Grant and Proposal Writing

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Introduces students to private and governmental funding sources. Demonstrates successful proposal and grant writing strategies. For interested upper-division students and Technical Writing emphases and minors. Lab access fee of \$12 for computers applies.

ENGL 3340 Digital Document Design

3:3:0 Fall

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Teaches web-based document design and other digital genres. Introduces HTML, CSS, and industry standard tools. Emphasizes rhetorical differences between digital and print documents and focuses on the collaborative and viral nature of web texts. Lab access fee of \$12 for computers applies.

ENGL 3420 Intermediate Fiction Writing

3:3:0 Fall, Spring

* Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing

Implements a variety of intermediate techniques for generating, writing, and revising stories for publication and public readings, along with readings in theory and fiction. Lab access fee of \$7 for computers applies.

ENGL 3430 Play Writing for Creative Writers

3:3:0 On Sufficient Demand

* Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing

Teaches the skills and processes of a variety of styles of playwriting presented through textual analysis of written plays and play attendance. Includes workshops, lectures, discussions, and a final revised portfolio of original dramatic works.

ENGL 3440 Intermediate Poetry Writing

3:3:0 Fall, Spring

* Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing

Provides practices and techniques for generating, writing, and revising original poetry. Includes poetry readings, memorizations, and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry.

ENGL 3450 Intermediate Creative Nonfiction Writing

3:3:0 Fall, Spring

* Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing

Provides intermediate instruction for writing nonfiction prose. Explores and provides practice in various categories of nonfiction, including, for example, narrative, memoir, interpretive reporting, found text, and experimental forms. Addresses the stylistic and compositional challenges of transforming experience into writing.

ENGL 3460 Wilderness and Environmental Writing

3:3:0 Fall

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Introduces students to the literary conversation of appreciation and responsibility for our natural world and teaches them how to engage meaningfully in that conversation. Requires (1) extensive readings in literature of the natural world, including scientific, polemic, creative non-fiction, and fiction writing modes bearing on environmental stewardship and (2) a writing portfolio that includes polemic, creative non-fiction, fiction, and poetry. Includes discussion of assigned readings and workshoping of student manuscripts. Requires overnight wilderness field trips; students with disabilities will be accommodated on field trips.

ENGL 3510 Early American Literature

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Examines selected authors and themes in American literature from its beginnings through the 1820s. Identifies texts within their cultural and historical contexts. Explores multiple genres, including autobiography, essay, poetry, drama, and fiction.

ENGL 3520 Literature of the American Renaissance

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies American literary works during the Romantic period, roughly 1830-1870. Includes study of authors such as Hawthorne, Melville, Poe, Emerson, Thoreau, Douglass, Jacobs, Stowe, Whitman, and Dickinson. Identifies the contribution of both canonical and lesser-known authors within cultural and historical contexts.

ENGL 3525 American Literary Realism and Naturalism

3:3:0 On Sufficient Demand

* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies literature associated with the American realist and naturalist movements between the Civil War and the early twentieth century, by authors such as Mark Twain, Henry James, Kate Chopin, Theodore Dreiser, and Edith Wharton. Explores aesthetic and philosophical issues encountered by authors who attempt to depict social and natural environments realistically.

ENGL 3530 Modern American Literature

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies modern American literature (c. 1900-1945) in relation to intellectual and historical developments. Emphasizes important works by major writers responding to radical changes in America brought on by shifting demographics, artistic experimentation, and world war.

ENGL 3540 Contemporary American Literature

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 2010 and (ENGL 2510 or ENGL 2520), both with a grade of C- or higher and University Advanced Standing

Studies significant authors, themes, and topics in American literature (c. 1945 to present) in relation to historical and intellectual developments and contemporary literary theory. Explores multiple genres, including fiction, poetry, drama, and film.

ENGL 357G Native American Literature

3:3:0 Fall

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys a wide range of Native American literature. Examines the cultures and identities of Native Americans through the study of literary texts including mythology and works by contemporary writers such as N. Scott Momaday, Leslie Marmon Silko, Louise Erdrich, and Sherman Alexie, among others.

ENGL 3610**Medieval Literature****3:3:0** **Spring**

* Prerequisite(s): ENGL 2010 and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Covers major authors, works, and themes from Anglo Saxon, Middle English, up to the Tudor period (750 to 1485 AD). Studies selected authors such as "Beowulf" poet, Julian of Norwich, Langland, Margery Kempe, Malory, Marie De France, the "Pearl" poet, and the Wakefield Master. Includes brief discussion of Chaucer. Analyzes relevant cultural, philosophical, and historical aspects of the period.

ENGL 3620**Tudor British Literature****3:3:0** **Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Covers major authors, works, and themes from the Tudor period (1485-1603). Studies selected authors. May include Surrey, Wyatt, Skelton, Moore, Marlowe, Sydney, Spenser, Queen Elizabeth I, Raleigh, Mary Herbert, Shakespeare, Drayton, Campion, and Nashe. Briefly discusses Shakespeare. Analyzes relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 3630**Stuart British Literature****3:3:0** **Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Covers major authors, works, and themes from the Stuart period (Jacobean, English Civil War, and Restoration eras). Studies selected authors. May include Shakespeare, Jonson, Lanyer, Donne, Wroth, Herbert, Herrick, Vaughn, Marvell, Cavendish, Philips, Milton, Behn, and Dryden. Discusses relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussion, oral presentations, films, journal or response writing, and papers.

ENGL 3640**Restoration and 18th Century British Literature****3:3:0** **Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020), and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Surveys major authors and works from the Augustan and Johnsonian eras of British literature, including literary, political, historical, religious, and social trends and ideas. Studies selected authors. May include Defoe, Swift, Pope, Johnson, Thompson, Gray, Collins, Goldsmith, Montague, Burney, and others. Includes lectures, discussion, oral presentations, papers, and tests.

ENGL 3650**Romantic British Literature****3:3:0** **Spring**

* Prerequisite(s): ENGL 2010 and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Explores British poetry, fiction, and nonfiction of the Romantic era (approx. 1780-1830) by authors including Blake, Wordsworth, Coleridge, Byron, Keats, the Shelleys, and Austen. Examines historical and philosophical trends that shaped the era's literature and were shaped by it.

ENGL 3655**Victorian British Literature****3:3:0** **Fall**

* Prerequisite(s): ENGL 2010 and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher, and University Advanced Standing

Explores British poetry, drama, fiction, and nonfiction of the Victorian age (approx. 1830-1900) by authors including Dickens, Tennyson, Eliot, the Brownings and Rossettis, Hardy, and Wilde. Examines historical and philosophical trends that shaped the era's literature and were shaped by it.

ENGL 3660**Modern British Literature****3:3:0** **Spring**

* Prerequisite(s): ENGL 2010 and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Explores modern British literature (c. 1900-1945) in relation to intellectual and historical developments. Emphasizes the literature of empire and of the world wars, modernist experimental writing, and reactions against modernism.

ENGL 3670**Contemporary British Literature****3:3:0** **Fall**

* Prerequisite(s): ENGL 2010 and (ENGL 2610 or ENGL 2620), both with a grade of C- or higher and University Advanced Standing

Explores contemporary British literature (1945-present) in relation to intellectual and historical developments. Emphasizes postmodern and postcolonial writing alongside traditional forms that, together, characterize recent British literature.

ENGL 3710**Literature by Women****3:3:0** **Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Provides a substantive framework of important critical issues regarding literature by or about women. Studies applications of feminist critical theory to fiction, poetry, personal essays, or drama written by women. Requires oral presentations or discussions by students, written reports, and exams.

ENGL 373R**Literature of Cultures and Places****3:3:0** **Fall, Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies one of the literatures that has developed using the English language but that are based on nations other than England or the United States (such as Canada or India) or in cultures within the British Isles or North America that are defined by ethnic or religious culture or by geography (such as African-American, Mormon, Southern, or Irish). May survey the literature of the culture or region as a whole or focus on representative works. May be repeated twice with different designations. Uses lectures, discussion, visiting writers, videos, tests, and papers.

ENGL 374G**Literature of the Sacred****3:3:0** **Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Focuses on reading and interpreting primary texts of Hinduism, Buddhism, Judaism, Christianity, Islam, and others emphasizing resonances of these texts in later works of literature. Discusses texts from a literary standpoint within the genre of "religious writings." Requires reading, informal and formal writing, and tests.

ENGL 376G**World Literature****3:3:0** **Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies selected works of World Literature from a variety of authors, geographic regions, or time periods. Introduces cultures and ideas of world literature. Focuses on careful, critical readings on a particular region or culture, time period, or author or closely related authors.

ENGL 377G**Latina/o Literature in America****3:3:0** **Fall**

* Prerequisite(s): University Advanced Standing

Studies Latina/o literature written in and about the United States and North America through close readings of novels, poetry, and other media from a variety of national, ethnic, and cultural traditions and perspectives including Mexico, the Caribbean, and the Brazuca/o experience. Examines issues such as identity, language, culture, race, ethnicity, and national borders, alongside questions of style, form, symbolism, and narrative. Integrates active class discussions, film screenings, student presentations, examinations, and papers. All texts are either written in English or taught in translation.

ENGL 3780**Mormon Literature****3:3:0** **Spring**

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Surveys the foundations of Mormon literature as expressed through short fiction, novels, personal essays, drama, history and criticism.

Course Descriptions

ENGL 3790

Contemporary LGBT/Q Literature

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Addresses interrelated issues of gender, ethnicity, geography, and social class. Surveys literary, historical, critical, and cultural texts that reflect the diversity inherent among sexually marginal communities in the United States. Includes, but is not limited to works of fiction (primarily novels and short stories), drama, poetry, film and visual art.

ENGL 3820

History of Literary Criticism

3:3:0 **Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Explores rhetorical strategies and philosophical ideas influencing the reading and writing of literary texts from Plato and Aristotle to the present. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 3890

Contemporary Critical Approaches to Literature

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): Completion of ENGL 2600 with a grade of C- or higher and University Advanced Standing
* Prerequisite(s) or Corequisite(s): ENGL 3090

Provides in-depth study of one contemporary theoretical and critical approach to literature using primary texts. Explicates how interpretive techniques function within the discipline of English Studies. Includes lectures, screenings, student presentations, assigned readings, written reports, exams and a research essay that employs MLA documentation. Required for English majors. Should be taken beginning of junior year.

ENGL 401R

Topics in Rhetoric

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing
* Prerequisite(s) or Corequisite(s): ENGL 3010

Examines advanced topics in rhetoric and writing. Studies writing's central role in education, communication, and culture. Emphasizes discourse communities and genres. Analyzes how writing constructs meaning in academic, professional, media, and personal texts. Situates writing as an instrument for community engagement and service learning. May be repeated for a maximum of 6 credits toward graduation.

ENGL 412R

Studies in Literary Genres

3:3:0 **Fall, Spring**

* Prerequisite(s): [(ENGL 2250 or ENGL 225H) and ENGL 2600 each with a C- or higher] and University Advanced Standing

Examines various literary genres, with a different focus each semester. May be repeated with different topics for a maximum of 9 credits toward graduation.

ENGL 414R (Cross-listed with: THEA 414R)

Special Topics in Cinema History

3:2:3 **On Sufficient Demand**

* Prerequisite(s): ENGL 2150 and University Advanced Standing

Focuses study on a specific U.S. or International period or movement. Representative topics may include German Expressionism, Italian Neorealism, New Hollywood Cinema, and etc. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating.

ENGL 416R (Cross-listed with: CINE 416R, THEA 416R)

Special Topics in Film Studies

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2150 or CINE 2150 or THEA 1023) and University Advanced Standing

Covers cinema directors, genre, theory, and social change on a rotating basis. Explains course focus, defines terminology involved, then studies evolution and/or specific texts or contexts, and considers theoretical discourse. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating. Course fee of \$40 for support applies.

ENGL 4210

Methods in Teaching Literacy I

3:3:0 **Fall, Spring**

* Prerequisite(s): [ENGL 2600 and (ENGL 3010 or ENGL 3020 or ENGL 3040)] and University Advanced Standing

Explores issues related to teaching English in secondary schools. Focuses on using the Common Core State Standards (CCSS) to design engaging units in each of the core strands: Reading, Writing, Speaking and Listening, and Language. Focuses on curriculum design, including teaching methods and assessment. Entails class discussion, field observations, and creation of teaching materials.

ENGL 4220

Methods in Teaching Literacy II

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 4210 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): EDSC 4550

Emphasizes the teaching of reading and literature in the secondary English classroom. Presents strategies for teaching skills and concepts outlined in the Utah Core State Standards (UCSS). Explores issues and research related to adolescent literacy through reading and discussion. Requires students to create teaching materials, including unit and lesson plans, and participate in teaching demonstrations. Preparatory to student teaching for English Secondary Education students.

ENGL 4230

Methods in Teaching Literacy III Teaching the Conventions of Writing

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 4210 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): EDSC 4550

Emphasizes developing a writing program in the secondary English classroom, including assigning and assessing student writing. Presents strategies for teaching writing to secondary students, as outlined in the Common Core State Standards (CCSS), which have been adopted by the Utah Office of Education. Includes designing lessons for each of the modes specified in the CCSS: Argument, Informative/Explanatory, and Narrative writing. Integrates the six-trait model, with specific focus on teaching Conventions. Entails class discussion, micro-teaching, and creation of teaching materials.

ENGL 4250

Adolescent Literature

3:3:0 **Fall, Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Engages secondary education majors and other interested students in the study of literature written explicitly for adolescent readers. Explores attitudes towards adolescence as a distinctive psychological, social and moral state using contemporary and time-honored works from various cultures. Particular attention paid to contemporary adolescent issues, history of young adult literature, value instruction, and the role of young adult literature in the literacy development process.

ENGL 4340

Advanced Technical Communication

3:3:0 **On Sufficient Demand**

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and ENGL 2310 and University Advanced Standing

Introduces advanced theory to critically reflect upon workplace genres and values to situate technical communication into broader political and global contexts. Teaches user-centered document design, including initial proposals and research, drafting, collaboration, usability testing, and document management. Emphasizes designing documents for local and university clients.

ENGL 436R

Topics in Technical Communication

3:3:0 **On Sufficient Demand**

* Prerequisite(s): ENGL 2010 with a grade of C- or higher and ENGL 2310 and University Advanced Standing

Examines key issues and theories in technical communication. May be taken twice with different topics. Lab access fee of \$12 for computers applies.

ENGL 4420

Advanced Fiction Writing

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 3420 and University Advanced Standing

Applies a variety of advanced techniques for generating, writing, and revising fiction which includes readings in form, theory, and published works, with an emphasis on workshopping and writing for publication and public readings. Lab access fee of \$7 for computers applies

ENGL 4425
Advanced Fiction Writing II
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 4420 and University Advanced Standing

Applies a variety of advanced techniques for writing and especially revising fiction which includes readings in form, theory, and published works, with an emphasis on workshoping, revising, and preparing for publication, public readings, and graduate school.

ENGL 4440
Advanced Poetry Writing I
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 3440 and University Advanced Standing

Provides further practices and techniques for generating, writing, and revising original poetry. Includes poetry readings, memorizations, workshoping and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry.

ENGL 4445
Advanced Poetry Writing II
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 4440 and University Advanced Standing

Puts into practice a variety of techniques for writing and revising original poetry. Includes poetry readings, memorizations, workshoping, and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry. Includes workshop methodology.

ENGL 4450
Advanced Creative Nonfiction Writing I
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 3450 and University Advanced Standing

Provides advanced instruction for writing nonfiction prose. Explores and provides practice in various categories of nonfiction, including, for example, narrative, memoir, interpretive reporting, found text, and experimental forms. Addresses the stylistic and compositional challenges of transforming experience into writing.

ENGL 4455
Advanced Creative Nonfiction Writing II
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 4450 and University Advanced Standing

Provides advanced instruction in revising, editing, and preparing Creative Nonfiction manuscripts for submissions in well-selected quality venues. Provides practice in finishing work previously shaped in ENGL 3450 and ENGL 4450. Addresses challenges of style, balance, compositional complexity, tradition, and experimentation.

ENGL 4570
Studies in the American Novel
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys the "great American novel," providing historical, regional, and cultural perspectives of one of the richest genres in literary history.

ENGL 4620
Chaucer
3:3:0 **Spring**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies selected works by Chaucer investigating selections primarily from The Canterbury Tales, with some use of Chaucer's other major and minor poetry. Considers context of cultural and historical perspectives of the Middle Ages. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

ENGL 463R
Topics in Shakespeare
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines various topics related to Shakespeare's works. May include study of his genres, poems, sonnets, theater, and/or relevant cultural and historical aspects of his times. May use lectures, discussions, group work, oral presentations, papers, tests, and film. May be repeated for a maximum of 6 credits for graduation with different topics.

ENGL 4640
Milton
3:3:0 **Fall**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys John Milton's major prose and poetry, including an intensive study of "Paradise Lost," placed in context with the important social, political, and religious trends of his time. May include lectures, discussion, oral presentations, papers, tests, and films.

ENGL 471R
Eminent Authors
3:3:0 **Fall, Spring**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces important works of eminent authors. Emphasizes forms of literary expression and place in the historical development of world literature. Studies relevant cultural and historical aspects of the authors' milieu. Includes lectures, discussions, oral presentations, films, tests, and papers. May be repeated twice with different topics.

ENGL 473R
Topics in Gender Studies
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): ENGL 2010, ENGL 2600, and University Advanced Standing

Focuses student reading, research, and discussion on specific areas of concentration within the field of gender studies. Analyzes how gender affects and is affected by culture, ideology, socio-economic factors, history, etc. May be repeated for up to 6 credits toward graduation.

ENGL 474R
Topics in Folklore
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ENGL 2210 or instructor/advisor approval) and University Advanced Standing

Studies one folk genre, one folk group, or one theme which crosses genres and/or groups. Students will collect folklore related to topic under discussion. Uses discussion, readings, folk events, and students' writings. May be repeated twice with different topics.

ENGL 476G
Multi-ethnic Literature in America
3:3:0 **Fall**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys multi-ethnic literature reflecting the rich diversity inherent in American experience. Includes but is not limited to works by Native American, Hispanic American, Asian American, African American authors.

ENGL 481R
Internship
1 to 8:0:5 to 40 **Fall, Spring, Summer**
 * Prerequisite(s): Departmental approval, senior status, and University Advanced Standing

For senior English majors and minors. Internships are intended to offer students opportunities to work with instructors and other professionals on task related to the field of English. Students who receive credit for an internship must establish learning objectives with their Faculty Sponsor at the beginning of their internship and reflect on their learning through academic work (i.e., papers, journal, etc.). Students are required to submit an evaluation of their experience at the end of the semester. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

ENGL 486R
Topics in Literature
3:3:0 **Fall, Spring**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies various topics/themes in fiction, poetry, drama, essay, film, or other art forms such as ethics in literature, queer literature, literature and the environment, literature and war, literature and the civil rights movement, etc. Subject matter will vary each semester. May be repeated twice for different topics.

ENGL 488H
English Honors Seminar
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ENGL 3090 and ENGL 3890) and University Advanced Standing

Emphasizes rigorous analysis and synthesis of topics in British and American literature, rhetoric, and writing, with specific content varying by semester. Uses a seminar approach to enable significant participation by students through discussion, presentations, and written analyses.

ENGL 490R
Directed Readings
1 to 3:0:3 to 9 **Fall, Spring, Summer**
 * Prerequisite(s): Department Chair, Instructor Approval, and University Advanced Standing

Reading and writing assignments designed in consultation with a faculty member to meet special needs or interests not available through regular course work. May be repeated two times for a total of up to 9 credits.

Course Descriptions

ENGL 4950

Senior Seminar

3:3:0

Fall, Spring

* Prerequisite(s): ENGL 3000, ENGL 3090, and ENGL 3890, all with a grade of C- or higher and Explores the value and relevance of an English degree. Professionalizes students by assisting them with career or graduate school preparation. Offers students the opportunity to reflect on their major and to optimize writing and communication skills. Includes revision of an existing paper as a scholarly writing sample and creation of a professional portfolio to display knowledge and abilities. Culminates with submission of a reflective portfolio to the department.

Lab access fee of \$7 for computers applies.

ENGL 498H

Honors Thesis Preparation

3:3:0

On Sufficient Demand

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENGL 488H

Serves as the first half of the thesis experience for Departmental Honors in English. Reviews and improves students' research methodologies. Requires that students initiate collaboration with one or more instructors in a directed research and writing project. Explores and develops thesis topic in consultation with faculty. Builds on skills and knowledge gained in earlier courses, including research skills in primary and secondary sources, critical thinking, and literary analysis.

ENGL 499H

Honors Thesis

3:3:0

On Sufficient Demand

* Prerequisite(s): ENGL 498H and University Advanced Standing

Serves as the second half of the thesis experience for English Honors. Operates as an independent study. Continues the research begun in ENGL 498H. Requires students to write a high-quality, publishable/presentable senior thesis. Requires defense of the thesis and its method before a committee of three faculty.

ENGL 5340

Technical Communication Theory and Practice

3:3:0

On Sufficient Demand

* Prerequisite(s): Acceptance into a Graduate Program or Instructor Approval

Emphasizes the application of technical writing theory through composing a variety of documents commonly used by professionals in technical fields, which may include life sciences, engineering, and pharmacology. Builds off previous work in technical writing classes and/or industry experience to foster a rhetorical foundation for ethical and legal decision making in bureaucratic and global contexts. Stresses critical analysis of successful documents and their place within networks of relevant stakeholders, compliance expectations, and historical restraints. Places further emphasis on managing complex documents and satisfying the needs of diverse audiences. Topics may include: regulatory affairs, environmental hazards, and protocol specification.

Engineering (ENGR)

ENGR 1000

Introduction to Engineering

3:3:0

Fall, Spring

* Prerequisite(s) or Corequisite(s): MATH 1060 or higher

Introduces engineering-problem-solving techniques, design processes, modelling of simple structural and mechanical systems using CAD, and systems analysis in Excel. Emphasizes engineering design procedures by incorporating group projects and presentations. Course Lab fee of \$11 for computers applies. Lab access fee of \$35 for computers applies.

ENGR 1020

Survey of Engineering

1:1:0

Fall, Spring

* Prerequisite(s): MAT 1010 or higher

* Corequisite(s): MATH 1050 or MATH 1055 recommended

Introduces the various areas of engineering to pre-engineering majors and others interested in learning more about the contributions engineers make to our modern society. Includes a brief history of engineering and discussions about what engineers really do. Discusses professional ethics, responsibilities, and career opportunities. Includes lectures, guest speakers, and in-class exercises.

ENGR 1030

Engineering Programming

3:3:0

Fall, Spring

* Prerequisite(s): ENGR 1000

* Prerequisite(s) or Corequisite(s): MATH 1210

Involves modelling and analysis of electro-mechanical systems using Arduino projects. Includes programming in Matlab and C. Applies scientific principles to solve and model engineering problems. Involves developing and writing programs to gather data, guide, and control electro-mechanical devices to achieve predefined objectives. Course fee of \$11 for supplies/materials applies.

ENGR 2010

Engineering Statics

3:3:0

Fall, Spring

* Prerequisite(s): MATH 1210

* Prerequisite(s) or Corequisite(s): PHYS 2210

Teaches principles of engineering mechanics as applied to bodies at rest. Discusses the concepts of position and force vectors, free body diagrams, equilibrium, center of gravity, centroids, distributed loading, friction, area and mass moments of inertia. Applies principles learned in the analysis of trusses, frames and machines. Lab access fee of \$35 for computers applies. Canvas Course Mats \$86/Pearson applies.

ENGR 2030

Engineering Dynamics

3:3:0

Fall, Spring

* Prerequisite(s): ENGR 2010, MATH 1220, and PHYS 2210

Teaches principles of engineering mechanics as applied to bodies in motion. Studies kinematics and kinetics of particles and rigid bodies. Develops the concepts of force and acceleration, work, energy, impulse, momentum, impact, and vibration. Utilizes theory and methodology developed in the solution of practical engineering problems. Lab access fee of \$35 for computers applies.

ENGR 2140

Mechanics of Materials

3:3:0

Fall, Spring

* Prerequisite(s): ENGR 2010 and PHYS 2210

Studies behavior of materials under axial, torsional, flexural, transverse shear and combined loading conditions. Analyzes nature of stress and strain for ductile and brittle materials, stress and strain diagrams, stress concentration, and failure of materials. Includes analysis of repeated and dynamic loading, and basic design techniques related to above topics. Lab access fee of \$35 for computers applies.

ENGR 2160

Introduction to Materials Science and Engineering

3:3:0

Fall, Spring

* Prerequisite(s): CHEM 1210

Introduces students to properties of materials from macro and micro point of view. Includes failure analysis of materials, altering properties of materials, and fracture mechanics. Introduces properties of solid materials and their behavior as applied to engineering. Lab access fee of \$35 applies.

ENGR 2300

Engineering Thermodynamics

3:3:0

Fall

* Prerequisite(s): MATH 1220, PHYS 2210

Covers static pressure, phase diagrams, equations of state, and mass balance. Studies laws of thermodynamics and their application in engineering problem solving. Includes analysis of open and closed systems, steady state, and unsteady flow problems. Studies heat engine, refrigeration, and other important thermodynamic cycles. Discusses the concept of Entropy and Entropy balance. Lab access fee of \$35 applies.

ENGR 2450

Computational Methods for Engineering Analysis

3:3:0

Fall, Spring

* Prerequisite(s): ENGR 1030

Discusses computational and symbolic methods for the solution of complex engineering problems. Discusses computer representation of numbers and algorithm error analysis. Covers the solution of algebraic and differential equations. Includes the use of modern software tools. Lab access fee of \$35 for computers applies.

ENGR 295R

Special Topics

1 to 3:1 to 3:0

On Sufficient Demand

* Prerequisite(s): Permission of Department Chair

Presents various engineering topics. Examines current technology, techniques, processes and equipment. Includes oral and written reports. May be repeated for a maximum of 3 credits toward graduation.

Environmental Studies (ENST)

ENST 3000

Introduction to Environmental Studies

3:3:0 **Fall**

* Prerequisite(s): University Advanced Standing

Explores the complex relationships of culture, technology, and nature within an interdisciplinary framework of the natural sciences, social sciences, business, and humanities. Addresses the integration of humanity and nature in the age of globalization.

ENST 3520 (Cross-listed with: SOC 3520)

Environmental Sociology

3:3:0 **On Sufficient Demand**

* Prerequisite(s): SOC 1010 and ENGL 2010 or ENGL 2020 with a C+ grade or higher

Explores in detail several different approaches to understanding the social causes of and solutions to environmental degradation. Discusses the development of a wide variety of theory-based critiques of various social institutions (e.g., economic, political, religious) and how these institutions' values can create and perpetuate unsustainable practices.

Entrepreneurship (ENTR)

ENTR 2500

Creativity and Entrepreneurial Thinking

3:3:0

Introduces the concepts of innovation and entrepreneurial creativity. Draws upon the inspired thinking and entrepreneurial pursuits of leaders in a variety of disciplines in order to understand the process of innovation and appreciate the role of creativity in making innovation possible. Includes topics such as the customer/problem/solution framework, design thinking, prototyping, intellectual property, creative idea development, lead user research methodology, peer feedback, new venture financing, and the lean start-up.

ENTR 3170

Entrepreneurship

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Provides an overview of the process of entrepreneurship with focus on the role of the entrepreneur in identifying, evaluating and developing opportunities. Considers the application of knowledge of the technical, market, financial and human aspects of a business as they relate to the start-up and development of business opportunities. Lab access fee of \$32 for computers applies.

ENTR 3180

Small Business Development

3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Provides a practical and theoretical foundation for managing small and medium sized enterprises with an emphasis on identifying, evaluating and developing opportunities for growth. Covers the basic elements of the business focusing on best practices in the technical, market, financial, and human resource aspects of existing small business as well as the interaction between these elements. Covers legal aspects of operating a business.

ENTR 3190

Early-stage Financing

3:3:0 **Fall**

* Prerequisite(s): University Advanced Standing

Provides non-business students an overview of financial modeling for entrepreneurship and small business, as well as the sources and processes involved in financing new ventures. Course teaches financial management, proforma financial statements, cash flow, bootstrapping, and debt and equity financing in an entrepreneurial environment.

ENTR 3220 (Cross-listed with: LEGL 3000)

Entrepreneurship Law

3:3:0 **Fall**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

For entrepreneurship students and others desiring a to start a business. Presents current U.S. legal framework as they concern start-ups and new businesses. Topics include the American legal system, constitutional law, statutory law, common law, and administrative law and alternatives to courts. Discusses crimes, torts, negligence, contracts, negotiable instruments, and contractual relationships.

ENTR 4200

Technology-based Opportunity Identification

3:3:0 **Fall, Spring**

* Prerequisite(s): ENTR 3170 and University Advanced Standing

Utilizes the identification and evaluation of business opportunities in start-up or existing business organizations. Covers commercialization of technology based opportunities, the interface between the application of technologies and market needs, with a strong emphasis on financial viability. Covers all areas of business operations. Lab access fee of \$32 for computers applies.

ENTR 4210

Career Development for Entrepreneurs

3:3:0 **Spring**

* Prerequisite(s): ENTR 3170 and University Advanced Standing

Deals with the personal and interpersonal development of entrepreneurs and other business professionals. Addresses issues and provides specific guidance in such areas as business and personal financial strategies, business and family interpersonal relationships, networking and human resource management strategies, and professional business- and self-image.

ENTR 4300

Strategic Innovation

3:3:0 **Spring**

* Prerequisite(s): (ENTR 4200 or ENTR 3170), Matriculation into the Woodbury School of Business, and University Advanced Standing

Focuses on developing every element needed to create an actionable business plan, with a special emphasis on business model generation, marketing, and finance. Emphasizes writing a comprehensive business plan and should be able to competently manage a small business or start their own with a minimum risk of failure. May be delivered hot bunk. May be delivered hybrid. Lab access fee of \$32 for computers applies.

ENTR 4400

New Venture Financing

3:3:0 **Spring**

* Prerequisite(s): FIN 3100 and Matriculation into the Woodbury School of Business and University Advanced Standing.

Covers advanced concepts and skills in entrepreneurship/small business management. Emphasizes how new and emerging companies are financed. Applies functional tools to case situations. Lab access fee of \$32 for computers applies.

ENTR 4450

Enterprise Formation

3:3:0 **Spring**

* Prerequisite(s): (ENTR 4200 or ENTR 3170) and Matriculation into the Woodbury School of Business and University Advanced Standing.

Provides an integrated, engaged learning opportunity in entrepreneurship through the development of a business opportunity. Focuses on creating and managing the formation of a business enterprise from the formation of a legal entity to launching a product of service and creating a financial model. Emphasizes documenting the process in a business model and/or a complete business plan.

ENTR 4455

New Venture Consulting

3:3:0 **Fall**

* Prerequisite(s): ENTR 3170, matriculation into the Woodbury School of Business Bachelor of Science in Entrepreneurship program, and University Advanced Standing

Provides an engaged learning opportunity for business students interested in learning how small- and medium-sized businesses work by consulting with community-based entrepreneurs and assisting them with the identification, evaluation, and/or development of their business opportunities. Includes projects that cover and examine all functional areas of business and the interaction between them. Covers consulting processes and strategies as well as provide tools and techniques for developing business models and assessing opportunities.

ENTR 493R

Entrepreneurship Lecture Series

1:1:0

* Prerequisite(s): University Advanced Standing

Presents lectures by guest speakers on current entrepreneurship issues and topics. Speakers and topics vary each semester. May apply a maximum of 3 credits toward graduation. Lab access fee of \$32 for computers applies.

Environmental Management (ENVT)

ENVT 1110 PP Introduction to Environmental Management 3:3:0 Fall, Spring, Summer

Surveys environmental issues and the impact of people on the environment. Covers water, air, and soil pollution. Discusses pollution prevention and remediation methods. For majors and any who have an interest in environmental issues.

ENVT 1200 Fall Environmental Worker Safety 3:3:0

Discusses safety laws, training requirements, and the use of personal protective equipment. Covers management of a safety program and development of a safety culture.

ENVT 1210 Fall Introduction to Water Reclamation 3:3:0

Covers the basic processes used to treat wastewater including primary treatment, biological treatment, and chemical treatment processes. Offers excellent preparation for the state license exam.

ENVT 1270 On Sufficient Demand Environmental Microbiology 3:3:0 * Prerequisite(s): MICR 2060 recommended

For water managers, public health workers, and environmental managers. Discusses the role microorganisms in water treatment, wastewater treatment, agriculture, environmental change, and others.

ENVT 1300 Spring Environmental Lab and Sampling 3:2:3

Studies basic laboratory techniques used by labs working on environmental projects. Covers safety, pH, dissolved oxygen, BOD, turbidity, organics, and others. Includes opportunities for undergraduate research. Course Lab fee of \$38 for supplies/materials/lab applies.

ENVT 1360 Spring Introduction to Water Treatment 3:3:0

Covers coagulation, sedimentation, filtration, water sources, sampling, disinfection, and regulations. Introduces the equipment used to treat water. Discusses the prevention of disease through effective treatment.

ENVT 1510 Spring Hazardous Materials Emergency Response 3:3:0

Meets the requirements for the OSHA 40 hour training. Includes personal protection, identifying hazardous materials, spill control, and incident management. Completers may obtain OSHA certification for handling hazardous materials. Course fee of \$28 for materials applies.

ENVT 2560 Fall, Spring Environmental Health 3:3:0 * Prerequisite(s): BIOL 1010 and CHEM 1110 recommended

Presents how environmental protection and proper sanitation can protect the public. Covers control of infectious and noninfectious diseases, safe water supplies, housing safety, radiation hazards, and air pollution.

ENVT 2600 On Sufficient Demand Skills for Humanitarian Projects 3:3:0

For students interested in participating in humanitarian projects. Covers water supplies, adobe stoves, drip irrigation systems, photoelectric lighting, and rules for safety in unfamiliar surroundings.

ENVT 2710 Fall, Spring Environmental Careers 1:1:0

For all students interested in environmental careers. Explores the career opportunities in environmental areas. Covers resumes, letters of inquiry, networking, and other methods of job seeking.

ENVT 2730 Fall Introduction to Soils 4:3:2 * Prerequisite(s): ENGL 1010

An introductory course for majors and non-majors. Covers basic topics such as soil classification, soil-water relations, fertility, soil strength, and soil conservation. Offers important background information for those involved in pollution prevention and remediation, environmental monitoring, and home gardening.

ENVT 282R Fall, Spring, Summer Environmental Internship 1 to 5:0:5 to 25 * Prerequisite(s): Instructor permission

Allows students practical experience working at an environmentally related job. May be repeated for a maximum of five credits toward graduation. May be graded credit/no credit.

ENVT 3010 Fall Environmental Toxicology 3:3:0 * Prerequisite(s): BIOL 1010 and CHEM 1110 recommended

For environmental managers and safety managers. Discusses safe levels of exposure, safe industrial practices and regulations. Reviews standards for toxic substances. Increases awareness of toxins commonly found on job sites.

ENVT 3280 Spring Environmental Law 3:3:0 * Prerequisite(s): ENGL 1010 and ENGL 2020 recommended

Covers the Clean Water Act, the Safe Drinking Water Act, and the Clean Air Act. Reviews the Toxic Substances Control Act, the Resource Conservation and Recovery Act, the Superfund law, DOT regulations, and OSHA regulations.

ENVT 3290 On Sufficient Demand Environmental Permits and Reports 3:3:0 * Prerequisite(s): ENGL 1010 and ENGL 2020 recommended

For students interested in becoming environmental managers. Covers the permits and reports that are required by the EPA, OSHA, state and local agencies that relate to air, water, and hazardous materials. Includes the preparation of sample permit applications and monthly operational reports.

ENVT 3320 On Sufficient Demand Hydraulics of Water 3:3:0 * Prerequisite(s): MAT 1010 and University Advanced Standing

Prepares students to analyze the flow of water. Includes the continuity equation, Hazen-Williams formula, and the Bernoulli Theorem. Completers will be better able to interact with engineers and operate water equipment in a professional manner.

ENVT 3330 Fall Water Resources Management 3:3:0 * Prerequisite(s): University Advanced Standing

Examines the broad issues that affect water quality and supply. Covers watershed management, limnology, stormwater management, and wetlands. Discusses the biological and physical processes that occur and the legal constraints that affect management decisions.

ENVT 3530 On Sufficient Demand Environmental Management Systems 3:3:0 * Prerequisite(s): ENGL 1010 and ENGL 2020 recommended

For those interested in the interaction between industry and the environment. Covers the systems and organization necessary to effectively manage environmental issues. Discusses the ISO 14000 standard and its effect upon management practices.

ENVT 3550 On Sufficient Demand Site Investigation 3:3:0 * Prerequisite(s): University Advanced Standing; CHEM 1110 recommended

Covers the investigation and preliminary cleanup of a contaminated site. Includes planning, training, site characterization, sampling, and site control. Completers should have a basic understanding of the process used to remediate an environmentally damaged site.

ENVT 3600 On Sufficient Demand Appropriate Technology and Sustainable Development for the Developing World 3:3:0 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Reviews the origins of poverty and the current conditions of people in developing countries. Offers development solutions being pursued around the world. Empowers students to play an active role in international poverty reduction by introducing international development and its challenges. Teaches students how to determine appropriate technologies based on design, physical, and social considerations.

ENVT 3630
Introduction to Geographic Information Systems
4:3:2 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing
 Introduces the operation of Geographic Information Systems (GIS). Focuses on GIS software and basic theory of geographic information science. Offers valuable preparation for careers in geography, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Lab access fee of \$30 for computers applies

ENVT 3700
Current Topics in Environmental Management
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing; ENVT 1110 recommended
 Studies local environmental issues, new technologies, and the challenges faced by environmental managers. Issues discussed will vary with the semester. Prepares students for a thoughtful discussion of environmental issues.

ENVT 3750
Land Use Planning
3:3:0 **Spring**
 * Prerequisite(s): University Advanced Standing; ENVT 3280 recommended
 Covers key issues in land use planning and how they affect the environment. Includes multiple use concepts, focused uses, zoning, mapping, and the political processes used in planning. Discusses the importance of strategic planning and public relations.

ENVT 3770
Natural Resources Management
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing; BIOL 1010 recommended
 For students in the Environmental Management program and others interested in natural resource issues. Introduces the management and conservation of natural resources. Discusses forestry, range management, wildlife management, and outdoor recreation.

ENVT 3790
Hydrology I
4:3:3 **Fall**
 * Prerequisite(s): (MATH 1050 or MATH 1055), GEO 1010 and GEO 1015, and University Advanced Standing
 Teaches how to solve textbook problems by developing skills in mathematics and understanding of hydrology. Uses hydrology to solve the real problems of real people. Requires that each student carry out a service learning project in the areas of water development, water conservation or water quality.

ENVT 3800 (Cross-listed with: CHEM 3800, PHYS 3800)
Energy Use on Earth
3:3:0 **Fall**
 * Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and (MATH 1050 or MATH 1055) and University Advanced Standing
 Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and end use in all sectors of our society, including transportation, residential living, and industry. Examines the impacts of our energy consumption on the environment and prospects for alternative energy sources. Intended for science majors interested in energy use in society or in an energy related career, and for students in other majors who feel that a technical understanding of energy use will help them to understand and mitigate its impact in our society.

ENVT 3850
Environmental Policy
3:3:0 **Fall**
 * Prerequisite(s): ENVT 1110 and ENVT 3280 (recommended)
 For upper-division students with an interest in environmental policy. Discusses the process by which policies are made and the factors that influence policy formation. Includes political factors, economics, international issues, public awareness and others.

ENVT 4790
Hydrology II
4:3:3 **Spring**
 * Prerequisite(s): ENVT 3790 and University Advanced Standing
 Continuation of ENVT 3790 with an emphasis on contaminant hydrology and computer modeling. Requires students to prepare a case study in the area of contaminant hydrology. Requires that each student carry out a service learning project in the areas of water development, water conservation or water quality.

ENVT 482R (Cross-listed with: GEO 482R)
Geologic Environmental Internship
1 to 3:0:5 to 15 **Fall, Spring, Summer**
 * Prerequisite(s): GEO 1010 or ENVT 1110; 12 credit hours of any GEO, GEOG, or ENVT courses; declared major in any Earth Science program and University Advanced Standing
 Engages students in supervised geologic or environmental work in a professional setting. Requires approval by the Chair of the Department of Earth Science. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation. May be graded Credit/No Credit.

ENVT 4890
Surface Water Hydrology
4:3:3 **On Sufficient Demand**
 * Prerequisite(s): ENVT 3790 and University Advanced Standing
 Strengthens problem-solving skills in the area of surface water hydrology. Major topics include drainage networks, open-channel hydraulics, theory of sediment transport, and statistical hydrology. Provides the opportunity to contribute to ongoing departmental research in surface water hydrology.

ENVT 495R
Special Projects in Environmental Management
1 to 3:0:3 to 9 **Fall, Spring, Summer**
 * Prerequisite(s): Instructor Permission and University Advanced Standing
 Allows students to pursue undergraduate research projects. Includes instructor directed practical research. Students will prepare a report of their findings. May be repeated for a maximum of 6 credits toward graduation.

Emergency Services Aircraft Rescue Firefighting (ESAF)

ESAF 2100
Airport Firefighter
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ESFF 250A and 250B) or Firefighter II Certification
 Explores the theories and fundamentals associated with airport rescue fire fighting. Addresses safety, operations and agents associated with aircraft rescue and firefighting procedures. Provides an overview of communications, apparatus, tools and equipment specific to the aerospace emergency service delivery.

ESAF 2110
Aircraft Related Mass Casualty Incidents
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ESFF 250A and 250B) or Firefighter II Certification
 Involves the planning, response, mitigation and management of a mass casualty incident resulting from a crashed aircraft. Includes issues relating to medical treatment, triage and transportation. Examines how the command structure functions as well as how operations personnel work on the scene of mass casualty incident.

ESAF 2120
Aircraft Mishaps
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ESFF 250A and 250B) or Firefighter II Certification
 Teaches the learner how to locate and use past aircraft accident and mishap data from various government agencies in order to develop relevant lesson plans and training courses for emergency responders. Learning how to research this information will strengthen emergency service agencies involved in aircraft rescue firefighting by giving them the tools and knowledge to develop relevant guidelines, protocols, procedures, and training evolutions based on current mishaps and findings.

ESAF 2130
Aviation Terrorism Response
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ESFF 250A and 250B) or Firefighter II Certification
 Deals with the threats associated with terrorism and the aviation industry as they relate to the emergency service response. Examines past acts of terror along with present and future threats and their connection to aerospace emergency services planning and response. Identifies various aspects of aviation security and control in correlation to the emergency responders' responsibilities.

Course Descriptions

ESAF 2140

Airport Operations for the Emergency Responder

3:3:0 On Sufficient Demand

* Prerequisite(s): (ESFF 250A and 250B) or Firefighter II Certification

Offers responders an understanding of ground operations, communications, layout, movements and functions in order to operate effectively within the boundaries of an airport. Discusses the complex, unfamiliar setting responders face associated with daily operations of an airport.

Emergency Services Emergency Care (ESEC)

ESEC 1140

Emergency Medical Technician Basic

9:7:6 On Sufficient Demand

For first semester Fire Science students. Prepares students for certification as an Emergency Medical Technician-Basic through the Utah Bureau of EMS. Includes CPR, automatic defibrillation, patient assessment and treatment, legal issues, airway support, medical and trauma emergencies, emergency childbirth, pediatric emergencies and patient movement/transport. Course Lec Fee of \$229 applies.

ESEC 114A

Emergency Medical Technician-Part I

3:3:0 Fall, Spring, Summer

* Corequisite(s): ESEC 114B and ESEC 114C

Applies fundamental knowledge of the EMS system, safety and well-being of the EMT, medical and legal and ethical issues to the provision of emergency care. Prepares students for certification as an Emergency Medical Technician-Basic through the Utah Bureau of EMS. First of three courses required for EMT- Basic certification. May be delivered online.

ESEC 114B

Emergency Medical Technician-Part II

4:4:0 Fall, Spring, Summer

* Corequisite(s): ESEC 114A and ESEC 114C

Provides background information and knowledge about EMT kinesthetic skills, including medical assessments, trauma assessment, pharmacology, special patient populations, and EMS operations.

ESEC 114C

Emergency Medical Technician-Part III

2:0:6 Fall, Spring, Summer

* Corequisite(s): ESEC 114A and ESEC 114B

Demonstrates mastery of kinesthetic skills, including medical assessments, trauma assessment, pharmacology, special patient populations, and EMS operations. Course Lab fee of \$71 for supplies applies. Course fee of \$229 for FIDAP study tools applies.

ESEC 1150

EMT Refresher Level I

2:1:2 On Sufficient Demand

* Prerequisite(s): ESEC 1140 OR (ESEC 114A and ESEC 114B and ESEC 114C)

Provides in-service refresher information to maintain EMT Level I certification based on the D.O.T. requirements for emergency medical technicians. Focuses on required EMT skill mastery. Course fee of \$50 for materials, equipment, state services & testing applies.

ESEC 3060

Emergency Medical Technician-Advanced

9:7:6 Fall, Spring

* Prerequisite(s): EMT Level Certification and University Advanced Standing

Prepares students for certification as an Emergency Medical Technician-Advanced through the Utah Bureau of EMS. Includes Life span development, advanced airway management, intravenous access, medication administration, cardiac rhythm interpretation and other advanced medical skills. Course Lab fee of \$62 for supplies applies. Course fee of \$168 for certification materials applies.

ESEC 3110

Paramedic I

5:5:0 Fall, Spring

* Prerequisite(s): EMT-Basic Certification for one-year and University Advanced Standing; Departmental approval or completion of the following courses with a grade of C- or higher: ZOOL 1090 or higher, ENGH 1000 or higher, MAT 0990 or higher or ESFO 1350
* Corequisite(s): ESEC 3120, ESEC 3130, and ESEC 3140

Introduces the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in EMS communication, medical and legal considerations and documentation. Includes anatomy and physiology of the human body as it applies to emergency care. Discusses proper sterile technique, scene evaluations, and patient assessments. Covers acid/base, fluid and electrolytes and fluid resuscitation, patient assessment and emergency treatment of the respiratory and abdominal systems. Requires individual written research projects with a review of literature pertaining to current coursework. Course fee of \$369 for FIDAP study tools applies.

ESEC 3120

Paramedic I Lab

3:0:9 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Corequisite(s): ESEC 3110, ESEC 3130, and ESEC 3140

Designed to allow hands-on practice and evaluation of the following skills: IV therapy, IO infusions, IM injections, SQ injections, oral and nasal intubation, thoracotomy, cricothyrotomy, defibrillation, transcutaneous pacing, cardioversion, medication delivery, and patient assessment. Completers should be qualified to progress to the second semester program. Course fee of \$103 for materials applies.

ESEC 3130

Paramedic II

7:6:3 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3140

Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in pharmacology, cardiac rhythm and monitoring, ACLS, patient assessment and emergency treatment for the cardiac system, central nervous system and musculo-skeletal system. Includes mechanism of injury, burns, and the assessment and treatment of trauma patients. Requires individual written research projects with a review of literature pertaining to current coursework. Course Lab fee of \$50 for materials/supplies applies.

ESEC 3140

Paramedic III

4:4:0 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Corequisite(s): ESEC 3110, ESEC 3120, and ESEC 3130

Discusses the Emergency Medical Services system and the role of the paramedic. Covers pre-hospital instruction for the care of the sick and injured including lectures in diabetes, alcoholism, overdose and ingestion, and communicable diseases. Includes pediatrics (PALS), obstetrics, childbirth, care of the neonate, geriatrics, incident command system (ICS), interpersonal skills, and critical incident stress. Requirements also include individual written research projects with a review of literature pertaining to current coursework. Course Lab fee of \$72 for materials/supplies applies.

ESEC 4110

Paramedic IV

6:5:3 Spring, Summer

* Prerequisite(s): ESEC 3110, ESEC 3120, ESEC 3130, ESEC 3140, and University Advanced Standing

* Corequisite(s): ESEC 4120

Discusses the Emergency Medical Services (EMS) system and the role of the paramedic within this system. Teaches the terms, definitions, concepts, pre-hospital care life, trauma life support, and skills of a Paramedic through lecture and hands-on experience. Includes landing zones and safety, high angle rescue, Life-Pack 10, street smarts, death, dying and grieving, handling rape and domestic violence, substance abuse, EVO training, auto extrication, and forensic medicine. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMT) for certification. Course fee of \$113 for disposable/durable supplies applies.

ESEC 4120

Paramedic Clinical Concepts

6:0:18 Spring, Summer

* Prerequisite(s): University Advanced Standing

* Corequisite(s): ESEC 4110

Includes field-based experiences with Paramedic rescue, hospital emergency department, pediatric emergency department, intensive care units, aeromedical service, labor and delivery, and operating room to provide field experience. Requires individual written reports reflecting current trends in EMS and demonstration of proficiency in professional patient care reports. Successful completers should be able to meet the requirements listed in the National Standard D.O.T. Paramedic curriculum and the qualifications defined in the Utah Paramedic Training Program Accreditation Standards. Additionally, students completing the required coursework will be recommended for testing with the National Registry of Emergency Medical Technicians Paramedic (NREMT-P) for certification. Course fee of \$75 for materials and practical experience applies.

ESEC 4150

Critical Care Emergency Medical Transport Program

6:4:6 On Sufficient Demand

* Prerequisite(s): Department Approval and University Advanced Standing

Brings paramedics and nurses together in an effort to bridge the gap between pre-hospital and hospital care. Prepares specialized care providers to have an understanding of both aspects of patient care, and to use that understanding to provide a higher level of care to critical patients during transport. Designed to prepare paramedics and nurses to function as members of a critical care transport team. Offers an understanding of the special needs of critical patients during transport, become familiar with the purpose and mechanisms of hospital procedures and equipment, and develop the skills to maintain the stability of hospital equipment and procedures during transport.

Emergency Services (ES)

ES 1150

SS

Community Emergency Preparedness

3:3:0 Fall, Spring, Summer

Examines emergency and crisis preparedness for the individual, family, and community as practiced at the state, national and international levels. Explores prevention and disaster recovery strategies against all hazards threats to home, neighborhood and community whether natural or human caused. May be delivered online. Course fee of \$51 for equipment/supplies applies.

ES 1160

Responders Role in Emergencies and Disasters

3:3:0 On Sufficient Demand

* Prerequisite(s) or Corequisite(s): ENGL 1010 or department permission

Prepares emergency services students to respond effectively in both day-to-day emergency circumstances as well as extreme disasters. Examines the theory and skills to effectively handle emergency operations and deal with people in the context of emergencies. This course will be offered as a hybrid or online course.

ES 1170

Citizen Role in Emergencies and Disasters

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 1010 recommended

Designed for students of emergency management and volunteer private agencies. Discusses disaster preparedness, planning, and mitigation. Extends the discussion of the public role in emergencies and disasters to disaster response and recovery. Describes the variety of actions taken by individuals, private and voluntary organizations, first responders, and government agencies in response to a disaster and to assist in recovery.

ES 2210

Community Mitigation Response and Recovery

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL1010 recommended

Provides an introduction to emergency management for community members, emergency service volunteers, and future disaster relief workers. Prepares them with the knowledge and the skills to allow them to work in emergency services in government or non-profit agencies. Introduces emergency management principles, doctrines and authorities, emergency management functions and capabilities, and the integrated emergency management system. Addresses the coordination of various systems, networks, and agreements among various governmental and other organizations under the National Incident Management System (NIMS).

ES 2220

Resiliency and Vulnerability in Crises

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 1010 recommended

Expands the knowledge of disasters so that students of emergency management, volunteers, and community members understand the nature of multiple hazards, both man-made and natural, and are aware of their impact on vulnerable populations. Presents risk management tools to assist in mitigating, planning and preparing for disasters.

ES 2230

Non-profit Organizations and Volunteerism

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL1010 recommended

Improves participant abilities to deal with a broad range of issues in the management of volunteers. Covers publicity and recruitment, skill development and maintenance, and motivation strategies to promote continued involvement and quality performance. Addresses the planning and operations of an effective donations management system, and explores the coordination of state and local government and representatives of Voluntary Organizations Active in Disaster (VOAD) when working with undesignated and spontaneous volunteers during a disaster.

ES 290R

Special Topics in Emergency Services

1 to 3:1 to 3:0 On Sufficient Demand

Provides students the opportunity to study special topics in emergency services. Requires students to identify emergency service topics and evaluate their application to emergency services. Calls for the creation of a research paper, presentation, academic report, or a significant project. May be repeated for a maximum of 6 credits toward graduation.

Emergency Services Firefighting (ESFF)

ESFF 1000

Introduction to Emergency Services and Ability Testing

4:4:0 Fall, Spring, Summer

Explores career opportunities and job requirements of fire and rescue emergency services. Discusses the various duties within emergency services, including structural fire fighting, wildland fire fighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use. Course fee of \$30 for computers applies.

ESFF 100A

Introduction to Emergency Services

3:3:0 On Sufficient Demand

Explores career opportunities and job requirements of fire and rescue emergencies. Discusses the various duties within emergency services, including structural fire fighting, wildland firefighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization and fire extinguisher use.

ESFF 100B

Firefighter Physical Ability Testing

1:1:0 On Sufficient Demand

Provides aspiring firefighters with information needed to pass various physical ability tests. Explores the background and development of tests, including the role the Candidate Physical Ability Test plays in the Wellness Fitness Initiative. Outlines principles of designing and implementing an effective training program.

ESFF 1010

Firefighting Fundamentals I

3:3:0 On Sufficient Demand

* Corequisite(s): ESFF 1210

Discusses the history and background of the fire service. Teaches terms, definitions, and concepts of NFPA 1001 Professional Qualifications for Firefighters Level I. Includes fire behavior, ventilation rescue, forcible entry, ladders, ropes and knots, self-contained breathing apparatus, firestreams, fire hose, salvage, overhaul, fire suppression techniques, communications, fire sprinklers, and fire inspection. Course fee of \$20 for state services & testing applies.

Course Descriptions

ESFF 1120

Principles of Fire and Emergency Services Safety and Survival

3:3:0 On Sufficient Demand

Introduces the basic principles and history related to the national firefighter life safety initiatives. Focuses on the need for cultural and behavior change throughout the emergency services.

ESFF 1210

Firefighting Skills I

4:0:12 On Sufficient Demand

* Corequisite(s): ESFF 1010

Teaches basic manipulative skills according to NFPA 1001 Firefighter Professional Standards, Level 1. Includes using forcible entry tools, using self-contained breathing apparatus, tying knots and using ropes, handling salvage covers, utilizing hose nozzles and appliances, manipulating ladders, ventilation practices, search for and removal of victims, sprinkler operations, initiating emergency response, and safety procedures. Students are required to furnish their own approved firefighter safety clothing as follows: gloves, boots, helmet, and hood. Course fee of \$95 for specialized clothing and materials applies.

ESFF 1220

Firefighting Fundamentals and Skills II

3:1:6 On Sufficient Demand

* Prerequisite(s): ESFF 1010 or Departmental approval

Teaches intermediate skills as described in NFPA 1001 Level II. Builds upon the basic skills taught in ESFF 1010 and introduces new skills and knowledge in water supplies, portable extinguisher practices, inspection techniques, and rescue operations. Course fee of \$100 for specialized clothing and materials applies.

ESFF 1340

Hazardous Materials First Responder

3:3:0 On Sufficient Demand

* Prerequisite(s) or Corequisite(s): ESFF 1000 or department approval

For first year Fire Science students. Addresses the Hazardous Materials First Responder requirements of NFPA 472 and 29 CFR 1910.120. Includes definitions and classes of hazardous materials; physiological and toxicological considerations; DOT, UN and NFPA 704 labeling and placarding systems; container types and container identification. Completers should be able to conduct an incident size-up using the North American Emergency Response Guide, use personal protective equipment and conduct a decontamination procedure. Completers should be prepared to certify at both the Hazardous Materials Awareness and Operations levels. Course fee of \$119 for materials, state services & testing applies.

ESFF 1360

Recruit Candidate Academy Internship

3:0:15 On Sufficient Demand

* Prerequisite(s): ESFF 1330, ESFF 1340, instructor's recommendation, and internship coordinator's approval.

For students who have completed the Recruit Candidate Academy courses and desire an opportunity to apply the knowledge, skills, and abilities learned in a realistic environment. Student interns will experience the fire service as a fully integrated member of a fire company in a career fire department. Additionally, the internship will emphasize the student's work ethic, attitude, and ability to adapt to highly stressful and sometimes dangerous situations. May be graded credit/no credit. Course lab fee of \$200 for specialized clothing and materials applies.

ESFF 1370

Fundamentals of Apparatus Operation

3:3:0 On Sufficient Demand

Provides basic information on driving and operating a variety of fire apparatus by meeting the knowledge requirements as listed in NFPA 1000 Professional Qualifications for Fire Apparatus Driver Operator. Includes fire pump operation, emergency driving techniques, regulations and laws, fire ground operations, apparatus maintenance and testing procedures.

ESFF 1380

Fire Apparatus Skill

3:0:9 On Sufficient Demand

* Prerequisite(s): ESFF 1220 or ESFF 1330

Teaches manipulative skills as described in Firefighter Professional Qualification Standard NFPA 1002. Includes fire apparatus operation, defensive driving, emergency driving techniques, and equipment care and maintenance. Emphasizes hands-on lab activities. Course fee of \$55 for transportation, state services & testing applies.

ESFF 2100

Introduction to Emergency Services

3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 1010

Explores the aspiring and current emergency services learner's desire to serve and relates it to the theoretical constructs and characteristics of servant leadership. Discusses the roles and responsibilities of leadership/fellowship, internal and external, associated with the emergency services. Develops basic leadership/fellowship traits, based upon the theory of servant leadership.

ESFF 2410

Hazardous Materials Technician

Fundamentals

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1340

Teaches the knowledge requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Includes emergency response plans, classification of materials, ICS roles, personnel protective equipment needs, masks, containment and confinement concepts, decon requirements, termination concepts, toxicological and chemical terms and definitions.

ESFF 2420

Hazardous Materials Technician Skills

2:0:6 On Sufficient Demand

* Prerequisite(s): ESFF 2410

Presents the manipulative skill requirements of NFPA 471, 472, and CFR 1910.120 regulation for a Hazardous Materials Technician. Teaches handling simulated incidents, classifying materials, performing in ICS roles, using personnel protective equipment, containment and confinement operations, setting up and operating decon, diking, plugging, and patching operations. Course fee of \$55 for specialized clothing, state services & testing applies.

ESFF 2430

Hazardous Materials Chemistry

3:2:3 On Sufficient Demand

Presents in-depth chemical information for hazardous materials responders. Teaches basic knowledge of how to evaluate potential hazards and behaviors of hazardous materials. Provides the underlying reasons for chemical reactions of hazardous materials. Includes decision-making abilities, safe operations, and handling. Course fee of \$40 for specialized clothing, materials applies.

ESFF 250A

Firefighter Recruit Candidate Academy I

8:6:6 Fall, Spring

* Prerequisite(s): Matriculated into the AAS Emergency Services: Firefighter/Emergency Care Emphasis

Addresses the first part of the cognitive and psychomotor requirements of Firefighter I and Firefighter II certification. Includes basic firefighting topics and related skills, including fire behavior, building construction, personal protective equipment, tools, appliances, firefighter safety, forcible entry, and apparatus. Prepares students to certify at the Fire Fighter I and Fire Fighter II levels.

ESFF 250B

Firefighter Recruit Candidate Academy II

8:6:6 Fall, Spring

* Prerequisite(s): Matriculated into the AAS Emergency Services: Firefighter/Emergency Care Emphasis

Addresses the second part of the cognitive and psychomotor requirements of Firefighter I, Firefighter II, and Hazardous Materials Awareness and Operations certification. Includes basic firefighting topics and related skills. Addresses the Hazardous Materials First Responder requirements of NFPA 472 and 29 CFR 1910.120. Includes definitions, classes of hazardous materials, physiological and toxicological considerations, and labeling and placarding systems. Prepares students to certify at the Fire Fighter I, Fire Fighter II, and Hazardous Materials Awareness and Operations levels.

ESFF 2700

Technical Rescue Principles

3:2:3 On Sufficient Demand

For those with limited fire and emergency services training. Addresses the prerequisite knowledge and skills for technical rescue job performance. Applies the Incident Command System to the management of technical rescue operations, resources and hazards. Includes search and rescue techniques, victim care and extrication, and the use of ropes and rigging. Course fee of \$70 for equipment, materials applies.

ESFF 2710

Environmental Rescue

3:2:3 On Sufficient Demand

* Prerequisite(s): ESFF 1220

Includes analysis and simulation of problems such as wilderness search and rescue, still and swift water rescue, avalanche and mountain rescue. Discusses disaster planning and management as well as rescues from the work place and industrial settings. Course fee of \$70 for specialized clothing, materials, and transportation applies.

ESFF 2730

Rope Rescue

3:2:3 On Sufficient Demand

* Prerequisite(s): ESFF 1330 and ESFF 1340; or departmental approval

Designed to meet the rope rescue job performance requirements of NFPA 1006, Standard for Rescue Technician Professional Qualifications. Addresses various types and configurations of rope rescue systems. Includes compound mechanical advantage systems, rescuer suspension systems, high-angle and vertical victim rescue systems, construction and operation of highline systems, and ascent/ decent procedures. Course fee of \$70 for equipment, materials applies.

ESFF 281R

Emergency Services Internship

1 to 8:0:5 to 40 Fall, Spring, Summer

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experience, or instructor approval.

Designed for Emergency Services majors. Provides paid, on-the-job work experience. Work experience and the correlated class are coordinated by the Coordinator and director who must approve enrollment. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Gives experience in writing and completing individualized work objectives that improve present work performance. May be repeated for a maximum of 8 credits towards graduation. May be graded credit/no credit.

**Emergency Services
Fire Officer (ESFO)**

ESFO 1100

Fire Behavior and Combustion

3:3:0 On Sufficient Demand

Explores the theories and fundamentals of how and why fires start, spread and how they are controlled. Addresses the fire problem in America, background of research, and how to approach the study of fire. Provides an overview of various flames, smoldering, and spontaneous combustion.

ESFO 1110

Fire Prevention

3:3:0 On Sufficient Demand

Provides fundamental information regarding the history and philosophy of fire prevention. Introduces the organization and operation of a fire prevention bureau. Covers the use of fire codes, identification and correction of fire hazards. Discusses the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

ESFO 1350

Fire Protection Hydraulics and Water

Supply

3:3:0 On Sufficient Demand

Introduces basic mathematical operations, including fractions, decimals, percentages, measurements, statistics, graphs, formulas and equations. Completers should be able to apply mathematical skills in solving basic fire service hydraulic and water supply problems.

ESFO 2020

Incident Command

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Presents the basic principles of managing an emergency scene through the utilization of an incident command system for simple single unit, to complex multi unit response. Requires use of personnel, equipment, and additional resources to manage an incident by completing a size-up, analyze, develop and implement an action plan, maintain on scene accountability of personnel and resources by following IMS principles. Meets the incident command requirements for Fire Officer I, Fire Officer II, NFPA 1021, Presidential Directive #5, and NIMS compliance.

ESFO 2030

Fire Inspector I

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For Fire Science and Building Inspection Technology students. Addresses the principles of fire inspection and application of the International Fire Code. Topics include identification of fire hazards, fire prevention measures, inspection techniques, and pre-fire planning. Includes classroom discussion and actual inspections of both under-construction and occupied buildings. Successful completers should be prepared to attain Fire Inspector I certification. Course fee of \$80 for state services & testing, materials applies.

ESFO 2050

Fire Protection and Detection Systems

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Teaches students to become familiar with the various types of fire protection and detection systems. Explains how each type of system functions, where such systems are required by code and how the various systems are serviced and maintained. Course fee of \$17 for materials applies.

ESFO 2080

Building Construction for the Fire Services

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For second year Fire Science students. Explores components of building construction that relate to fire and life safety. Explains construction and design factors to be considered during fire inspections, pre-fire planning and fire fighting operations. Emphasis is placed on firefighter safety.

ESFO 2100

Fire Officer I Supervision and Leadership

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For second year Fire Science students and experienced firefighters. Addresses the NFPA requirements for Fire Officer I. Discusses human resource management, community and government relations, application of fire department policies, fire investigation procedures, emergency service delivery and safety considerations. Completers should be prepared to certify as Fire Officer I. Course fee of \$40 for state services & testing applies.

ESFO 2110

Fire Instructor I and II

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Teaches the NFPA 1041 requirements for Instructor I and II. Includes job factors that influence teaching, developing behavior objectives and lesson plans, organizing the learning environment, methods of instruction, training aids, and principles of testing and evaluations. Lab activities include classroom presentations, preparing audiovisuals, and developing objectives. Course fee of \$83 for state services & testing, materials applies.

ESFO 211A

Fire Service Instructor I

1:1:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

For second year Fire Science students. Addresses the knowledge and skills required to deliver a training lesson from a prepared outline and instructor's guide. Includes psychology of learning, instructional techniques, instructional media, evaluation techniques, and legal considerations. Completers should be prepared to instruct a fire service audience and certify as Fire Service Instructor I. Course fee of \$43 for state services & testing, materials applies.

ESFO 211B

Fire Service Instructor II

2:2:0 On Sufficient Demand

* Prerequisite(s): ESFO 211A or Departmental Permission

For those who have already completed ESFO 211A or attained Fire Service Instructor I certification. Explores job factors that influence teaching, developing behavior objectives and lesson plans, organizing the learning environment, methods of instruction, training aids, and principles of testing and evaluations. Completers should be able to prepare and conduct classroom presentations, prepare audiovisual materials and equipment, and be prepared to certify as Fire Service Instructor II. Course fee of \$40 for state services & testing applies.

Course Descriptions

ESFO 2200

Fire Officer II

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Addresses the administrative skills and abilities required for Fire Officer II certification. Includes occupational health and safety concepts, injury prevention, risk management, application of departmental policies and procedures, preparation of budget requests, preparation of news releases, and preparation and maintenance of departmental records and reports.

ESFO 2310

Fire Investigator I

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences

Presents basic requirements for fire investigators as found in NFPA 1033. Includes scene examination, documenting the scene, evidence collection and preservation, interviewing techniques, post incident investigation and presenting investigation findings.

ESFO 2320

Fire Investigator II

3:3:0 On Sufficient Demand

* Prerequisite(s): ESFO 2310 or Departmental Approval

Presents advanced skills for fire investigators. Explores all aspects of the investigative process, scene documentation, advance collection tools and evidence preservation, advanced investigative techniques, case preparation, presenting findings in a legal/court proceeding.

ESFO 2330

Public Fire Education I

2:2:0 On Sufficient Demand

* Prerequisite(s): ESFF 1000 or sufficient emergency services work experiences.

Teaches professional qualifications of NFPA 1035. Identifies fire risks and problems in a community. Teaches selecting, designing, and implementing fire prevention and education programs.

ESFO 2400

Fire Officer Work Experience

3:1:6 On Sufficient Demand

* Prerequisite(s): ESFO 2020 and ESFO 2200

Provides an opportunity for students to complete the Fire Officer II work place performance requirements of NFPA 1021, Standard for Fire Officer Professional Qualifications. Under the supervision of an experienced fire officer, requires meeting performance objectives in areas of human resource management, community relations, governmental relations, inspection procedures, investigation procedures, emergency service operations, emergency services planning and personnel safety procedures, through a non-paid work experience.

English as a Second Lang (ESL)

ESL 0100

Basic English Language Immersion

12:12:0 On Sufficient Demand

* Prerequisite(s): Department Approval

For beginning ESL students, with little or no previous English experience. Integrates essential language tools and skills-reading, writing, listening, speaking, and vocabulary-needed to perform basic communicative tasks. Emphasizes building a learning community within the classroom. Includes lecture, discussion, collaborative class work, and outside experience with native English speakers.

ESL 0810

Beginning Listening/Speaking Level I

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For beginning ESL students, with little or no previous English experience. Explores use of simple statements, questions, commands, and short conversations on familiar topics. Teaches students to interact successfully in survival English situations. Develops vocabulary on concrete, everyday topics. Familiarizes students with correct pronunciation of American English sounds. Includes weekly use of the ELL computer lab where beginning listening skills are emphasized and practiced. Focuses on communicative practice and authentic interaction with native speakers.

ESL 0820

Beginning Reading and Writing Level I

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For beginning ESL students, with little or no previous English experience. Teaches basic competence and fluency in reading and writing. Focuses on reading fluently with meaningful comprehension and natural vocabulary acquisition. Covers writing sentences and short paragraphs on familiar topics. Includes weekly use of the ELL computer lab to practice reading and writing skills.

ESL 0825

Beginning Vocabulary Level I

4:4:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For beginning ESL students, with little or no previous English experience. Teaches a 1000-word vocabulary necessary for English survival. Explores vocabulary in context around relevant themes, focusing on communicative practice.

ESL 0840

Beginning Grammar Level I

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Departmental Approval

For students whose native language is other than English with little or no English experience. Focuses on helping students recognize beginning grammar structures and correctly incorporate them into their speech and writing. Introduces correct word order, simple verb tenses and conjugations, helping verbs, prepositions, articles, question formation, negative sentences, and word forms.

ESL 0910

High-Beginning Listening/Speaking Level II

4:4:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

* Corequisite(s): ESL 0911

For students whose native language is other than English. Explores use of simple statements, questions, and commands on familiar topics. Develops vocabulary on concrete topics. Introduces students to short academic lectures and conversations. Introduces concepts of pronunciation, intonation, stress, and reductions. Includes weekly use of the ELL Language Lab where beginning listening skills are emphasized and practiced. Includes communicative practice with classmates and authentic language practice with native English speakers.

ESL 0911

High-Beginning Pronunciation Level II

1:1:0 Fall, Spring, Summer

* Prerequisite(s): Departmental Approval

* Corequisite(s): ESL 0910

For high-beginning ESL speakers with some previous English experience. Introduces phonetic alphabet for corresponding English alphabet sounds. Focuses on pronunciation of individual sounds along with how to produce naturally sounding syllables, words, and sentences through intonation, stress and linking.

ESL 0920

High-Beginning Reading Level II

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies comprehension of main ideas and details of short academic texts, examines literary themes and plots from simple novels, and develops basic interpersonal vocabulary as well as some academic vocabulary through context cues and English dictionary usage. Encourages reading for pleasure and for information. Introduces students to academic and job-related reading skills.

ESL 0930

High-Beginning Writing Level II

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For students whose native language is other than English. Introduces English writing conventions including pre-writing, idea development, organization, genre style, word choice, applied grammar usage, editing, and technical accuracy. Explains construction of simple and complex sentences into well-formed paragraphs. Includes weekly use of the ELL Computer Classroom where beginning writing skills are emphasized and practiced.

ESL 0940

High-Beginning Grammar Level II

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For students whose native language is other than English. Focuses on helping students recognize high-beginning grammar structures and correctly incorporate them into their speech and writing. Focuses on verb tenses, irregular and helping verbs, question formation, adverbs of frequency, pronouns, and articles.

ESL 1210**Low-Intermediate Listening/Speaking Level III****4:4:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

* Corequisite(s): ESL 1211

For students whose native language is other than English. Expands use of simple statements, questions, and commands on familiar topics to academic conversations and lectures. Develops vocabulary on concrete and abstract topics. Studies low-intermediate concepts of pronunciation, intonation, stress, and reductions. Includes weekly use of the ELL Language Lab where low-intermediate listening skills are emphasized and practiced.

ESL 1211**Low-Intermediate Pronunciation Level III****1:1:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

* Corequisite(s): ESL 1210

For low-intermediate ESL speakers with previous English experience. Introduces International Phonetic Alphabet symbols that correspond to American English alphabet sounds. Focuses on pronunciation of individual sounds along with how to pronounce naturally sounding syllables, words, and sentences through intonation, stress, and linking.

ESL 1220**Low-Intermediate Reading Level III****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies comprehension of main ideas and supporting details of low-intermediate texts and acquisition of vocabulary through context and utilizing American English dictionaries. Focuses on interpreting literary themes and analyzing academic and literary texts. Encourages reading for pleasure and for information.

ESL 1230**Low-Intermediate Writing Level III****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies low-intermediate English writing conventions including pre-writing, idea development, organization, word choice, and editing for organization and grammatical accuracy. Focuses on short academic writing tasks that culminate into a multi-paragraph essay. Includes weekly use of the ELL Computer Classroom where low-intermediate writing skills are emphasized and practiced.

ESL 1240**Low-Intermediate Grammar Level III****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies low-intermediate English grammar usage in written and verbal speech. Focuses on verb tenses, phrasal verbs, modals, question formation, pronouns, and sentence connectives.

ESL 1260**Intermediate Listening/Speaking Level IV****4:4:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

* Corequisite(s): ESL 1261

For students whose native language is other than English. Expands use of statements, questions, and commands on familiar topics to academic conversations and lectures. Develops vocabulary on concrete and abstract topics. Studies low to high intermediate concepts of pronunciation, intonation, stress, and reductions. Includes weekly use of the UVU Language Lab where intermediate listening skills are emphasized and practiced.

ESL 1261**Intermediate Pronunciation IV****1:1:0** **Fall, Spring, Summer**

* Prerequisite(s): Departmental Approval

* Corequisite(s): ESL 1260

For intermediate ESL speakers with previous English experience. Introduces International Phonetic Alphabet symbols that correspond to American English phonemes. Focuses on pronunciation of individual sounds along with how to pronounce naturally sounding syllables, words, and sentences through intonation, stress, and linking.

ESL 1270**Intermediate Reading Level IV****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies comprehension of main ideas and supporting details, acquisition of intermediate vocabulary through context and utilizing American English dictionaries, interpreting literary themes, and critically analyzing academic and literary texts. Encourages reading for pleasure and for information.

ESL 1280**Intermediate Writing Level IV****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies intermediate English writing conventions such as pre-writing, idea development, organization, word choice, and editing work for grammatical accuracy. Focuses on writing well written paragraphs that evolve into essays. Includes weekly use of the ELL computer lab where intermediate writing skills are emphasized and practiced.

ESL 1290**Intermediate Grammar Level IV****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies intermediate English grammar usage in written and verbal speech. Focuses on parts of speech, verb tenses, nouns, comparisons, modals, adjectives, adjective clauses, infinitives, and the passive construction.

ESL 1310**High-Intermediate Listening/Speaking Level V****4:4:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

* Corequisite(s): ESL 1311

For students whose native language is other than English. Explores listening strategies for academic news programs and academic lectures. Emphasizes active participation in academic and social conversations. Develops ability to give academic presentations. Studies high-intermediate concepts of pronunciation, intonation, stress, and reductions. Includes weekly use of the UVU Language Lab where high-intermediate listening skills are emphasized and practiced.

ESL 1311**High-Intermediate Pronunciation Level V****1:1:0** **Fall, Spring, Summer**

* Prerequisite(s): Departmental Approval

* Corequisite(s): ESL 1310

For high-intermediate ESL speakers with previous English experience. Introduces phonetic alphabet for corresponding English alphabet sounds. Focuses on pronunciation of individual sounds along with how to produce naturally sounding syllables, words, and sentences through intonation, stress, linking, and reductions.

ESL 1320**High-Intermediate Reading Level V****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies comprehension of main ideas and supporting details of academic texts, making inferences and expanding vocabulary through context and English dictionary usage. Encourages students to read for pleasure and increase fluency through extensive reading outside of class. Develops critical reading and thinking skills.

ESL 1330**High-Intermediate Writing Level V****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies high-intermediate English writing conventions including pre-writing techniques and idea development, organization of written papers according to genre expectations, and editing and revising work for grammatical accuracy. Focuses on writing 5+ paragraph essays, and letters or articles from 2-5 pages in length. Includes weekly use of the ELL computer lab where high-intermediate writing skills are emphasized and practiced.

ESL 1340**High-Intermediate Grammar Level V****5:5:0** **Fall, Spring, Summer**

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies high-intermediate English grammar usage in written and verbal speech. Focuses on higher level verb tenses and their related structures, use of nouns and adjective clauses, passive voice and definite/indefinite articles. Expands use of modal auxiliaries, conditionals, and verb complementation using gerunds and infinitives.

Course Descriptions

ESL 2110

Advanced Listening Speaking

4:4:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies advanced concepts of critical thinking and vocabulary. Provides opportunities for students to build confidence in public speaking. Emphasizes speaking and listening in advanced academic situations such as note-taking and participating in class discussions, debates, and presentations. Incorporates advanced concepts of pronunciation, stress, intonation, and linking. Includes weekly use of the UVU Language Lab where advanced listening skills are emphasized.

ESL 2111

Advanced Pronunciation

1:1:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

* Corequisite(s): ESL 2110

For high-intermediate ESL speakers with previous English experience. Reviews International Phonetic Alphabet for corresponding English alphabet sounds. Focuses on pronunciation of individual sounds along with how to produce naturally sounding syllables, words, and sentences through intonation, stress, rhythm, linking and reductions.

ESL 2120

Advanced Reading Vocabulary

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For international students whose native language is other than English. Using the English language, emphasizes developmental activities in finding stated main ideas and details, understanding inferred main ideas, skimming, scanning, recognizing patterns of organization and author's purpose, interpreting literature, and using advanced level vocabulary. Includes lectures, group discussions, lab activities, and multimedia. Satisfies AAS Humanities requirements.

ESL 2130

Advanced Composition

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For international students whose native language is other than English. Using the English language, emphasizes developmental activities in essay organization, outlining, essay writing, editing and punctuation, and research paper writing. Includes lectures, small and large group activities, peer editing, and lab activities. Satisfies AAS Humanities requirements. Satisfies AAS Humanities requirements.

ESL 2140

Advanced Grammar

5:5:0 Fall, Spring, Summer

* Prerequisite(s): Department Approval

For students whose native language is other than English. Studies advanced English usage, correct speech and writing forms and patterns related to tense, time, parts of speech, modifiers, clauses, phrases, conditionals, active/passive voice, and modals. Emphasizes grammatical fluency in English speech and writing. Satisfies AAS Humanities requirements.

ESL 2150

Academic Skills--TOEFL

5:5:0 Fall, Spring, Summer

* Prerequisite(s): ESL 1310, ESL 1320, ESL 1330, ESL 1340 and ESL Compass Test with a score of 81

Focuses on the integration of all four language skills. Prepares students to pass the TOEFL test. Provides ample opportunities to practice integrated speaking, reading, writing and listening tasks commonly encountered in academic settings.

ESL 2160

Aviation English--Advanced Listening and Speaking

3:3:0 Fall, Spring

* Prerequisite(s): Departmental Approval

Prepares non-native English speakers to achieve operational English language proficiency in radiotelephony communication within the field of Aviation Science. Focuses primarily on pilot-controller communication in the English language. Provides opportunities to improve speaking, pronunciation, and overall English fluency in both routine and non-routine procedures using standard aviation phraseology and plain language. Provides opportunities to improve listening and comprehension skills through authentic pilot-controller radio recordings and dialogues. Builds vocabulary in both standard phraseology and non-routine domains. Addresses communication skills in the language skill areas of pronunciation, grammatical structures, vocabulary, fluency, and comprehension.

Emergency Services Management (ESMG)

ESMG 310G

Introduction to Homeland Security

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Introduces student to global and intercultural issues regarding homeland security at the national, regional, state and local levels. Discusses the history of homeland security, including its political history, and evolution, particularly as it relates to terrorism. Addresses demands state and local authorities must meet when dealing with national programs and requirements which affect funding and operations on the state and local level during natural or man-made disasters and emergencies.

ESMG 3150

Principles of Management for the Emergency Services

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Examines critical skills used in the management of emergency services operations. Proposes possible applications of the skills using real-life examples. Emphasizes the development process and analytical skills necessary to assess problems in the workplace and select appropriate solutions.

ESMG 3200

Health and Safety Program Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Teaches development, management, and evaluation of departmental safety programs. Includes compilation of accident and injury data from local jurisdictions. Develops programs that target safety concerns identified from research. Students will develop a plan to track effectiveness of safety programs to reduce personal injuries and property damage resulting from accidents within their department.

ESMG 3250

Managing Emergency Medical Services

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Teaches action planning procedures for emergency incidents requiring multiple agency operations. Includes determining resources, assigning and placement of resources to mitigate incidents requiring multi-agency responses. Studies coordination of changing roles and responsibilities of fire service based EMS providers with the requirements set forth by local ordinances, state statutes, and federal laws. Presents personnel, resource management, and quality improvement techniques.

ESMG 3300

Master Planning for Public Emergency Services

3:3:0 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Prepares students for developing long-range plans, given current organization status and local resources, emphasizing the attainment of both organizational, and community needs. Teaches planning for growth and for major disasters. Integrates resources and budgets while mitigating the impacts on a community. Develops and evaluates projected training requirements.

ESMG 3350

Analytical Research Approaches to Public Emergency Services

3:3:0 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Explores basic research designs, the use of selective analytical tools, and common issues faced by public emergency services managers. Examines tools and techniques using research methods to facilitate the decision making process in public emergency services organizations.

ESMG 3400

Critical Infrastructure Protection

3:3:0 On Sufficient Demand

* Prerequisite(s): ESGM 310G and University Advanced Standing

Introduces critical infrastructure and key resources (CI/KR) and explores the interdependencies between government and private industry in sustaining and protecting critical infrastructure. Provides an overview of the elements and processes to develop and sustain successful critical infrastructure partnerships and to protect critical infrastructure and key resources.

ESMG 3600 (Cross-listed with: CJ 3600)

Psychology of Emergency Services

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines the general psychological aspects of police, fire, and emergency medical services responders including dimensions of personality, family, organizational, cultural and diversity issues. Examines models of emergency and crisis decision making. Analyzes stress, anxiety, and trauma theories and clinical issues and examines current interventions being used for related disorders and building resilience.

ESMG 3710

Comparative Approaches to Homeland Security

3:3:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Discusses shared terrorism threats as well as policies and strategies employed by a range of democratic countries to cope with terrorism and other homeland security-related threats. Examines issue areas such as bio-threats, health system preparedness, airport security and anti-radicalization policies across a number of countries. Reviews the practices of other countries and translates those practices into policies applicable in the United States. Prepares students to engage with their international partners at the local, state, or federal levels as Homeland Security becomes an increasingly global undertaking requiring greater international outreach.

ESMG 4150

Humanitarian Services and Disaster Relief

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Examines both theoretical and applied aspects of complex humanitarian emergencies and reviews disasters in the context of humanitarian relief. Explores the needs of displaced persons and the systems and practices currently in place to meet these needs. Reviews the principles of preparedness, resilience, and sustainability in terms of short-term response to disasters and long-term community recovery.

ESMG 4200

Disaster Response and the Public

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G or department approval

Prepares emergency services students to respond effectively to public information needs in both day-to-day emergency circumstances as well as in more extreme disaster conditions. Explores the theory and develops skills to effectively respond in crisis situations. Presents case studies in crisis response that demonstrate how information can help the public prepare, respond, and recover from disasters. This course will be offered as a hybrid or online course.

ESMG 425G

Crisis and Disaster Management

3:3:0 Fall, Spring

* Prerequisite(s): ENGL 1010, ESGM 310G, or departmental permission. University Advanced Standing

Deals with the operations side of humanitarian action. Establishes principles that can be used in local, national, and international relief efforts. Applies best practices from emergency management to the field of humanitarian services and disaster relief. Meets the global and international requirements to foster greater understanding of, interaction with, and appreciation for, cultures that reflect the diversity present within the local and campus communities, up to the larger state and global context.

ESMG 4400

Legal Considerations for the Emergency Services

3:3:0 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Examines regulatory, political, and social aspects of government's role in emergency services agencies, including regulatory issues, emergency services operations, employment, personnel issues, roles, legislative issues, and political influence.

ESMG 445G (Cross-listed with: CJ 445G)

Human Factors in Emergency Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and

University Advanced Standing

Introduces students to an emergency response approach to understanding hazards and disasters grounded in social vulnerability analysis. Examines historical, geographical, social, and cultural factors and conditions that put people differentially at risk before, during, and after disasters. Utilizes a multi-disciplinary approach. Focuses on global, national, regional, and local patterns of development. Explores how vulnerable social groups are affected by and cope with hazardous conditions and events, and strategies for community-based mitigation engaging those most at risk.

ESMG 4500

Customer Service and Marketing for the Emergency Services

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Explores the principles and importance of customer oriented service delivery within the emergency services. Looks at current practices and delves into emerging needs and solutions for marketing and public relations. Includes research and critical thinking strategies for local, national, and global perspectives on customer service.

ESMG 4550

Principles of Disaster and Emergency Management

3:3:0 Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Introduces the student to the need for and creation of comprehensive emergency planning operations. Explores risk assessment techniques and critical analysis strategies for communities and governmental agencies. Teaches the components of a comprehensive emergency plan and presents the National Incident Management System (NIMS), mandated by presidential directive.

ESMG 4600

Public Administration for the Emergency Services

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

For Public Emergency Services Management students. Examines the relationship between the emergency management function in government and the professional field of public administration. Topics include public policy making, implementation and analysis, disaster analysis, problem solving and solution formulation.

ESMG 4650

Emergency Services Capstone

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Public Emergency Services Management capstone course. Examines cutting-edge issues under the guidance of top professionals. Includes interviews with local and state officials to identify potential critical issues. Discusses personal leadership philosophy and strategies for decision making.

ESMG 481R

Emergency Services Internship

1 to 8:0:5 to 40 Fall, Spring, Summer

* Prerequisite(s): ENGL 2010, (ESFF 1000 or sufficient emergency services experience), and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Emergency Services Management. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 16 credits toward graduation. May be graded credit/no credit.

ESMG 489R

Special Topics in Emergency Management

1 to 6:1 to 6:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ESGM 310G

Provides students the opportunity to study special leadership topics in Emergency Management. Requires students to identify standard leadership topics and evaluate their application to Emergency Services. Calls for the creation of a significant research paper that is characteristic of the Emergency Leadership discipline and worthy of communication to a broader audience. May be repeated for a maximum of 9 credits toward graduation.

ESMG 491R

Topics in Cardiology and Medical Trends

1 to 3:1 to 3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 2010, (ESFF 1000 or departmental approval), and University Advanced Standing

Surveys a specific topic in cardiology and medical trends related to Emergency Medicine. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation.

Course Descriptions

ESMG 492R

Topics in Trauma and Pharmacology
1 to 3:1 to 3:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 2010, (ESFF 1000 or departmental approval), and University Advanced Standing

Surveys a specific topic in trauma and pharmacological trends. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation.

ESMG 493R

Topics in Medical Litigation
1 to 4:1 to 4:0 Fall, Spring, Summer
* Prerequisite(s): ENGL 2010, (ESFF 1000 or departmental approval), and University Advanced Standing

Surveys a specific topic in medical litigation. Topic varies each semester. May be repeated for a maximum of 4 credits toward graduation.

ESMG 6100

Psychology and the Emergency Services Responder
3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Examines the psychological impact the emergency services profession has on the responder. Explains the effects of emergency response and bureaucracy on the psyche of the responder. Identifies the need for post-traumatic growth.

ESMG 6110

Disasters/Vulnerability/and Impacts
3:3:0 On Sufficient Demand
* Prerequisite(s): Acceptance into the Masters of Public Services Program

Evaluates the impact of natural and manmade disasters locally, nationally, and internationally. Analyzes historical disaster case studies in order to examine the aggregate costs of disasters.

ESMG 6120

Emergency Planning and Response
3:3:0
* Prerequisite(s): Acceptance into the Masters of Public Services Program

Examines the need for emergency planning and response criteria associated with emergency services delivery. Teaches how to generate a community wide emergency planning and response matrix. Identifies systems thinking within an emergency framework.

ESMG 6130

Social Vulnerability in Emergencies
3:3:0
* Prerequisite(s): Acceptance into the Masters of Public Services Program

Appraises social vulnerabilities within a community. Evaluates the sociological aspects of emergency response. Compares sociological and economic factors to resiliency.

Emergency Services Wildland Firefighter (ESWF)

ESWF 1310

S131 Firefighter Type 1
.5:5:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Meets the training needs of a Type 1 Wildland Firefighter (FFT1). Presents several tactical decision scenarios designed to facilitate learning the objectives and class discussion. Introduces the student to the Fireline Handbook and provides an overview of its application.

ESWF 1330

S133 Look Up Look Down Look Around
.5:5:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG pre-qualifications or departmental approval

Examines the wildland fire environment and the indicators firefighters should observe on the fire line in order to anticipate fire behavior.

ESWF 1400

Wildland Firefighting Fundamentals
4:3:3 Fall, Spring

Designed to meet the Wildland Firefighter I knowledge and skill requirements of NFPA 1051, Wildland Fire Fighter Professional Qualifications. Teaches students to recognize the "Situations That Shout Watchout," apply the appropriate Standard Fire Orders and how to deploy a fire shelter. Includes orientation to the Incident Command System. Teaches basic fireline construction, fire weather, and fire behavior. Each subject covered in this course meets and/or exceeds NWCG standards for the following classes: S-130, S-190, I-100, and L-180. Course fee of \$118 for materials, specialized clothing, equipment, and state services & testing applies.

ESWF 1410

Wildland Firefighter Internship I
5:2:9 Summer
* Prerequisite(s): ESWF 1400 or departmental approval

Provides experience in fighting fires at wildfire and urban interface incidents. Studies wildland fire behavior, fire weather, and fire mitigation. Teaches size-up, chain of command, communications, strategy, and tactics. Includes developing water sources, learning engine tactics, understanding procedures for aircraft, firing and felling operations. Completers should develop skills beyond the entry level firefighter. May be graded credit/no credit. Course fee of \$86 for specialized clothing, materials, and equipment applies.

ESWF 1420

Wildland Firefighter Internship II
5:2:9 Summer
* Prerequisite(s): ESWF 1410

Provides students with the training and experience that will assist them in gaining a job in wildland fire management and suppression. Features participation in a 20-person wildland fire suppression crew sponsored by the Utah Division of Forestry, Fire and State Lands. Also teaches about wildland fire behavior as well as fire suppression strategies and tactics. Requires students to participate in physically demanding assignments with long periods of time away from home. Exposes students to wildland fire and the various organizational and mechanical tools used to manage and suppress them, such as; aircraft, bulldozers, large engines and other fire management and suppression equipment. May be graded credit/no credit.

ESWF 2000

S200 Initial Attack Incident Commander
Type 4
1:1:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Designed to meet the the training needs of the ICT4 and is presented in a discussion/exercise format. Covers foundational skills, intelligence gathering and documentation, incident size up, development of a plan of action, post-fire activities, evaluation of incident objectives and incident management. Meets and/or exceeds NWCG standards for S-200

ESWF 2010

I200 Basic Incident Command System
1:1:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Introduces the principles of the Incident Command System (ICS) associated with incident-related performance. Includes leadership and management, delegation of authority, management by objectives, functional areas and positions, briefings, organizational flexibility, transitions and transfers. Built on the same lesson objectives and content as the NWCG I-200 course.

ESWF 2110

S211 Portable Pumps and Water Use
1.5:1.5:0 On Sufficient Demand
* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Covers three skill areas: supply, delivery, and application of water. Includes correct water use, basic hydraulics, and equipment care. Requires set up, operation, and maintenance of pump equipment in the field exercise. Meets and/or exceeds NWCG standards for S-211

ESWF 2150

S215 Fire Operations in the Wildland Urban Interface

2:2:0 On Sufficient Demand

* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Designed to assist structure and wildland firefighters who will be making tactical decisions when confronting wildland fire that threatens life, property, and improvements in the wildland/urban interface. Includes interface awareness, size-up, initial strategy and incident action plan, structure triage, structure protection tactics, incident action plan assessment and update, follow up and public relations, and firefighter safety in the interface. Meets and/or exceeds NWCG standards for S-215.

ESWF 2301

S230 Crew Boss Single Resource

2:2:0 On Sufficient Demand

* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Designed to produce student proficiency in the single resource boss position from initial dispatch through demobilization to the home unit. Topics include: operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post incident responsibilities.

ESWF 2340

S234 Ignition Operations

2:2:0 On Sufficient Demand

Provides training in the functional roles and responsibilities connected with the firing operations. Covers planning, ignition procedures and techniques, and equipment applicable to wildland and prescribed fire. Also addresses the role of the ignition specialist or firing boss as the organization manages escalation from a non-complex to a complex fire situation.

ESWF 2430

Wildland Firefighter Internship III

5:2:9 Summer

* Prerequisite(s): ESWF 1420 and departmental approval

Increases the level of leadership training and responsibility for individual firefighters. Includes work on Advanced Firefighter/Squad Boss Task book. Teaches and improves upon the following skills; firefighter safety, supervision, communication, situational awareness and other fire suppression skills needed to advance to the Squad boss level. Offers valuable experience in wildland fire suppression techniques as well as safety and organizational skills. May be graded credit/no credit.

ESWF 2600

S260 Interagency Incident Business Management

1:1:0 On Sufficient Demand

* Prerequisite(s): Meet NWCG Prequalifications or departmental approval

Studies the human resources aspect of emergency services in depth. Concentrates on the personnel issues associated with day to day emergency service organizational management. Includes topics of ethical conduct, recruitment, resources, and financial management.

ESWF 2700

S270 Basic Air Operations

1:1:0 On Sufficient Demand

* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Introduces aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. Addresses regulations, procedures and policies that primarily govern federal agency and ICS operations. Meets and/or exceeds NWCG standards for S-270

ESWF 2800

L280 Followership to Leadership

1:1:0 On Sufficient Demand

* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Provides a self-assessment opportunity for individuals preparing to step into a leadership role. Includes leadership values and principles, transition challenges for new leaders, situational leadership, team cohesion factors, ethical decision-making, and after action review techniques.

ESWF 2900

S290 Intermediate Wildland Fire Behavior

2:2:0 On Sufficient Demand

* Prerequisite(s): Meet NWCG prequalifications or departmental approval

Designed to prepare the prospective fireline supervisor to undertake safe and effective fire management operations. Second course in a series that collectively serves to develop fire behavior prediction knowledge and skills

ESWF 3000

S300 Incident Commander Extended Attack

1:1:0 On Sufficient Demand

* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing

Designed to meet the training needs of the Incident Commander Type 3 (ICT3). Focuses on the lessons of leadership and command as they relate to the ICT3 position. Includes multiple tactical decision games for students to practice new knowledge. Covers foundation skills, situational awareness, command and control, managing the incident, transitional activities, post-fire activities and a final simulation.

ESWF 3020

I300 Intermediate Incident Command System

1.5:1.5:0 On Sufficient Demand

* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing

Provides description and detail of the Incident Command System (ICS) organization and operations in supervisory roles on expanding or Type 3 incidents. Topics include: ICS fundamentals review, incident/event assessment and agency guidance in establishing incident objectives, Unified Command, incident resource management, planning process, demobilization, transfer of command, and close out.

ESWF 3300

S330 Task Force Strike Team Leader

1.5:1.5:0 On Sufficient Demand

* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing

Teaches the application of risk management processes found in the Incident Response Pocket Guide (IRPG) to various incidents. Includes scenarios and exercises that assess the application of tactics specific to wildland fire suppression.

ESWF 3360

S336 Tactical Decision Making in Wildland Fire

1.5:1.5:0 On Sufficient Demand

* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing

Meets training requirements in the Operations section of the Incident Command System. Includes examples and exercises specific to wildland fire suppression.

ESWF 3390

S339 Division or Group Supervisor

1.5:1.5:0 On Sufficient Demand

* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing

Prepares students to perform in the role of division/group supervisor. Includes division/group management, organizational interaction, division operations, and all-hazard operations. May include tactical decision games.

ESWF 4000

I400 Advanced Incident Command System

1.5:1.5:0 On Sufficient Demand

* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing

Provides an operational understanding of large single-agency and complex multi-agency/multi-jurisdictional incident responses. Topics include: review for command and general staff, major and/or complex incident/event management, area command, and multi-agency coordination.

ESWF 4390

S390 Introduction to Wildland Fire Behavior Calculations

2:2:0 On Sufficient Demand

* Prerequisite(s): (Meet NWCG prequalifications or departmental approval) and University Advanced Standing

Introduces fire behavior calculations by manual methods, using nomograms and the Fire Behavior Handbook. Covers the determinants of fire behavior through studying inputs (weather, slope, fuels, and fuel moisture). Teaches how to interpret fire behavior outputs, documentation processes, and fire behavior briefing components.

Course Descriptions

Exercise Science (EXSC)

EXSC 2500

Sports Medicine

3:3:0

Fall, Spring, Summer

* Prerequisite(s): EXSC Majors: ZOO 2320 (or 232H), ZOO 2325 (or 232L), all with a C- or higher and (MATH 1050 or MATH 1055). PETE Majors: ZOO 1090
* Prerequisite(s) or Corequisite(s): ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055). PETE Majors: PETE 2700 both with a C- or higher and (MATH 1050 or MATH 1055).

Explores the field of Sports Medicine. Provides instruction on injury management, including record keeping, assessment, and steps to recovery. Teaches an understanding of different tissues' response to injury. Investigates different imaging techniques used in assessment. Examines surgical considerations for specific injuries.

EXSC 270G

Foundations of Exercise Science

3:3:0

Fall, Spring, Summer

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L) all with a C- or higher, and (MATH 1050 or MATH 1055)

Introduces the study of the Exercise Sciences and discusses the global influence on the development of the field. Studies the national and international history and philosophy of the field of Exercise and sport science. Analyzes problems in areas covered under the umbrella of Exercise Science and Physical Education. Explores related career and employment opportunities in this area.

EXSC 3270

Exercise Testing and Prescription

3:3:0

Fall, Spring, Summer

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), all with a C- or higher, and (MATH 1050 or MATH 1055), and University Advanced Standing
* Prerequisite(s) or Corequisite(s): ZOO 2420 (or 242H), ZOO 2425 (or 242L), and EXSC 270G

Teaches key concepts related to exercise testing and program design for healthy populations and populations with controlled disease. Explores concepts in team, group, and individualized assessment and programming. Emphasizes principles in anatomy, exercise physiology, behavior modification, motivation, health promotion, fitness assessment and prescription. Encourages students to sit for certification exams upon course completion. Course fee of \$20 for supplies.

EXSC 3400

Statistical Analysis in Exercise Science

3:3:0

On Sufficient Demand

* Prerequisite(s): (MATH 1050 or higher) and University Advanced Standing

Provides an introduction to statistics, as well as the role of statistics in experimental design that is necessary to evaluate data collected from measurements commonly used in exercise science, health, physical education and recreation.

EXSC 3500

Kinesiology

3:3:0

Fall, Spring, Summer

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), all with a C- or higher and MATH 1050 or MATH 1055. PETE Majors: ZOO 1090 and PETE 2700 both with a C- or higher and MATH 1050 or MATH 1055. REC Majors: ZOO 1090 and REC 2200 both with a C- or higher and STAT 1040 or STAT 1045 or MATH 1050 or MATH 1055. All: University Advanced Standing
* Prerequisite(s) or Corequisite(s): ZOO 2420 (or 242H), ZOO 2425 (or 242L), and EXSC 270G

Studies human movement. Includes the structure of the human body and fundamental mechanics. Emphasizes kinesiological and mechanical analysis.

EXSC 3550

Motor Learning and Control

3:2:2

Fall, Spring, Summer

* Prerequisite(s): EXSC Majors: ZOO 2320 (or 232H), ZOO 2325 (or 232L), and Pre or Co-requisite all with a C- or higher and (MATH 1050 or MATH 1055). PETE Majors: ZOO 1090 and Pre or Co-requisite PETE 2700 both with a C- or higher and (MATH 1050 or MATH 1055). REC Majors: ZOO 1090 and Pre or Co-requisite REC 2200 both with a C- or higher and (STAT 1040 or STAT 1045 or MATH 1050 or MATH 1055). All: University Advanced Standing
* Prerequisite(s) or Corequisite(s): ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G

Examines motor and cognitive characteristics of individuals involved in learning or performing motor skills. Examines conditions that influence learning. Analyzes how humans learn complex movement skills and control voluntary, coordinated movement. Analyzes the basic psychological processes involved in learning and control of movement and their effect on instruction and practice conditions for the learner. Studies motor development and its effect on skill acquisition. Course fee of \$14 for equipment, software applies.

EXSC 3700 (Cross-listed with: ZOO 3700)

Exercise Physiology

3:3:0

Fall, Spring, Summer

* Prerequisite(s): EXSC Majors: ZOO 2320 (or 232H), ZOO 2325 (or 232L), and EXSC 270G all with a C- or higher and MATH 1050. PETE Majors: PETE 2700 and ZOO 1090 with a C- or higher and (MATH 1050 or MATH 1055). All: University Advanced Standing
* Prerequisite(s) or Corequisite(s): ZOO 2420 (or 242H), ZOO 2425 (or 242L)

Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. Requires separate weekly laboratory.

EXSC 3705 (Cross-listed with: ZOO 3705)

Exercise Physiology Laboratory

1:0:3

Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing
* Corequisite(s): EXSC 3700

Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. The laboratory is designed to offer the hands-on experience where students will experience the physiological responses to different stressors in the lab setting. The labs are arranged to be conducted as similar material is being discussed in class. Course Lab fee of \$28 for materials applies.

EXSC 3730

Biomechanics

3:3:0

Fall, Spring

* Prerequisite(s): EXSC Majors: ZOO 2320 (or 232H), ZOO 2325 (or 232L), and all with a C- or higher and (MATH 1050 or MATH 1055). PETE Majors: ZOO 1090 and Pre or Co-requisite PETE 2700 both with a C- or higher and (MATH 1050 or MATH 1055). REC Majors: ZOO 1090 and Pre or Co-requisite REC 2200 both with a C- or higher and (STAT 1040 or STAT 1045 or MATH 1050 or MATH 1055). All: University Advanced Standing
* Prerequisite(s) or Corequisite(s): ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G, and EXSC 3500

Emphasizes the application of engineering principles and technology in sports performance through interdisciplinary methodologies. Includes human gait analysis, locomotion, trunk biomechanics, computer modeling, and tissue biomechanics. Course fee of \$20 for equipment, supplies, and lab applies.

EXSC 3750

Psychosocial Aspects of Human Performance

2:2:0

Fall, Spring, Summer

EXSC Majors-Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), and Pre or Co-requisite(s): EXSC 270G all with a C- or higher and MATH 1050. PETE Majors-Prerequisite(s): ZOO 1090 and Pre or Co-requisite(s): PETE 2700 both with a C- or higher and MATH 1050. REC Majors-Prerequisite(s): ZOO 1090 and Pre or Co-requisite(s): REC 2200 both with a C- or higher and STAT 1040 or MATH 1050. All-University Advanced Standing. Provides students with the necessary skills and understanding to adequately deal with the psychological and social aspects of human and sport performance. Develops techniques and psychological skills to enhance performance and establish a learning and social environment that would enhance the effectiveness of coaches and maximize the skill and personal growth of athletes.

EXSC 3850

Ethical Concerns in Exercise Science

3:3:0

Fall, Spring

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055) and University Advanced Standing

Surveys applied concepts of ethical codes and legal liability. Explores systems used by community and adventure education programs for aspects protective of participants, staff, and institutions.

EXSC 4000

Clinical Exercise Physiology

3:2:3

Fall, Spring

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G, and EXSC 3270 all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Emphasizes information and skills related to exercise testing and prescription in healthy and clinical populations. Teaches American College of Sports Medicine (ACSM) exercise testing guidelines.

EXSC 4050**Obesity Physiology and Physical Activity****3:3:0**

* Prerequisite(s): EXSC 270G

Provides a broad understanding of the negative health impacts of obesity on physiology. Focuses on exercise modalities that are safe and appropriate as means to treat and ameliorate the negative health consequences of obesity.

EXSC 4100**Fitness Across the Lifespan****3:3:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing.

Addresses key issues relative to fitness across the lifespan; including, fitness in youth, adult fitness, aging, physical activity program design and implementation, attrition, behavior modification, and the role of exercise in disease prevention and/or management.

EXSC 4200**Exercise Metabolism****3:3:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Examines how exercise affects the functioning of human and animal organisms at the molecular level. Focuses on the tools of basic principles of biochemistry and teaches how to use the tools to understand how exercise affects metabolism. Studies how to use biochemical tests to assess an exercising person's health and performance.

EXSC 4300**Research Methods in Exercise Science and Outdoor Recreation****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): EXSC Majors: ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), and Pre or Co-requisite EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055).
REC Majors: ZOO 1090 and Pre or Co-requisite REC 2200 both with a C- or higher and (STAT 1040 or STAT 1045 or MATH 1050 or MATH 1055). All: University Advanced Standing.

Introduces students to key research in their field. Emphasizes analytical and interpretive skills. Develops scientific writing skills. Promotes design and utilization of comprehensive research methodologies commonly applied in Exercise Science and Outdoor Recreation.

EXSC 4400**Physical Activity Promotion in the Community****3:3:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Emphasizes concepts related to physical activity promotion in the community. Critically reviews literature associated with physical activity programming in communities including barriers to physical activity participation, behavioral change theory, and social, environmental, and biological factors that influence physical activity behavior. Promotes application of concepts developed in class through introductory supervised field experience.

EXSC 4410**Promoting Physical Activity in the Community Field Experience****1:0:4****Fall, Spring**

* Prerequisite(s): University Advanced Standing

* Corequisite(s): EXSC 4400

Provides complementary field experiences for students taking EXSC 4400 (Physical Activity Promotion in the Community).

EXSC 4500**Advanced Sports Nutrition****3:3:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G and Pre or Co-requisite EXSC 3700 and 3705 all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Designed to provide exercise science students a comprehensive understanding of basic nutritional principles as they relate to sports.

EXSC 4550**Principles of Strength and Conditioning****3:3:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G, EXSC 3500 and EXSC 3700 and EXSC 3705 all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Emphasizes knowledge of physiological principles and training techniques used in strength and conditioning. Teaches guidelines from the National Strength and Conditioning Association (NSCA). Prepares students for several sections of the NSCA Certified Strength and Conditioning Specialist exam.

EXSC 4600**Advanced Biomechanics****3:3:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing
* Prerequisite(s) or Corequisite(s): EXSC 3730

Teaches the application of mechanical principles to the development of motor skills. Includes research and technology utilized in the field of biomechanics.

EXSC 4700**Advanced Gross Motor Assessment****3:3:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G, EXSC 2500 and EXSC 3500 all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Provides the students with advanced instruction on and the development of knowledge, skills and abilities to be able to safely and effectively evaluate and interpret / qualify gross motor function. Includes but is not limited to surface anatomy, bony and soft tissue palpation, Range of Motion (ROM), muscular strength, neurologic innervation and stress tests of supportive structures.

EXSC 481R**Internship in Exercise Science****1 to 8:0:5 to 40****Fall, Spring, Summer**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Provides students with hands-on professional experience in the field of exercise science. May be repeated for a maximum of 8 credits toward graduation. Graded credit/no credit.

EXSC 489R**Undergraduate Research for Exercise Science****1 to 4:0:5 to 20****Fall, Spring, Summer**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the Exercise Science discipline and worthy of communication to a broader audience. May be repeated for a maximum of 8 credits toward graduation.

EXSC 4950**Senior Seminar****2:2:0****Fall, Spring**

* Prerequisite(s): ZOO 2320 (or 232H), ZOO 2325 (or 232L), ZOO 2420 (or 242H), ZOO 2425 (or 242L), EXSC 270G all with a C- or higher and (MATH 1050 or MATH 1055), and University Advanced Standing

Emphasizes critical evaluation of classic and current research in Exercise Science. Promotes research and writing skills within the discipline of Exercise Science. Promotes student centered learning and supports specialization within the field of Exercise Science.

Facilities Management (FAC)

FAC 1010

Survey of Facilities Management

3:3:0

Spring

Orients Facilities Management (FAC) majors with core responsibilities in the industry. Uses case studies and theory to gain experience with problem solving and resource management.

FAC 1020

Space Planning and Management

3:3:0

On Sufficient Demand

* Prerequisite(s) or Corequisite(s): ENGL1010

Focuses on the forecasting, growth, planning, allocation, and management of occupied space. Discusses the role of the facilities manager in planning and managing growth.

Family Studies (FAMS)

FAMS 101G

Contemporary Families

3:3:0

Expands students' awareness of variations within families due to form, culture, and other factors. Focuses on areas of kinship, family organization, traditions, interpersonal relationships, parenting practices, values and beliefs, and prejudice. Canvas Course Mats \$66/McGraw applies

FAMS 1100

Life Span Development in the Family

3:3:0

Studies issues surrounding physical, cognitive, social, and emotional development of the individual within the context of family across the lifespan. Emphasizes how the context of family influences development of the individual.

FAMS 1150

Marriage and Relationship Skills

3:3:0

Fall, Spring, Summer

SS

Guides students in building a lasting intimate relationship of their own and in understanding and teaching relationship maintenance and improvement strategies based on large-scale scientifically derived marriage and relationship principles. Utilizes cutting edge research on factors and issues related to relationship success and outcome including whom and when to marry and how to build stable and happy relationships over time. Stresses increased understanding of desirable relationship outcomes and how to achieve them.

FAMS 2705

Ethics for Family Interventions

3:3:0

* Prerequisite(s): FAMS 101G and ENGL 1010 or 101H (with a C+ or higher)

Covers the ethical and legal responsibilities of the helping professional in various types of family intervention, including counseling, education, and case management. Examines the broad scope of these ethical and legal concerns and how they are applied in a variety of settings.

FAMS 2800

Teaching Human Sexuality

3:3:0

* Prerequisite(s): FAMS 101G and (ENGL 1010 or ENGL 101H with a C+ or higher)

Introduces basic concepts of human sexuality and effective methods to teach these topics to adults, parents, and adolescents. Discusses gender roles, sexual orientation, dysfunction, and sexually transmitted disease. Examines sexuality from the perspective of ethics, religion, the law, and education. Requires students to assess their own sexual attitudes and acquire information that should enable them to make responsible sexuality decisions. Educates students in how to teach human sexuality effectively regardless of any biases or individual beliefs. Note: Due to Utah State Laws regarding sexuality education, students registering for FAMS 2800 must be 18 years of age or a high school graduate.

FAMS 3000 (Cross-listed with: SW 3000)

Social Work Practice I

3:3:0

Fall, Spring, Summer

* Prerequisite(s): Admission to the BSW program or declared major in Family Science and University Advanced Standing

Introduces the basic knowledge, values, and skills needed for generalist social work practice. Focuses on working with individuals using the planned change process within the strengths perspective. Assists students in understanding the social and environmental conditions that negatively affect clients and empowering clients to take steps to enhance their own well-being. Provides content on the evaluation of social work practice.

FAMS 3250

Applied Parenting

3:3:0

Fall, Spring

* Prerequisite(s): (PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Exposes students to classical and contemporary parenting theory, research, and practice. Focuses on the application of the guidance of children. Includes the study of parenting concepts, challenges, risks, and alternatives while considering the social, physical, emotional, intellectual, and spiritual environments of the child.

FAMS 3410 (Cross-listed with: COMM 3410)

Fundamentals of Mediation and Negotiation

3:3:0

Fall, Spring, Summer

* Prerequisite(s): (FAMS 101G or PSY 1010 or SOC 1010 or SW 1010 or COMM 1050) and University Advanced Standing

Teaches students to understand and participate knowledgeably on a basic level in the processes of mediation and negotiation. Emphasizes conceptual knowledge of both processes and improves practical skills and effectiveness as a mediator and negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play.

FAMS 3800

Early Development in Families

3:3:0

* Prerequisite(s): FAMS 101G and (ENGL 2010 or 2020 with a C+ or higher) and University Advanced Standing

Studies physical, social, emotional, and cognitive development from conception through adolescence. Emphasizes normal child development within family, social, and cultural contexts.

FAMS 3850

Adult Development and Aging

3:3:0

* Prerequisite(s): FAMS 101G and (ENGL 2010 or 2020 with C+ or higher) and University Advanced Standing

Explores the dynamic process of adult development from emerging adulthood to death. Focuses on current adult developmental research and theory and the development of adults within and without the family system. Includes the examination of physical, familial, emotional, and social development.

FAMS 4040

Secondary Data Analysis

3:3:0

* Prerequisite(s): BESC 3010; BESC 3020; (ENGL 2010 or 2020 with a C+ or higher) and University Advanced Standing

Focuses on research in the academic discipline of Family Studies. Teaches how to use the tools of research as a problem solving resource in real-life and applied settings. Includes how to form a research question or hypothesis, develop a proposal, create measurement, and apply for IRB approval. Requires completion of a research project.

FAMS 4200 (Cross-listed with: COMM 4200)

Advanced Mediation and Negotiation

3:3:0

Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher) and (FAMS 3410 or COMM 3410 or BESC 3420 or COMM 3420) and University Advanced Standing

Prepares students to perform at an advanced level in the processes of mediation and negotiation. Builds on the fundamentals learned in the basic course, improves knowledge of both processes, and sharpens practical skills and effectiveness as a mediator or negotiator. Uses an interactive-workshop format that blends theory with simulated class role-play.

FAMS 4300

Family Dispute Resolution

3:3:0

* Prerequisite(s): FAMS 3410 or COMM 3410 or instructor approval; and University Advanced Standing

Builds on fundamentals learned in the basic mediation course. Reviews research and theories on family dynamics and conflicts. Examines the most effective mediation approaches, techniques, and skills for resolving family disputes. Presents information on specialized family mediation situations such as family mediation divorce, parent/teen, adoption, elder care. Prepares students to effectively participate in family mediations by utilizing an interactive workshop format with role-play, observation, and actual mediations.

FAMS 4400

Family Policy

3:3:0

* Prerequisite(s): (FAMS 101G or PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Creates an understanding of the role of family professionals as advocates for the institution of the family. Covers family theories and research methods which aid in critically analyzing current policy development and implementation patterns in Utah and the United States. Utilizes the developmental theory in support of advocacy for family members in all their diverse structures, ages, and life stages.

FAMS 4500

Family Life Education Methodology

3:3:0 **Fall, Spring**

* Prerequisite(s): (FAMS 101G or PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Explores the field of family life education. Includes the history, development, and theory of family life education, as well as discusses the types of family life education programs. Develops the knowledge and practical skills that are required to identify needs, design programs, teach family life education, facilitate groups, and evaluate participants and programs in a wide variety of settings with a broad range of populations. Develops an appreciation for the impact of diversity in family life education which includes an awareness of multicultural factors, family structure, culture, economics, gender, race, religion, disability, ageism, and sexual orientation.

FAMS 4600

Relationship Education Certification

3:3:0

* Prerequisite(s): FAMS 101G and (ENGL 2010 or 2020 with a C+ or higher) and University Advanced Standing. FAMS 4500 is strongly encouraged but not required.

Certifies students in the Prevention and Relationship Enhancement Program and other relationship curricula.

FAMS 4660

Family Financial and Resource Management

3:3:0 **Fall, Spring**

* Prerequisite(s): (FAMS 101G or PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing; SOC 1200 strongly recommended

Introduces students to the fundamentals of family financial management. Focuses on norms, roles, values, and traditions of financial management in family systems. Emotional, subjective, and unstructured patterns which contribute to financial mismanagement are evaluated. Personal and social influences are considered, including, marketing, holidays, spending pressure, goal definition, and debt accumulation.

FAMS 4670

Family Dynamics and Systems

3:3:0 **Fall, Spring**

* Prerequisite(s): (FAMS 101G or PSY 1010 or SOC 1010) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing; SOC 1200 strongly recommended

Introduces the fundamentals of family dynamics and systems as they relate to family structure and function. Focuses on historical development, theoretical underpinnings, and applied utility of dynamics and systems. Includes boundary management, infraction, and renewal in contemporary family systems.

FAMS 4680

Family Theory

3:3:0

* Prerequisite(s): FAMS 101G and (ENGL 2010 or 2020 with a C+ or higher)

Explores the development and application of the major family theories and their tenets. Discusses the effectiveness of these theoretical approaches to family.

FAMS 4700

Introduction to Marriage and Family Therapy

3:3:0

* Prerequisite(s): FAMS 101G, PSY 3400, and University Advanced Standing

Introduces the field of marriage and family therapy. Addresses history, theory, prominent clinicians and modalities, and therapeutic topics and techniques. Develops the knowledge of such topics as the systemic nature of therapy. Focuses on knowledge of theory and specific topics in therapy rather than skill development. Includes research, training, professional issues, and ethics in the field.

FAMS 475R

Current Topics in Family Studies

1 to 3:1 to 3:0

* Prerequisite(s): FAMS 101G and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Presents a selected topic in Family Studies and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for nine credits toward graduation.

FAMS 481R

Senior Internship

1 to 8:0:5 to 4:0

* Prerequisite(s): Senior Standing in the Family Science program or Family Studies emphasis, BESC 3020, permission of the instructor, and University Advanced Standing

Provides practical and research experience interning in a governmental, corporate, or private agency apart from regular employment. Internship placements provide opportunities for contribution to the planning, design, implementation, and/or evaluation of family life educational programs. Supervised by agency representative. Requires faculty approval. May be repeated for up to 8 credits toward graduation. May be graded credit/no credit. Course fee of \$35 applies

FAMS 482R

Strengthening Families Internship

1 to 8:0:5 to 4:0

* Prerequisite(s): Senior Standing in the Family Science program or Family Studies emphasis, FAMS 4500, permission of the instructor, and University Advanced Standing

Provides practical and research experience interning in the Strengthening Families Program. Supervised by agency representative. Requires faculty approval. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit. Course fee of \$35 applies.

FAMS 483R

Research Internship

1 to 8:0:5 to 4:0

* Prerequisite(s): Senior Standing in the Family Science program or Family Studies emphasis, BESC 3010 and BESC 3020 and (ENGL 2010 or 2020 with a C+ or higher) and University Advanced Standing or department approval.

Provides research experience. Topics include idea formation, survey creation, data collection, marketing, data cleaning, qualitative coding, codebook creation, data analysis, gathering or summarizing literature, or preparing presentations/manuscripts. May be graded credit/no credit. May be repeated for up to eight credits toward graduation.

FAMS 485R

Internship Seminar

1:1:0

* Prerequisite(s): Junior standing in the Family Studies emphasis, BESC 3010, BESC 3020, FAMS 4500, permission of instructor, and University Advanced Standing

Provides integration of classroom learning with learning that takes place in an on-site internship. Intended to be taken concurrently with FAMS 481R or FAMS 482R. May be repeated for a maximum of 8 credits toward graduation.

FAMS 490R

Independent Study

1 to 3:1 to 3:0

* Prerequisite(s): BESC Department major; instructor approval and University Advanced Standing

Requires students to complete a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. May include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of six credits toward graduation.

Fine Arts Music and Theatre (FAMT)

FAMT 281R

Cooperative Work Experience

2 to 9:1:5 to 4:0 **On Sufficient Demand**

* Prerequisite(s): Approval of Cooperative Coordinator

Designed for Fine Arts majors. Provides paid work experiences in the student's major. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. May be repeated four times for credit. May be graded credit/no credit.

Finance (FIN)

FIN 1060 **SS**
Personal Finance
3:3:0 **Fall, Spring, Summer**

Designed as elective credit toward a business degree and for individuals interested in acquiring personal financial planning skills. Covers personal financial management with emphasis on decision making, budgeting, financial institutions, personal and family risk management, credit management, and estate planning. Methods include lectures, guest speakers, films, tapes, computer simulations and research. Completers should be able to prepare complete personal budgets and other family financial planning instruments. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

FIN 3020
Family Financial Management and Development
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): MAT 1030 or higher and University Advanced Standing

Personal and family financial management and development for non PFP Majors. Focuses on norms, roles, values, and traditions for the management of family resources. Examines the interactions and best practices of individuals and family members in processing financial management issues such as goal definitions, budgeting, debt management, and related functions.

FIN 3060
Introduction to the PFP Profession
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): MATH 1050 or MATH 1055 or MATH 1090 and University Advanced Standing

Introduces the processes appropriate for entry into the personal financial planning (PFP) profession. Provides an overview of the skills and knowledge sets required to be a PFP professional including an outline of business models and practice management issues within the industry. Includes a review of basic PFP process such as the time value of money, cash and debt management, personal financial statement analysis, education funding, and related issues.

FIN 3100
Principles of Finance
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing

For bachelor's degree business management majors. Examines financial management in the business environment; time value of money; fundamentals of security valuation; the capital asset pricing model and capital budgeting. Introduces finance terminology and quantitative techniques used in financial analysis. Covers financial ratios and financial statement analysis, cost of capital, working capital policies, dividend policy, and a brief overview of international finance. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/Cengage applies.

FIN 3150
Financial Management
3:3:0 **Fall, Spring**
 * Prerequisite(s): FIN 3100 and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): ECON 3340

Examines financial aspects of firm decisions; presents theoretical underpinnings for financial management, together with quantitative techniques used to analyze financial questions. Covers financial analysis and planning; valuation methods; determination of required return; effect of capital structure decisions; funding alternatives; and corporate risk management. Requires analysis of a capital budgeting problem, including a written paper, quantitative analysis and presentation. Lab access fee of \$32 for computers applies.

FIN 3160
Financial Management for Accounting Majors
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): FIN 3100, MATH 1050, MATH 1055, or MATH 1090, and University Advanced Standing

Prepares accounting majors with the information and skills necessary to prepare for the certified management accounting (CMA) accreditation process. Includes coverage of financial statement analysis, evaluation of profitability, managing financial risk, management of capital issues, and other financial decision making processes.

FIN 3170
Financial Statement Analysis
3:3:0 **Fall, Spring**
 * Prerequisite(s): FIN 3100 and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): ECON 3340

Teaches the application of professional financial management processes required to analyze markets, sectors, obtaining experience with optimization, data analysis, and quantitative techniques appropriate to be successful in the profession. Promotes the skills necessary to determine the value of firms assets and the worth of those assets in financial markets.

FIN 3200
Financial Counseling
3:3:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): FIN 3060

Prepares students to be effective financial counseling practitioners. Trains students to begin their role as effective financial counselors and planners. Develops counselor and client relationships skills as well as communication techniques to help identify and assist clients in an integrated financial planning environment. Provides an overview of the learning process needed to recognize the financial issues and concerns of many individuals and families and how to appropriately recommend solutions to help clients help themselves, while focusing on counselor sincerity and effectiveness in client reality.

FIN 3210
Retirement Planning
3:3:0 **Fall, Spring**
 * Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, University Advanced Standing, and For PFP Majors Only.

Examines the topics of retirement planning and retirement plans from both employer and individual client settings. Uses a case study approach to apply and integrate the material. Emphasizes the evaluation of financial alternatives. Provides learning activities that will facilitate student growth and development in written and oral communication skills.

FIN 3220
Risk Management and Insurance
3:3:0 **Fall, Spring**
 * Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, University Advanced Standing, and For PFP Majors Only.

Examines risk management and insurance planning for individual clients as well as employers of small corporations. Teaches the development of risk management and insurance plans with economic and behavioral theory. Uses a case study approach to apply and integrate the material. Emphasizes evaluation of financial alternatives. Provides learning activities that facilitate growth and development in written and oral communication skills.

FIN 3300
Tax Planning for Personal Financial Planners
3:3:0 **Fall, Spring**
 * Prerequisite(s): FIN 3060, Matriculation into WSB, University Advanced Standing, and for PFP majors only

Examines the topic of income tax planning and forecasting for individual clients and small business owners. Uses a case study approach to integrate the material and apply it to personal financial planning situations. Emphasizes the evaluation of financial alternatives. Provides learning activities that will facilitate student growth and development in written and oral communication skills. Works with local practitioners to provide an engaged learning experience.

FIN 3400
Investment Management
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): FIN 3100 and University Advanced Standing

Overviews the field of investments. Introduces stocks, bonds, put and call options, commodity and financial futures. Emphasizes both theory and practical aspects of investment management. Includes security valuation, market hypothesis, capital asset pricing, strategies of portfolio construction, performance measures, and risk/return relationships. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

FIN 4100**Management of Financial Institutions****3:3:0** **Spring**

* Prerequisite(s): FIN 3100 and University Advanced Standing

Studies the U.S. financial system and its primary institutions and markets. Includes the role of the Federal Reserve System, American and international financial markets. Explores the impact of monetary policy on financial institutions and financial intermediation. Presents the term structure of interest rates, money, capital and mortgage markets, and management of thrift institutions and insurance companies. Lab access fee of \$32 for computers applies.

FIN 4160**Portfolio Management****3:3:0** **Spring**

* Prerequisite(s): FIN 3400 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ECON 3340

Examines portfolio theory and applied techniques used in selecting appropriate securities and managing the risk and return of a portfolio, with a focus on meeting investment objectives. Considers both stock and bond portfolios, and includes discussion of market efficiency, diversification, measurement of risk and of performance, bond duration and portfolio immunization, advanced bond pricing principles, bond swaps, term structure of interest rates, asset allocation, and portfolio hedging strategies.

FIN 4170**Derivative Securities****3:3:0** **Fall**

* Prerequisite(s): FIN 3100 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ECON 3340

Covers characteristics and institutional information about derivative securities, including forward and futures, options and swaps. Examines pricing models for these securities, risk inherent in derivative investments, and the role of derivatives in risk management. May include discussion of real options and other topics dealing with financial engineering.

FIN 4180**International Finance Management****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): FIN 3100 and University Advanced Standing

Examines financial aspects of firms operating in an international business environment. Includes currency valuation and forecasting; international flow of funds; foreign and international capital markets; valuation of multinational enterprises; and the effect of decisions about structure of the business and its transactions on firm value; and management of currency, political, and other risks arising from multinational operations. Lab access fee of \$32 for computers applies.

FIN 4190**Applied Asset Diversification and Management****3:3:0** **Fall, Spring**

* Prerequisite(s): FIN 3400 and University Advanced Standing

Teaches a wide variety of investment asset classes including performance measurement, analysis of portfolio investment assets, quantitative analyses of investment portfolios. Discusses complex investment concepts through simplification and modeling of these issues to help clients better understand the benefits of these investment concepts.

FIN 4200**Financial Counseling Practicum****3:3:0** **Fall, Spring**

* Prerequisite(s): FIN 3060, FIN 3200, Matriculation into WSB, and University Advanced Standing

Examines financial counseling with an engaged and practical focus. Uses actual client data in a supervised environment to integrate the material and core learning objectives, then apply them to financial counseling situations. Emphasizes the evaluation of credit and debt management, housing decisions and budgeting and forecasting. Provides learning activities designed to facilitate student growth and development in written, oral and presentation skills. Works with local practitioners to provide an engaged learning experience.

FIN 4210**Estate Planning Fundamentals****3:3:0** **Fall, Spring**

* Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, University Advanced Standing, and For PFP Majors Only.

Teaches gift, estate, and generation skipping transfer taxation, including financial and estate planning applications. Applies gift, estate, and generation skipping transfer taxation rules to personal financial planning scenarios. Studies financial regulations and taxation policy. May be delivered hybrid.

FIN 4250**Personal Financial Planning Practicum****3:3:1** **On Sufficient Demand**

* Prerequisite(s): FIN 3200, FIN 3210, FIN 3220, FIN 4210, FIN 3400, ACC 3400, and University Advanced Standing

Examines practice management in various financial planning firms. Teaches the basics of practice management with an understanding of the core areas of personal financial planning. Uses a case study approach to apply and integrate the material and evaluate financial alternatives. Emphasizes the benefits and drawbacks of various management methods. Provides learning activities that will facilitate student growth and development in written and oral communication skills.

FIN 4270**Wealth Management Seminar****3:3:0** **Fall, Spring**

* Prerequisite(s): FIN 3060, Matriculation into the Woodbury School of Business, University Advanced Standing, and For PFP Majors Only.

Introduces investment theory, literature and theories which describe the unique process of household investment decision making, and an introduction to quantitative investment analysis and the instruments used to construct an efficient household portfolio. Uses quantitative and theoretical material which will require a basic knowledge of economics and finance, and the ability to work with spreadsheets. Applies practical concepts to prepare students to work as wealth managers in financial planning firms.

FIN 4290**Technological Applications in Personal Financial Planning****3:3:0** **Fall, Spring**

* Prerequisite(s): FIN 3060, WSB matriculation, University Advanced Standing, and For PFP Majors Only.

Introduces various financial planning software packages. Includes both goal based and cash flow based financial planning software, client relationship management software, investment research software, portfolio management software, and office support software. Provides access to a variety of premier software companies in the U.S. and Canada. Certification in core software packages is required. Includes training material and standards as outlined by software companies.

FIN 4310**Real Estate Investment and Securities****3:3:0** **Fall**

* Prerequisite(s): FIN 3100 and University Advanced Standing

Examines real estate investments and debt and equity capital markets linked to real estate assets. Focuses primarily on real estate investments and valuation of debt and equity securities, including commercial and residential mortgages, real estate investment trusts, and mortgage-backed securities, and some related instruments such as CDOs. Examines the process of securitization and the secondary markets for real estate securities, together with the role of financial institutions in this sector. Provides an overview of real estate investment, measurement of prices, and fundamental determinants of value with particular attention given to the effect of interest rate risk, default risk, and the embedded prepayment options on the value of mortgages and mortgage-backed securities.

FIN 457R**Advanced Topics in Finance****3:3:0** **Fall, Spring**

* Prerequisite(s): FIN 3100, Instructor Approval, and University Advanced Standing

Uses case method, examination of current academic and professional literature and/or student research to explore selected finance topics in considerable detail. Emphasizes student analysis, exposition and presentation of information. May be repeated four times for a maximum of 12 credits toward graduation.

Course Descriptions

FIN 4700

CFP Examination Preparation

3:3:0 **Fall, Spring**

* Prerequisite(s): FIN 3060, FIN 3210, FIN 3220, FIN 3300, FIN 3400, FIN 4210, and University Advanced Standing

* Prerequisite(s) or Corequisite(s): FIN 4800

Prepares personal financial planning students completing his/her bachelor of science degree who are planning to take the Certified Financial Planner accreditation exam. Provides review of the concepts and issues individuals need to be successful. Uses Dalton Education materials.

FIN 4800

Personal Financial Planning Capstone

3:3:0 **Fall, Spring**

* Prerequisite(s): FIN 3060, FIN 3210, FIN 3220, FIN 4210, FIN 3400, University Advanced Standing, and For PFP Majors Only.

Develops the concept of a comprehensive plan. Reviews each of the major aspects of financial planning in the context of a comprehensive case. Analyzes the financial planning profession and the various types of financial planning models. Provides an overview of software applications as well as interview skills, data gathering, working with clients, presentation skills, and the creation of a comprehensive financial plan.

FIN 481R

Personal Financial Planning Internship

2 to 8:1:5 to 40 **Fall, Spring, Summer**

* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides supervised, practical, and professional experience for students preparing for careers in Personal Financial Planning. May be repeated for a maximum of 8 credit hours. May be graded Credit/No Credit.

FIN 482R

Internship

2 to 8:0:5 to 40 **Fall, Spring, Summer**

* Prerequisite(s): FIN 483R, Instructor Approval, and University Advanced Standing

For upper-division students in Finance. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job paid experience commensurate with upper-division classroom instruction. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. May be repeated for 6 credits toward graduation. May be graded credit/no credit.

FIN 483R

Colloquium in PFP Professionalism

1:1:0 **Fall, Spring**

* Prerequisite(s): University Advanced Standing and For PFP Majors Only.

Prepares PFP Program students for internships and other professional development activities. Features industry professionals who interact with students and discuss opportunities within the industry and their specific professional practices. Covers special topics such as business etiquette, dressing for success, preparing professional resumes, correspondence, etc. May allow students to experience extended personal interaction with visiting professionals by hosting them, providing transportation to/from the airport, escorting them to local points of interest, and more. May be repeated for a maximum of 3 credits toward graduation.

FIN 5130

Financial Statement Analysis and Modeling

3:3:0 **Fall, Spring**

* Prerequisite(s): FIN 3100

Explains the relationships among the three primary financial statements including income statement, balance sheet, and cash flow statements. Analyzes companies in three primary sectors and does reviews and valuations of these companies. Describes basic merger, acquisition, and initial public offering valuation concepts.

FIN 5160

International Financial Management

3:3:0 **Fall, Spring**

* Prerequisite(s): FIN 3100

Translates financial topics within an international perspective. Teaches international corporate finance transactions and the impact of currency implications on company financial translations. Provides a global context for cultural differences of financial concepts and practices in varied countries. Provides additional financial perspectives about international business transactions within the context of earlier financial courses.

FIN 5170

Investment Analysis and Portfolio Analysis

3:3:0 **Fall, Spring**

* Prerequisite(s): FIN 3100

Provides an introduction to the global securities market and its role in capital formation, wealth-creation, economic development, risk mitigation, wealth management, and other finance-related goals.

FIN 5180

CFA Examination Preparation

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): Permission of instructor or department chair

Prepares participants to sit for the Chartered Financial Analysis (CFA) Level 1 section of the exam. Requires students to work through a modular process covering outlined topics required for the exam including ethics, quantitative methods, economics, corporate finance, financial reporting/analysis, security analysis, and portfolio management.

FIN 6130

Financial Statement Analysis and Modeling

3:3:0 **Fall, Spring**

* Prerequisite(s): Acceptance in MBA Program

Develops fluency with the three primary financial statements including income statement, balance sheet, and cash flow statement. Projects statements for companies in three primary sectors and conducts a full enterprise valuation for projected companies. Conducts a mock merger, acquisition, and initial public offering valuation.

FIN 6150

Financial Management

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): Acceptance in the MBA program

Discusses corporate financial management cases and analyses dealing with problems of working capital management, capital budgeting, cost of capital evaluation, and corporate restructuring.

FIN 6160

International Financial Management

3:3:0 **Fall, Spring**

* Prerequisite(s): Acceptance in MBA Program

Translates financial topics into an international perspective. Focuses on international corporate finance transactions and the currency implications of financial statement translations. Provides a global context for cultural differences of financial concepts and practices around the world. Offers a financial perspective treating international business.

FIN 6170

Investment Analysis and Portfolio Analysis

3:3:0 **Fall, Spring**

Translates financial topics into an international perspective. Focuses on international corporate finance transactions and the currency implications of financial statement translations. Provides a global context for cultural differences of financial concepts and practices around the world. Offers a financial perspective treating international business.

French (FREN)

FREN 1010

Beginning French I

4:4:1

Fall, Spring

Emphasizes understanding, speaking, reading and writing skills. Basic language usage and cultural understanding are acquired through an activity-based approach. Lab access fee of \$10 applies.

FREN 1020

Beginning French II

4:4:1

Fall, Spring

* Prerequisite(s): Students need equivalent knowledge of FREN 1010

Completes the first year of study. Includes the remaining grammar, language concepts, and culture, and introduces students to literature in French. Lab access fee of \$10 applies.

FREN 115R
French Conversation I
1:1:0

Offers novice French speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

FREN 1500 **LH**
French Travel Study
3:1:6 **On Sufficient Demand**

Introduces students to a French-speaking foreign country for a minimum of 10 days of intensive language and culture study. Course entails several meetings prior to departure and at least one after the return home to facilitate observation and analysis of data to be gathered on the tour. An organized presentation of that data will be contained in a multimedia project due no later than one month after tour.

FREN 2010 **LH**
Intermediate French I
4:4:1 **Fall, Spring**

* Prerequisite(s): Students need equivalent knowledge of FREN 1020

Reviews grammar, reading, writing, and conversation skills learned throughout the first year. Introduces readings and discussions on the history, culture, and literature of the French world. Lab access fee of \$10 applies.

FREN 202G **HH**
Intermediate French II
4:4:0 **Spring**

* Prerequisite(s): Students need equivalent knowledge of FREN 2010

Emphasizes reading, writing, and conversational skills through socio-cultural studies in history, literature and art. Lab access fee of \$10 applies.

FREN 2050
Advanced French Grammar and Composition
3:3:0 **On Sufficient Demand**

* Prerequisite(s): FREN 202G or equivalent

Explores grammar of French focusing on areas typically difficult for English speakers. Provides extensive instruction in, and opportunity for the students' improvement in language production, both oral and written. Completers should improve considerably their ability to express themselves in the foreign language both orally and in written form.

FREN 215R
French Conversation II
1:1:0

* Prerequisite(s): Students should have equivalent knowledge of FREN 1020

Offers lower division / novice speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

FREN 3030
French Composition and Conversation
3:3:0

* Prerequisite(s): (FREN 202G or instructor approval) and University Advanced Standing

Advances mastery of French grammar while emphasizing production skills of speaking and writing. Expands reading and listening skills to a lesser degree. Reviews and extends lexical depth. Allows students without experience living in a French immersion setting to advance in their communication skills to where they may participate more comfortably in future upper division courses with other students who do have immersion experience. Offers a variety of topics presented in a variety of media as content basis for real communicative practice in French. Conducts all course work primarily in French.

FREN 3040
Introduction to Literary Genres in French
3:3:0 **On Sufficient Demand**

* Prerequisite(s): (FREN 202G or equivalent) and University Advanced Standing

Explores different literary genres in the French language throughout the centuries. Provides extensive opportunity for improvement in oral and reading/writing development of language skills, as well as new ways of thinking about literature in cultural contexts. Completers should considerably improve their ability to express themselves in the foreign language. Taught entirely in French.

FREN 3050 **LH**
Advanced French
3:3:0 **Fall, Spring**

* Prerequisite(s): FREN 3040, one year residency in French speaking country, or placement test

Continues to emphasize reading, writing, and conversational skills through studies in literary and other texts, including films dealing with Francophone cultures. Includes an in depth review of grammar. Lab access fee of \$10 applies.

FREN 3118
Paris City of Lights
3:3:0 **Fall**

* Prerequisite(s): Pass AP Exam with a minimum of 3

Explores the City of Lights through the prism of important themes, including, but not limited to, the arts, history, commerce, technology, sports, etc. Examines course themes through a variety of approaches, such as project based instruction, class discussion, and reaction papers. Taught in French.

FREN 3200 **LH**
Business French
3:3:0 **On Sufficient Demand**

* Prerequisite(s): (FREN 3050 or equivalent knowledge) and University Advanced Standing

For those who plan to pursue careers in international business or related fields, learn French business language, understand French corporate culture, or plan to major or minor in French. Teaches French business terminology and prepares students to take the Chambre de Commerce et d'Industrie de Paris exam. Explores technological, personal, and professional aspects of business. Will be taught entirely in the French language. Lab access fee of \$10 applies.

FREN 351G
Culture and Civilization to 1700
3:3:0

* Prerequisite(s): FREN 3050 and University Advanced Standing

Explores chronologically to 1700 the formation and development of French speaking societies and cultures. Traces the ethnic development and linguistic history of these societies and peoples, as well as examines manifestations of their aesthetic endeavors. Presentations and class instruction conducted entirely in French.

FREN 352G
Culture and Civilization from 1700
3:3:0

* Prerequisite(s): FREN 3050 and University Advanced Standing

Explores chronologically to 1700 the formation and development of French speaking societies and cultures. Traces the ethnic development and linguistic history of these societies and peoples, as well as examines manifestations of their aesthetic endeavors. Presentations and class instruction conducted entirely in French.

FREN 353G
Contemporary French Civilization and Culture
3:3:1 **On Sufficient Demand**

* Prerequisite(s): (FREN 3050 or equivalent) and University Advanced Standing

Examines contemporary French culture topics (family, education, love and the couple, religion, social challenges, governmental functions, etc.) through studying a variety of French sources: readings, film, lecture, individual research, etc. Analyzes topics through active class discussion in French. Integrates new cultural perspectives in papers and assignments researched and written in French. Conducted entirely in French.

Course Descriptions

FREN 3610

French Literature to 1700

3:3:0 On Sufficient Demand

* Prerequisite(s): (FREN 3050 or equivalent knowledge) and University Advanced Standing

Introduces chronologically to 1700 representative French authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the French language. Presentations and class instruction conducted entirely in French.

FREN 3620

French Literature from 1700

3:3:0 On Sufficient Demand

* Prerequisite(s): (FREN 3050 or equivalent knowledge) and University Advanced Standing

Introduces chronologically from 1700 representative French authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the French language. Presentations and class instruction conducted entirely in French.

FREN 4050

Special Topics in Grammar Usage and Style

3:3:0 Fall, Spring

* Prerequisite(s): FREN 3050 and University Advanced Standing

Focuses on understanding French grammar in context. Uses various literary texts and other print materials in an effort to underscore the grammar concepts studied.

FREN 4100

Teaching French Grammar

3:3:0 Fall, Spring

* Prerequisite(s): FREN 4050, instructor approval, and University Advanced Standing

Focuses on the fundamental concepts and practices of teaching French grammar in context. Prepares students to teach French language in secondary school settings. Requires a portfolio of best teaching practices as related to grammar instruction.

FREN 4200

Advanced Business French

3:3:0 On Sufficient Demand

* Prerequisite(s): (FREN 3200 or equivalent knowledge) and University Advanced Standing

For those taking the exam leading to the Diplome de francais des affaires (DFA 2) awarded by the Chambre de Commerce et d'Industrie de Paris. Emphasizes case studies, marketing, resumes, cover letters, job interviews, computers, and the Internet. Taught entirely in French.

FREN 4500

Advanced Writing in French

3:2:3 On Sufficient Demand

* Prerequisite(s): [(FREN 3030 and FREN 3040) or FREN 3050] and University Advanced Standing

Increases students' accuracy, clarity and use of appropriate registers when writing in French. Informs them of the significant roles played by form, content and intentionality of discourse in their writing, and improves their skills in addressing the requirements of those various roles.

FREN 4900

French Capstone Seminar

3:3:0 Fall, Spring

* Prerequisite(s): FREN 4050, instructor approval, and University Advanced Standing

Provides the opportunity to showcase language abilities through various oral and written assignments. Culminates in a final research project in the target language. Requires a selected subject to explore for the capstone project. Possible research areas include literary, film, and gender studies.

FREN 490R

Special Topics in French

3:3:0 On Sufficient Demand

* Prerequisite(s): (FREN 202G or instructor approval) and University Advanced Standing

Studies topic in detail not offered in other courses. Addresses key aspects of the topic. Engages students in critical analysis and discourse. Develops language skills requisite to such analysis and specific to the topic. Possible topics include French Film, Translation and Interpretation, Francophone Literature, Women's Texts, Courty Love. Conducted entirely in French. May be repeated for up to 9 credit hours towards graduation.

Forensic Science (FSCI)

FSCI 100R

Forensic Science Lecture Series

1:1:0 On Sufficient Demand

Consists of lectures presented by guest speakers on current topics in forensic science. May apply a maximum of three credits toward graduation.

FSCI 3300

Forensic Photography

3:3:0 Fall, Spring

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a 'C+' or higher) and University Advanced Standing

Explains the basic concepts of Forensic Photography while exploring the fundamental skills for the selection and use of photography equipment. Identifies the basic principles and fundamentals of using photography with regard to crime scenes, forensic evidence, and identification photography. Illustrates skills utilizing a DSLR camera with various types of lighting, camera settings, and common camera accessories. Explains techniques involving surveillance, impression, close up, alternate light sources, infrared photography, and the legal aspects of forensic photography as it pertains to criminal investigations. Course fee of \$155 applies.

FSCI 3400

Criminalistics

3:3:1 Fall, Spring

* Prerequisite(s): CJ 1350 with a C+ or higher and University Advanced Standing

Emphasizes the learning and proper use of technical vocabulary used in forensic science. Introduces basic photography and presentation techniques as they relate to the field of forensics. Teaches laws pertaining to making photographic copies and the legal steps required for altered photographs to be accepted in the criminal court system. Introduces basic laboratory measurement and statistical techniques. Uses stereo and compound light microscopes to visually examine physical evidence. Discusses the scientific theory and analytical procedures for analyzing refractive index of glass, species identification of hair, bullet rifling, DNA and the calculation of Post Mortem Interval. Course Lab fee of \$142 for materials applies.

FSCI 3500

Footwear and Tire Mark Evidence and Examination

3:3:0 Spring

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing

Presents the history of footwear and tire impression evidence and introduces the examination of impression evidence. Explains crime scene protection and searching procedures for impression evidence. Identifies and lists the basic equipment needed for footwear and tire impression recovery at a crime scene. Identifies applicable chemical formulas and instructs in the preparation of chemical reagents used to visualize impression evidence. Teaches the recovery of footwear and tire evidence through photography, lifting, and casting. Includes the methodology of footwear and tire identification by image comparison techniques. Course fee of \$128 for materials applies.

FSCI 3540

Forensic Trace Analysis I

3:2:3 Fall, Spring

* Prerequisite(s): FSCI 3400 with a C+ or higher and University Advanced Standing

Emphasizes the learning and proper use of technical vocabulary as it relates to forensic trace evidence. Teaches theory of techniques and operation of spectroscopic instruments. Performs spectroscopic analyses of various types of physical evidence. Uses stereo and compound light microscopes to prepare small samples for examination. Teaches forensic comparison analysis and technical report writing. Lab access fee of \$30 for computers applies. Course fee of \$135 for materials applies.

FSCI 3550

Forensic Trace Analysis II

3:2:3 On Sufficient Demand

* Prerequisite(s): (FSCI 3400 or CHEM 2310 with a C+ or higher) and University Advanced Standing

Teaches theory of chromatographic/mass spectrometry techniques and operation of their analytical instruments. Teaches proper use of technical vocabulary related to forensic analysis. Performs chromatographic and mass spectrum analyses of physical evidence commonly found in criminal investigations. Teaches sample preparation, forensic comparison analysis and technical report writing. Lab access fee of \$30 for computers applies.

FSCI 3700**Fingerprint Processing****3:3:0** **Fall, Spring**

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing

Teaches professional conduct in fingerprint processing. Explains the differences in latent fingerprints as they relate to the physical condition in which they are found. Describes and utilizes the equipment needed for fingerprint development, lifting, and comparison. Course fee of \$143 for materials applies

FSCI 3720**Fingerprint Examination****3:3:0** **Spring**

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing

Presents the history of fingerprint examination. Teaches recent technical advances in fingerprint development and examination. Describes the theory and make-up of fingerprints, palm prints, and footprints. Explores charting and comparison techniques. Teaches criteria used to determine successful identification versus non-identification. Lab access fee of \$30 for computers applies. Course fee of \$30 materials applies.

FSCI 3780**Bloodstain Pattern Analysis****3:3:0** **Fall, Spring**

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing

Teaches methods for protection against blood-borne pathogens. Reviews weights, measures, trigonometry, and stroboscopic photo techniques. Presents bloodstain analysis from functional and historical perspectives. Teaches specialized bloodstain terminology and the techniques of bloodstain documentation. Presents the physical properties of blood as they apply to forensic investigation. Uses characteristic patterns and computer applications to interpret the impact patterns of spattered blood. Determine the motion, directionality, point of convergence, and the point of origin of bloodstains. Teaches traditional and modern techniques in crime scene reconstruction for documenting and reconstructing the crime scene. Presents guidelines for presenting bloodstain evidence at trial. Course Lab fee of \$75 for materials applies.

FSCI 3800**Computer Forensics and Cyber Crime****3:3:0** **Fall, Spring**

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher or Instructor approval) and University Advanced Standing

Introduces computer forensics and cyber crime. Explains computer terminology, history, and the history of computer crime. Discusses computer crime, computer as targets, hacking, and beyond. Presents avenues for prosecution and government efforts cyber crime. Presents the application of First Amendment, Fourth Amendment, and the Electronic Communications Privacy Act to computer-related crime. Teaches applicable forensic terminology and the standards applied to computer investigations. Develops computer forensic science capabilities. Describes pre-search activities, approaching and securing the crime scene, and crime scene processing. Teaches methods of data protection, retrieval, and analysis. Presents conclusions and future issues. Lab access fee of \$35 for computers applies. Software fee of \$50 applies.

FSCI 3820**Crime Scene Investigation Techniques I****3:3:0** **Fall, Spring**

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing

Explains the fundamental goals of crime scene investigation and the importance of physical evidence. Teaches fundamental crime scene documentation skills including note taking, sketching, and photography. Teaches evidence identification, collection, and packaging procedures. Provides experience in evidence identification, documentation, collection, and packaging procedures. Course Lab fee of \$145 applies

FSCI 3830**Crime Scene Investigation Techniques II****3:3:0** **Fall, Spring**

* Prerequisite(s): FSCI 3820, FSCI 3780, and University Advanced Standing

Teaches computer-based crime scene measurement and diagram tools utilized to properly document crime scenes including clandestine human graves, scattered human remains, and under water, fire, and arson scenes. Provides instruction in proper approach, documentation, and analysis of complex crimes scenes. Teaches crime scene reconstruction techniques in bloodstain patterns and shooting incident scenes. Course fee of \$155 for materials applies. Course fee of \$30 applies.

FSCI 3850**Marijuana Identification Certificate****3:2:2** **Summer**

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher or Instructor Approval) and University Advanced Standing

Teaches the botanical and chemical methodology required for the legal identification of marijuana. Identifies the microscopic morphological features of the plant material. Uses thin layer chromatography to detect hallucinogenic chemicals. Uses the Duquenois-Levine Test to detect the cannabinoid family of chemicals and how to recognize false-positive results. Teaches the methodology to detect marijuana residues in charred debris. Interprets data, writes a marijuana analysis report and presents results in a Moot Court. Course fee of \$155 for materials applies.

FSCI 3860**Forensic Microscopy****3:2:3** **Spring**

* Prerequisite(s): (CJ 1350 or FSCI 3400 with a C+ or higher) and University Advanced Standing

Lays the foundation of forensic microscopy. Explains the theory of the microscope: light and lenses. Describes the major variants of the compound microscope including the stereo, polarized light and comparison varieties. Explains the function and purpose of the illuminator, sub-stage condenser, objective, and ocular. Establishes acceptable performance criteria and image quality as it relates to compromises among resolution, magnification, and visibility. Presents the use of specialized contrast enhancement methods and illumination techniques. Explains the theory and use of the polarized light microscope in the examination of anisotropic, birefringent, and optical properties of crystalline materials. Describes the use of the microscope as a quantitative measuring tool. Introduces instrument systems calibration methods for both the microscope as well as imaging software. Describes the collection and examination of micro-traces and the use of micro-trace catalogs. Examination and discussion of firearms, bullet, tool marks, hair and fiber characteristics. Lab access fee of \$30 for computers applies. Course fee of \$152 for materials applies.

FSCI 3880**Expert Witness Professional Practices****3:3:0** **Spring**

* Prerequisite(s): (CJ 1330 and CJ 2350 each with a C+ or higher) and University Advanced Standing

Stresses the importance of background checks, polygraph tests and personal integrity. Teaches Professional Competence: training, degrees and certificates, publications, affiliations, testimony track record, continuing education. Describes the duties and the special privileges of opinion testimony afforded to expert witnesses. Explains the Rules of Evidence and statistical reliability as they pertain to scientific data and findings. Presents guidelines for case review and report writing. Discusses trial strategy, testimony, presentations, and dangers that confront the expert witness at court. Discusses cross-examination strategies. Teaches professional business practices including personal organization, contracts for hiring the expert for professional services, consultation, correspondence, record keeping, fee setting, and fee collection.

FSCI 4000**Firearms Examination****3:3:0** **Fall**

* Prerequisite(s): (CJ 1350 and FSCI 3400 with a 'C+' or higher) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): FSCI 3860

Identifies modern firearms and ammunition while teaching how they operate and are manufactured. Explains how to collect, preserve, transport, and safely handle firearms and ammunition. Discusses the procedures of firing and the recovery of test bullets. Teaches the procedures of serial number restoration, gun shot residue tests, distance determinations, microscopic and chemical examinations. Includes how to interpret data, write reports of findings, and present results in a court of law. Course fee of \$65 applies

Course Descriptions

FSCI 4100

Forensic Pathology

3:3:0 Fall

* Prerequisite(s): ZOOL 1090, or ZOOL 2320 and 2325, University Advanced Standing

Teaches the fundamentals of scientific techniques used by forensic pathologists in medicolegal investigations. Differentiates between sudden or unexpected deaths, homicides, suicides, accidental deaths, and trauma.

FSCI 4200

Medicolegal Death Investigations

3:3:0 Spring

* Prerequisite(s): FSCI 4100 and University Advanced Standing

Discusses the foundation for understanding death scene analysis by an investigator in conjunction with a medical examiner while discussing the integration of medical, scientific, and legal methodology as applied to Medicolegal Death Investigations. Examines various techniques used in the study of forensic science and medicine. Teaches the interpretation of the facts and evidence to help determine and reconstruct the sequence of events at a variety of classic death scenes.

FSCI 443R

Directed Research in Forensic Science

2 to 7:1:3 to 15 Fall, Spring, Summer

* Prerequisite(s): Instructor Approval and University Advanced Standing

Provides undergraduate research. Guidance by a faculty member directs literature data, experimental design, data acquisition, interpretation of results, and conclusion. Written report, suitable in form for publication, necessary for completion. May be repeated for a maximum of 7 credits toward graduation. Lab access fee of \$30 for computers applies. Course fee of \$310 for materials applies.

FSCI 475R

Current Topics in Forensic Science

3:3:0 On Sufficient Demand

* Prerequisite(s): CJ 1350 or FSCI 3400 with a 'C+' or higher, and University Advanced Standing

Presents selected topics in Forensic Science and Forensic Investigations. Requires a special topic related to the area of study. May be repeated with different topic areas for a maximum of 9 credits toward graduation.

FSCI 481R

Forensic Science Internship

1 to 8:0:5 to 40 On Sufficient Demand

* Prerequisite(s): Department application approval and University Advanced Standing

Provides actual, on-the-job work experience on a paying or non-paying (volunteer) basis in a Forensic Science professions or other approved related situation. Emphasizes successful work experience, with emphasis on identifying and solving problems. May be repeated for a maximum of 8 credits toward graduation. May be graded Credit/No Credit.

FSCI 4990

Forensic Investigation Capstone

3:3:0 Spring

* Prerequisite(s): Junior standing in FSCI Bachelor's Degree Program, University Advanced Standing

Applies qualitative, quantitative, and/or mixed research methods for selected issues in forensic investigation. Requires the student to develop and present an undergraduate research project both orally and in writing.

Geography (GEOG)

GEOG 1000

Introduction to Physical Geography

3:3:0 Fall, Spring, Summer

Explores the world through each of the major components of physical geography: climatology, hydrology, geomorphology, and biogeography, focusing on how they are interrelated. Emphasizes the dynamic interactions among climate, vegetation, soils, and landforms. Can be taken in conjunction with laboratory exercises in GEOG 1005.

GEOG 1005

Introduction to Physical Geography Lab

1:0:2 Fall, Spring

* Prerequisite(s) or Corequisite(s): GEOG 1000

Designed to be taken in conjunction with GEOG 1000. Explores the world from a broad perspective, examining each of the major components of physical geography: climatology, hydrology, geomorphology, and biogeography. Investigates physical processes of and interactions among climate, vegetation, soils, and landforms.

GEOG 130G

Survey of World Geography GI

3:3:0 Fall, Spring, Summer

Explores the world in which we live. Studies major countries of the world with special emphasis on location, physical environment, culture, resources, and current events. May be delivered online.

GEOG 1400

Introduction to Human Geography

3:3:0 Fall

Examines the theoretical, spatial, and relational aspects of human activity across the Earth's surface. Discusses the analytical frameworks for understanding the interactions of social, cultural, economic and political systems. Topics include population dynamics, international development, human conflicts, and urbanization.

GEOG 1600

Geography of Utah

3:3:0 Fall

Applies principles and methods of physical, cultural, and human-environment geography to the study of Utah's people, places, and environments; considers problems of adjustment, including natural hazards, environmental concerns, and human problems. Designed for Secondary Education students seeking Geography or Social Science Composite certifications.

GEOG 2100

Geography of the United States

3:3:0 Spring

Surveys primarily the regional geography of the United States and, secondarily, of Canada. Explores subregions of each country in detail. Includes topics such as culture, environment, economy, urbanization, transportation systems, territory and political borders.

GEOG 2200

Geography of Europe

3:3:0 On Sufficient Demand

Provides a regional survey of Europe including topics such as economic development, environment, politics, society and culture. Explores the place of Europe in geopolitical and global economic systems. Discusses internal relationships within the European Union, Eastern Europe and Russia.

GEOG 2500

Geography of Latin America and the Caribbean

3:3:0 Fall

Surveys the Americas south of the United States. Explores each subregion of Latin America and the Caribbean in detail. Includes topics such as development, environment, indigenous peoples, history, and national political and financial crises.

GEOG 3010

Economic Geography

3:3:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

A course encompassing the study of humankind's economic activities on the earth, including hunting, gathering, agriculture, mining, manufacturing, forestry, fishing, high technology, and world trade. Studies population, environmental issues, urban patterns, and travel and tourism. Uses lectures, oral response, field trips, and audiovisual aids.

GEOG 3100

Cartography

3:2:3 Spring

* Prerequisite(s): (MAT 1030 or STAT 1040 or MATH 1050 or higher) and (GEO 1010 or GEOG 1000 or GEOG 1300 or equivalent); and University Advanced Standing

Introduces fundamental principles of cartography including perception, visualization, topographic and thematic map interpretation, field mapping techniques (including GPS), and creating computer-based maps. Includes concepts of direction, scale, grids, projections, spatial transformations, spatial data analysis, data manipulation decisions, color theory and application, and principles of cartographic design and critical evaluation.

GEOG 3110

Urban Geography

3:3:0 Fall

* Prerequisite(s): University Advanced Standing; GEOG 1300 preferred

Focuses on the origins, growth, structure and function of cities. Examines social and political dimensions of urban life and the emergence of new urban spaces around the world. Includes case studies in the decline of urban industrial America and the rise of Sunbelt and Edge Cities.

GEOG 3150

Social Geography

3:3:0 On Sufficient Demand

* Prerequisite(s): (ENGL 2010 or ENGL 2020 or instructor approval) and University Advanced Standing

Takes a spatial approach to understanding society, premised upon the notion that geographic space and social relationships are inescapably linked. Examines networks and relationships between individuals and groups at a number of scales, from interpersonal to global. Explores topics such as discrimination, segregation, poverty and homelessness.

GEOG 3250

Cultural Geography

3:3:0 On Sufficient Demand

* Prerequisite(s): (ENGL 2010 or ENGL 2020 or instructor approval) and University Advanced Standing

Explores the cultural landscape of the world's peoples. Describes the geographic complex of cultural forms including language, religion, music, art, architecture, folklore, food, clothing and land use. Topics include cultural conflicts, globalization, and the international entertainment industry.

GEOG 3400

Environmental Remote Sensing

3:2:3 Spring

* Prerequisite(s): (MATH 1050 or MATH 1055) and STAT 2040 and (PHYS 2010 or PHYS 2210) and (GEOG 3600 or GIS 3600); and an upper division course in natural science recommended; and University Advanced Standing

Introduces the history, theory, and operation of remote sensing software. Includes an introduction to the electromagnetic spectrum and signals, sensors, image processing, and classification techniques. Provides a survey of the concepts and techniques of remote sensing and image analysis for mapping and monitoring natural resources, environment and land use, and an array of geoscientific applications at different scales.

GEOG 3430

Political Geography

3:3:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Surveys the geographic dimensions of political action and theory at local, national and global scales. Covers topics such as geopolitics, nationalism, territoriality, and political conflicts. Examines subjects such as American electoral patterns, Cold War geographies, and 21st century global security.

GEOG 3500 (Cross-listed with: GEO 3500)

Geomorphology

4:3:3 Spring

* Prerequisite(s): MATH 1050 or MATH 1055 or equivalent, University Advanced Standing and one of the following lecture and lab pairs: (GEO 1010 and GEO 1015) or (GEOG 1000 and GEOG 1005)

Examines the geologic processes operating at the Earth's surface to understand the origin of our planet's varied landscapes. Explores how landforms respond to climate change, tectonic forcing, and changes in land use. Addresses common geomorphic processes including weathering, soils, hill slope processes, fluvial processes and landforms, aeolian transport, glacial and periglacial environments, karst, and coastal processes.

GEOG 3600 (Cross-listed with: GIS 3600)

Introduction to Geographic Information

Systems

4:3:3 Fall, Spring

* Prerequisite(s): [Completion of a course that meets the PP (Physical Science) or SS (Social Science) general education requirement is recommended] and University Advanced Standing

Introduces the history, theory, and operation of Geographic Information Systems (GIS). Includes an introduction to GIS data sources, database design, data input, spatial analysis, and map production. Offers valuable preparation for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Lab access fee of \$30 for computers applies.

GEOG 3650

Advanced Geographic Information Systems

4:3:3 Spring

* Prerequisite(s): GEOG 3600 and University Advanced Standing

Expands on GEOG 3600, Introduction to Geographic Information Systems (GIS), and reviews advanced GIS functions and applications to the sciences. Fundamental topics include spatial analysis, geostatistical analysis, 3-D modeling, and project development and implementation.

GEOG 3700

Wetland Studies

3:3:0 Fall

* Prerequisite(s): GEOG 1000 OR GEO 1010 OR ENVT 1110 OR BIOL 1010 OR CHEM 1110 OR Instructor Approval; and University Advanced Standing

Examines the structure and function of wetlands with emphasis on wetland biogeochemistry processes, soils, hydrology, flora and fauna, mitigation and restoration, policies and regulations. Explores research methods applied in wetland studies. Provides students with essential skills to critically evaluate wetland issues to make informed decisions. Prepares students to conduct research and communicate scientific information.

GEOG 3705

Wetland Studies Laboratory

1:0:3 Fall

* Prerequisite(s): GEO 1010 OR ENVT 1110 OR BIOL 1010 OR CHEM 1210 OR Instructor Approval; and University Advanced Standing
* Corequisite(s): GEOG 3700

Designed to be taken in conjunction with GEOG 3700. Applies techniques for sampling and mapping of wetland soils, plants, water, etc. and analyzes chemistry of wetland samples using modern instrumentation to address outstanding scientific questions related to wetlands. Addresses skills to interpret and present scientific data. Normally includes field trips.

GEOG 3800 (Cross-listed with: HIST 3800)

Environmental History of the United States

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Examines human modification of the American landscape. Surveys the physical geography of the United States, landscape change during Native American to European transition, and causes of agricultural and industrial pollution. Topics include land ethics, processes of environmental degradation, technological remedies, history of federal laws and protection agencies. May include field experiences.

GEOG 4100

Geospatial Field Methods

3:2:3 Fall

* Prerequisite(s): (GEOG 3600 or GIS 3600) and MATH 1060; University Advanced Standing

Provides an introduction to measuring, recording, and finding geographic locations in the field using GPS and other methods widely used in industry and research. Applies GPS and other field techniques to scientific problems, and emphasizes hands-on experience with field equipment. Covers geographic reference frames, and integrates field data with desktop GIS software.

GEOG 482R

GIS Internship

1 to 3:0:5 to 15 On Sufficient Demand

* Prerequisite(s): (GEOG 3600 and GEOG 3650 or equivalent), department approval, declared major in any Earth Science program, and University Advanced Standing

Engages students in supervised GIS work in a professional setting. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation. May be graded Credit/No Credit.

GEOG 489R

Student Research in Geography

1 to 4:0:3 to 12 On Sufficient Demand

* Prerequisite(s): Junior or Senior standing, instructor approval, and University Advanced Standing

Provides the opportunity to conduct research under the mentorship of an Earth Science department faculty member. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original geographic research. Requires preparation and presentation of oral and/or written reports, typically presented in a public forum. May be repeated for a maximum of 4 credits toward graduation.

GEOG 490R

Special Topics in Geography

1 to 4:1 to 4:0 to 9 Fall, Spring

* Prerequisite(s): Instructor approval and University Advanced Standing

Explores or examines special topics in geography. Topics vary depending on student demand and current topics of significance in geography. May be repeated for a maximum of 4 credits toward graduation.

Course Descriptions

Geology (GEO)

GEO 1010 PP
Introduction to Geology
3:3:0 **Fall, Spring, Summer**

Studies planet earth: its materials, structure, dynamics, and surface features. Taken alone it is designed for non-science students who want a broad introduction to earth science and a greater appreciation of their physical surroundings. Taken in conjunction with laboratory exercises in GEO 1015, the class is sufficiently rigorous to articulate as an introductory geology class.

GEO 1015
Introduction to Geology Laboratory
1:0:2 **Fall, Spring, Summer**

Designed to be taken in conjunction with GEO 1010. Includes the identification of rocks, minerals, basic land forms and structures. Studies geologic processes occurring in desert, glacial, mountainous and other environments. Taken with GEO 1010, the class will articulate as an introductory earth science class. Course Lab fee of \$11 for transportation, lab applies.

GEO 101H PP
Introduction to Geology
3:3:0 **Fall, Spring**

Studies the structural and dynamic systems of the earth that create our environment. Stresses geology and related topics chosen for astronomy and meteorology. Course Lab fee of \$10 for transportation, lab applies.

GEO 1020 (Cross-listed with: BIOL 1200) PP
Prehistoric Life
3:3:0 **Spring**
* Prerequisite(s): BIOL 1010 or GEO 1010 recommended

Studies prehistoric life. Uses the concepts of biology and physical science. Studies major groups of ancient animals and plants as found in the rock record. Includes aspects and fundamental concepts of biology, ecology, and geology.

GEO 102H
Introduction to Geology Laboratory
1:0:2 **On Sufficient Demand**

Includes identification of basic land forms and structures. Studies the geologic processes occurring in desert, glacial, mountains, and other environments. Includes an extended outdoor activity to the Grand Canyon or Capitol Reef National Park. Course Lab fee of \$10 for transportation, lab applies.

GEO 1080 PP
Introduction to Oceanography
3:3:0 **Fall, Spring**

Introduces the origin and development of the oceans, marine geology and its effect on life in the seas. Discusses waves, tides, currents, and their impact on shorelines, the ocean floor, and basins. Examines physical processes as they relate to oceanographic concepts. Includes media as an alternative to the actual oceanic experience. Completers should have a basic knowledge and appreciation of the ocean's impact to the world's ecology.

GEO 1085
Introduction to Oceanography Laboratory
1:0:2 **Spring**

A basic laboratory experience in the physical aspects of Oceanography. Introduces applied skills in Oceanography such as Marine Geology and Oceanographic Chemistry. Studies the physical parameters that allow marine life to flourish. Uses maps to study the structure of the sea floor and its relationship to plate tectonics. Provides hands-on experiences with salinity and marine chemistry.

GEO 1220 PP
Historical Geology
3:3:0 **Fall, Spring**

Examines the origin and development of the Earth. Studies the succession of animals and plants from trilobites through dinosaurs and eventually to man himself, following the changing earth environment in the process. Designed for non-science students who desire an understanding of the history of the Earth. Taken in conjunction with laboratory exercises in GEO 1225, the class is sufficiently rigorous to articulate as an introductory earth science class.

GEO 1225
Historical Geology Laboratory
1:0:2 **Fall, Spring**

Designed to be taken in conjunction with GEO 1220. Identifies fossils in correlation with their paleoenvironments and geologic time periods. Illustrates and duplicates methodology of the science of historical geology. Taken with GEO 1220, the class will articulate as an introductory earth science class. Course Lab fee of \$10 applies.

GEO 202R (Cross-listed with: BIOL 202R)
Science Excursion
1:0:2 **Fall, Spring**

For students interested in the natural world. Explores a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of a minimum of a four-day field trip. Participants should gain an increased understanding of several fields of scientific study. Graded as credit/no credit. May be repeated as many times as desired for interest, however a maximum of 3 credits may count toward graduation.

GEO 204R (Cross-listed with: BIOL 204R) PP
Natural History Excursion
3:1:6 **On Sufficient Demand**

For students interested in the natural world. Promotes an in-depth look at a wide variety of topics in science, including geology, botany, astronomy, zoology, ecology, and archeology. Consists of 15 hours of lecture plus an appropriate field trip. Participants should gain an interdisciplinary understanding of science and nature.

GEO 2070
Natural History of the Colorado Plateau
3:1:4 **On Sufficient Demand**
* Corequisite(s): BIOL 2070

Addresses the geological component of the Natural History Course taught in conjunction with BIOL 2070 at the Capitol Reef Field Station during the summer months. Teaches students about the rocks and strata of the area, the processes that mold the landscape, and the relationships between the physical and biological aspects of the ecosystem, including humans. Provides an intense, hands-on field course where faculty and students participate together in a natural setting. Requires students to live and learn at the field station for most of the course.

GEO 3000
Environmental Geochemistry
3:3:0 **Fall**

* Prerequisite(s): GEO 1010, (MATH 1050 or MATH 1055), CHEM 1220, University Advanced Standing

Introduces low temperature, environmental geochemistry with a focus on the use of quantitative measures to understand surficial geologic processes. Includes equilibrium thermodynamics and kinetics of chemical reactions, aqueous solutions, sorption and complexation, oxidation-reduction reactions, organic geochemistry, and the chemistry of the continental, marine, and atmospheric environments. Numerous examples will be introduced to demonstrate how the conceptual framework can be applied in solving practical problems.

GEO 3080
Earth Materials
3:3:0 **Fall**

* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing; CHEM 1210 or other chemistry course recommended
* Corequisite(s): GEO 3085

Investigates the physical characteristics, chemical properties, formation, and distribution of geologically significant igneous and metamorphic rocks and minerals. Develops ability to examine rocks and minerals, and analyze their chemical properties to understand geologic processes. Involves field trips, including the possibility of weekend trips. Course Lab fee of \$22 for transportation, lab applies.

GEO 3085
Earth Materials Laboratory
1:0:3 **Fall**

* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing; CHEM 1210 or other chemistry course recommended
* Corequisite(s): GEO 3080

Focuses on identification and classification of common rocks and minerals in hand sample and introduces optical mineralogy and petrography. Investigates the occurrence and formation of common rocks and minerals through direct observation of their properties and occurrence. Involves field trips, including the possibility of weekend trips.

GEO 3100**Isotope Geochemistry****3:3:0****Spring**

* Prerequisite(s): (GEO 1010, CHEM 1220, or Instructor Approval) and University Advanced Standing

Provides an introduction to the principles and applications of isotope geochemistry, which plays an important role in a wide variety of geological, biological, and environmental investigations, and summarizes the analytical techniques used in the field. Examines the theory of radiometric dating and provides an overview of the most commonly used geochronometers. Focuses on stable isotopes with emphasis on oxygen, hydrogen, carbon, nitrogen, and sulfur and with applications in paleoclimatology, ecology and paleoecology, archeology, and hydrology.

GEO 3105**Isotope Geochemistry Laboratory****1:0:2****Spring**

* Prerequisite(s): GEO 1010, (MATH 1050 or MATH 1055), CHEM 1220 and University Advanced Standing

Explores the analysis and interpretation of real isotope data and provides hands-on experience in their use to solve problems and answer questions in geochronology, paleoclimatology, hydrology, and archaeology. Requires data analysis utilizing Microsoft Excel.

GEO 3200**Geologic Hazards****4:3:3****Fall**

* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing

Investigates the ways in which geologic hazards (including earthquakes, landslides, and volcanoes) impact civilization. Studies the causes of these hazards, how to assess whether each of these hazards is a concern at a particular site, and how each type of hazard can be planned for. Includes field-based exercises. Course Lab fee of \$16 for transportation, lab applies.

GEO 3400**Forensic Geology****4:3:3****On Sufficient Demand**

* Prerequisite(s): (CHEM 1210 and CHEM 1215 or higher) and University Advanced Standing

* Corequisite(s): CHEM 1220 and CHEM 1225 recommended

Provides a survey of the uses of geology in solving crime. Emphasizes actual criminal cases, hands-on laboratory activities, and critical observation skills. Covers mineral-forming processes in rock, soil, and sediment, and teaches minerals identification with a hand lens and microscope. Examines some or all of the following: mineral pigments related to art forgery and cosmetics; imitation amber and other gems; environmental pollution; and crimes in archeology. Serves as an introduction to trace analysis.

GEO 3500 (Cross-listed with: GEOG 3500)**Geomorphology****4:3:3****Spring**

* Prerequisite(s): MATH 1050 or MATH 1055 or equivalent, University Advanced Standing, and one of the following lecture and lab pairs: (GEO 1010 and GEO 1015) or (GEOG 1000 and GEOG 1005)

Examines the geologic processes operating at the Earth's surface to understand the origin of our planet's varied landscapes. Explores how landforms respond to climate change, tectonic forcing, and changes in land use. Addresses common geomorphic processes including weathering, soils, hill slope processes, fluvial processes and landforms, aeolian transport, glacial and periglacial environments, karst, and coastal processes.

GEO 3700**Structure and Tectonics****4:3:3****Spring**

* Prerequisite(s): GEO 1220, GEO 3080, (PHYS 2010 or PHYS 2210), and University Advanced Standing

Investigates the fundamentals of global plate tectonics and rock deformation. Includes applications to petroleum geology, environmental geology, and engineering geology. Explores geometric techniques of structural analysis in the laboratory. Involves field trips, possibly including weekend trips. Course Lab fee of \$21 for transportation, lab applies.

GEO 4080**Petrology****4:3:3****Spring**

* Prerequisite(s): GEO 3080, CHEM 1220, and University Advanced Standing

Intended for students pursuing graduate school in geology or a career in geology such as mining or petroleum geology. Examines mineral equilibrium in igneous, sedimentary, and metamorphic rocks as it pertains to the genesis of these rocks. Introduces students to techniques of petrographic microscopy. Surveys the use of analytical tools in researching igneous and metamorphic rocks, including the use of isotopes for dating and for tracing the origin of magma and the use of the electron microprobe for determining temperatures of metamorphism. Examines the diagenesis of sandstones.

GEO 4200 (Cross-listed with: BIOL 4200, CHEM 4200, PHYS 4200)**Teaching Methods in Science****3:2:2****Spring**

* Prerequisite(s): Acceptance into Secondary Education program, senior-level standing, instructor approval, and University Advanced Standing

Examines objectives, instructional methods, and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

GEO 4500**Sedimentary Geology****4:3:3****Spring**

* Prerequisite(s): GEO 3080, GEO 1220, GEO 1225, and University Advanced Standing; CHEM 1210 or other chemistry recommended

Exposes a great variety of topics encompassed within the broad field of sedimentary geology. Teaches knowledge of the origin and classification of the major groups of sedimentary rocks, as well as their spatial and temporal distribution as represented in the rock record. Describes the most fundamental stratigraphic principles. Course Lab fee of \$21 for transportation, lab applies.

GEO 4510**Paleontology****4:3:2****Fall**

* Prerequisite(s): GEO 1220, GEO 1225, GEO 3080, (BIOL 1010 or BIOL 1610), and University Advanced Standing; GEO 4500 recommended

Exposes students to a wide variety of topics encompassed within the field of paleontology. Offers substantial knowledge of the major groups of life represented in the fossil record. Discusses the most fundamental concepts in paleontology, such as key principles of evolution and paleoecology. Offers an understanding of what paleontologists do, why the field is so crucial, and why all earth scientists should have at least a basic understanding of paleontology. Requires two weekend field trips (dates will be discussed in class). Course Lab fee of \$21 for transportation, lab applies.

GEO 4600**Field Experience****4:0:12****Summer**

* Prerequisite(s): GEO 3080, GEO 3700, GEO 4500, and University Advanced Standing

An intensive field course giving students hands-on experience with several aspects of earth science field work. Involves field work for 8 to 10 hours per day, three to five days per week, for four to six weeks. Course Lab fee of \$500 for practical experience applies.

GEO 480R**Earth Science Seminar****.5:5:0****Fall, Spring**

* Prerequisite(s): (GEO 3080 or ENVT 3790 or Instructor Approval) and University Advanced Standing

Exposes students to current research topics in Earth Science and related fields. Provides an opportunity for students to attend bi-weekly lectures presented by department faculty and invited speakers. Lectures are usually a summary of the speaker's recent research results, or investigative projects in an earth science industry. May be repeated for a maximum of 2 credits toward graduation.

Course Descriptions

GEO 482R (Cross-listed with: ENVT 482R)

Geologic Environmental Internship

1 to 3:0:5 to 15 Fall, Spring, Summer

* Prerequisite(s): (GEO 1010 or ENVT 1110), (12 credit hours of any GEO, GEOG, or ENVT courses), declared major in any Earth Science program, and University Advanced Standing

Engages students in supervised geologic or environmental work in a professional setting. Requires approval by the Chair of the Department of Earth Science. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation. May be graded credit/no credit.

GEO 489R

Student Research

1 to 4:0:3 to 12 Fall, Spring, Summer

* Prerequisite(s): GEO 1015, Junior or Senior standing, instructor approval, and University Advanced Standing

Provides students the opportunity to conduct research under the mentorship of an Earth Science department faculty member. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original geologic research. Requires preparation and presentation of oral and/or written reports, typically presented in a public forum. May be repeated for a maximum of 8 credits toward graduation.

GEO 490R

Special Topics in Geology

1 to 4:1 to 4:0 to 9 On Sufficient Demand

* Prerequisite(s): GEO 1010, GEO 1015, Junior or Senior standing, instructor approval, and University Advanced Standing

Explores or examines special topics in geology. Topics vary depending on student demand and current topics of significance in geology. May be repeated for a maximum of 8 credits toward graduation.

GEO 495R

Independent Study

1 to 4:0:3 to 12 Fall, Spring, Summer

* Prerequisite(s): GEO 1010, GEO 1015, and University Advanced Standing

Requires an independent study program to be developed with one or more Earth Science faculty member and approved by a committee of Earth Science faculty. Includes some combination of literature review, field work, numerical analysis, and/or laboratory analysis. Involves the preparation of a written report. An oral presentation may also be required. May be repeated for up to 4 credits.

GEO 525R

Advanced Topics for Geology Teachers

1 to 5:1 to 5:0 to 10 On Sufficient Demand

* Prerequisite(s): Departmental Approval

For licensed teachers or teachers seeking to recertify their earth science or integrated science endorsements from the Utah State Office of Education. Teaches principles of geology and pedagogy of teaching geology for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

German (GER)

GER 1010

Beginning German I

4:4:1

Fall, Spring

LH

Provides an introduction to the language and culture of German-speaking countries. Emphasizes listening, speaking, reading, and writing skills along with basic grammar and vocabulary within the cultural context of modern German-speaking societies. Uses an eclectic method of instruction, with extra attention given to oral and written proficiency. Requires weekly lab. Lab access fee of \$10 applies.

GER 1020

Beginning German II

4:4:1

Fall, Spring

LH

* Prerequisite(s): Student should have equivalent knowledge of GER 1010

Provides a second-semester introduction to the language and culture of German-speaking countries. Emphasizes listening, speaking, reading, and writing skills along with basic grammar and vocabulary within the cultural context of modern German-speaking societies. Uses an eclectic method of instruction, with extra attention given to oral and written proficiency. Requires weekly lab. Lab access fee of \$10 applies.

GER 1110

German Conversation I

4:4:0

On Sufficient Demand

LH

A total immersion course taught in a classroom in a German speaking country. Students live in native, German-speaking homes or other total immersion environments. Practices creative language in conversation to develop proficiency in the German language at the novice level. Includes intensive listening and speaking experience to improve aural-oral proficiency. Students will attend cultural and sporting events. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 2700.

GER 115R

German Conversation I

1:1:0

Offers novice German speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

GER 2010

Intermediate German I

4:4:1

Fall, Spring

LH

* Prerequisite(s): Students should have equivalent knowledge of GER 1020

Reviews and builds upon the grammar, reading, writing and conversational skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the German speaking world, maintaining a focus on oral proficiency. Lab access fee of \$10 applies.

GER 202G

Intermediate German II

4:4:0

Spring

HH

* Prerequisite(s): Students need equivalent knowledge of GER 2010

Studies fourth-semester conversational German that is used in daily settings. Includes culture study, pronunciation, reading, and grammar. Emphasizes conversation in real life situations. Uses field trips and guest lecturers. Prepares students to enter the advanced level of German. Completers should be able to converse enough to visit or work in a German speaking country. Lab access fee of \$10 applies.

GER 215R

German Conversation II

1:1:0

* Prerequisite(s): Students should have equivalent knowledge of GER 1020

Offers lower division / novice German speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

GER 2700

Immersion German Civilization and Culture

4:4:0

On Sufficient Demand

LH

A total immersion course of classroom study and experience in a German speaking country. Students will live in native, German-speaking homes or other total immersion environments. Includes classroom study, supervised travel of cultural interest, and attendance at various cultural and sporting events. Includes written response, journals, and examinations. Offered only with the Summer Study Abroad program. May be taken concurrently with GER 1110.

GER 3030
German Composition and Conversation

3:3:0
 * Prerequisite(s): (GER 202G or equivalent experience) and University Advanced Standing

Expands knowledge and skill base developed in lower-division courses with an emphasis in idiomatic expression in spoken and written German. Using authentic texts, students will learn to read, speak, and write with more precision and accuracy. Successful completion of this course will prepare students to participate fully in subsequent advanced courses.

GER 3050 **LH**
Advanced German

3:3:0 **Fall, Spring**
 * Prerequisite(s): GER 202G, one-year residency in German speaking country, or placement test

Designed for non-native German speakers who have lived in a German speaking country for at least one year and who would like credit for GER 101G, 102G, 201G, and 202G. The course includes a review of grammar and an introduction to German literature, art, music, and expository writing. Lab access fee of \$10 applies.

GER 3200 **LH**
Business German

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (GER 3050 or equivalent knowledge) and University Advanced Standing

For those who plan to pursue careers in international business or related fields, learn the business language for German, understand the German corporate culture, or plan to major or minor in German. Teaches German business terminology and prepares students to take the International German Business Certificate examination. Presents Germany's role in a global economy. Explores how students can effectively do business with German companies within the framework of German culture. Includes current materials dealing with today's issues. Will be taught entirely in the German language. Lab access fee of \$10 applies.

GER 351G
German Culture and Civilization

3:3:0
 * Prerequisite(s): GER 3050 and University Advanced Standing

Explores chronologically the cultural formation and development of German-speaking societies and cultures in Germany, Austria, Switzerland, and other German-speaking regions. Discusses the ethnic development and linguistic history of these societies and countries. Presentations and class instruction conducted entirely in German.

GER 380R
Topics in German Studies

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing

Explores a variety of subjects relevant to the study of German language, literature, history and culture. Engages students in critical analysis and discourse. Possible topics may include Medieval German literature, Weimar film, History of the German Language, current events in Germany, or the Holocaust. May be repeated for a maximum of 6 credits toward graduation.

GER 4200
Advanced Business German

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (GER 3200 or equivalent knowledge) and University Advanced Standing

For those planning to pursue the Bachelor of Science with an emphasis in International Business or related field. Traces in depth German business terminology, documentation, case studies and transactions. Reviews and builds upon the business terminology learned in German 3200. Prepares students to take the examination for the International Certificate of Business German (Pruefung Wirtschaftssdeutsch). Explores how students can effectively do business with German companies within the framework of German culture. Includes current materials dealing with today's issues. Taught entirely in German.

GER 4410
History of the German Language

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): GER 3050 and University Advanced Standing

Explores the history of the German language from its Indo-European roots to its present form today. Investigates the differences between the major families of Germanic languages and looks at examples of these languages in the literary record, with a focus on the direct predecessors of modern German, especially Old High German, Middle High German, and Early New High German. Introduces historical linguistics to understand the processes of change in terms of morphology, phonology, and syntax, and basic phonetics.

Geographic Information Systems (GIS)

GIS 2640
Geographic Information Systems and Surveying

2:2:0 **On Sufficient Demand**
 * Prerequisite(s): EGDT 2400, GEOG 3600

Presents geospatial data and modeling principles and techniques using raster and vector geoprocessing. Teaches Geovisualization and Geospatial information sources, digital terrain modeling, spatial data analysis, and mapping project implementation. Covers concepts of real property related to land registration and information systems and the value of maps for governance, commerce, and research of social and environmental systems regionally, nationally, and globally. Lab access fee of \$35 for computers applies.

GIS 3600 (Cross-listed with: GEOG 3600)
Introduction to Geographic Information Systems

4:3:3 **Fall, Spring**
 * Prerequisite(s): [Completion of a course that meets the PP (Physical Science) or SS (Social Science) general education requirement is recommended] and University Advanced Standing

Introduces the history, theory, and operation of Geographic Information Systems (GIS). Includes an introduction to GIS data sources, database design, data input, spatial analysis, and map production. Offers valuable preparation for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Lab access fee of \$30 for computers applies.

GIS 3620
Advanced GIS for Geomatics

3:3:0 **Spring**
 * Prerequisite(s): (GIS 3600 or GEOG 3600) and University Advanced Standing

Presents Geospatial data and modeling principles and techniques using raster and vector geoprocessing. Teaches Geovisualization and Geospatial information sources, digital terrain modeling, spatial data analysis, and mapping project implementation. Covers concepts of real property related to land registration and information systems and the value of maps for governance, commerce, and research of social and environmental systems regionally, nationally, and globally. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

GIS 3640
Thematic Mapping Environmental Impacts

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): GIS 2640 and University Advanced Standing

Analyzes ways to geographically visualize the impact of natural disasters, energy processes, human impacts, and other impacts on the environment. Reviews the regional and global interrelationships of land, water, and atmosphere to the environment. Involves producing a thematic global and regional mapping project(s) considering the environmental impacts or potential impacts as presented in this course. Lab access fee of \$35 for computers applies.

GIS 3650
Thematic Mapping Culture and Societies

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): GIS 2640 and University Advanced Standing

Focuses on thematic maps of human activity covering the major cultural regions of the world considering cultural, political, and economic environments. Presents various ways to cartographically depict sociological data such as; population, religion, language, migration, and industries, etc.. Involves producing a thematic global and regional mapping project(s) as presented in this course. Lab access fee of \$35 for computers applies.

Course Descriptions

Greek (GRK)

GRK 1010 LH
Beginning Ancient Greek I
4:4:0 Fall
* Prerequisite(s): ENGL 1010

Studies Ancient Greek language at the introductory level, focusing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

GRK 1020 LH
Beginning Ancient Greek II
4:4:0 Spring
* Prerequisite(s): GRK 1010

Continues study of the Ancient Greek language at the introductory level, focussing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

GRK 2010 LH
Intermediate Ancient Greek I
4:4:0 On Sufficient Demand
* Prerequisite(s): GRK 1020

Studies the Ancient Greek language at the intermediate level, focusing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

GRK 2020 HH
Intermediate Ancient Greek II
4:4:0 On Sufficient Demand
* Prerequisite(s): GRK 2010

Studies Ancient Greek language at the intermediate level, focussing primarily on Attic Greek. Centers on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek culture and thought.

GRK 3010
Readings in Ancient Greek
3:3:0 On Sufficient Demand
* Prerequisite(s): GRK 2020 and University Advanced Standing

Instructs students in the translation of selected Ancient Greek poetry and prose.

History (HIST)

HIST 1500 SS
World History to 1500
3:3:0 Fall, Spring, Summer

Serves as an introduction to pre-modern world civilization. Surveys cultural, economic, intellectual, and social history up to the year 1500, with special attention to the rise of world religions.

HIST 151G SS
World History from 1500 to the Present
3:3:0 Fall, Spring, Summer

Serves as an introduction to modern world civilization. Surveys cultural, economic, intellectual and social developments from 1500 to the present. Emphasizes global, comparative, and intercultural issues.

HIST 1700 AS
American Civilization
3:3:0 Fall, Spring, Summer

Stresses movements and developing institutions that are important for an appreciation of American History from the Pre-Columbian period to the present. Discussions include analysis of developing political, economic, and social institutions and their interrelationships with, and impact upon, the geographical features of the land. Includes book reports, oral response, research papers, media presentations and applications to current events.

HIST 170H AS
American Civilization
3:3:0 On Sufficient Demand

Stresses movements and developing institutions that are important for an appreciation of American History from the Pre-Columbian period to the present. Discussions include analysis of developing political, economic and social institutions and their interrelationships with and impact upon the geographical features of the land. The honors section extends the course's historical inquiry with additional written and reading requirements which will allow the student a fuller participation in historical debate and the process of "doing" history.

HIST 1740 AS
US Economic History
3:3:0 Fall, Spring

Studies economic development in America, with emphasis on resources, commerce, agriculture, capital, manufacturing, government, and labor organizations.

HIST 204G
Colonial Latin America
3:3:0 Fall

Introduces the history of Latin America from the earliest New World inhabitants through the nineteenth-century Latin American Wars for Independence. Analyzes the social, political, economic, and cultural developments of Latin America. Explores the complex dynamics that shaped pre-Columbian and colonial societies which culminated in early nineteenth-century independence movements.

HIST 205G
Modern Latin America
3:3:0 Spring

Introduces the history of Latin America from 1820 to the present. Focuses on the key issues and themes of the last 190 years including social revolution, dependency and foreign intervention, gender and race. Includes case studies from specific countries.

HIST 2700 AS
US History to 1877
3:3:0 Fall, Spring, Summer

Surveys the origins of the United States from the Pre-Columbian era and early colonization through Reconstruction. Focuses on encounters among indigenous, African and European peoples; gender, race, and Atlantic slavery; the causes and consequences of the American Revolution; the westward expansion of the United States; and the sectional crisis that led to the American Civil War.

HIST 270H AS
US History to 1877
3:3:0 On Sufficient Demand

Examines the first half of the American experience, beginning with the Paleo-Indian cultures through Post-Civil War Reconstruction. Surveys social, political, cultural, and diplomatic developments throughout this period.

HIST 2710 AS
US History since 1877
3:3:0 Fall, Spring, Summer

Surveys the making of a modern United States, beginning with the promises and failures of Reconstruction and concluding with contemporary American issues. Emphasizes diverse American experiences at the intersections of race, gender, and class while tracing social, cultural, political and diplomatic developments during this period.

HIST 271H AS
US History since 1877
3:3:0 On Sufficient Demand

Examines the second half of the American experience, beginning with the collapse of Post-Civil War Reconstruction and concluding with contemporary American issues. Surveys social, political, cultural, and diplomatic developments during this period. The honors section extends the course's historical inquiry with in-depth discussions and additional written and reading requirements, all of which allow the student a fuller participation in historical debates and the process of "doing" history.

HIST 290H
Independent Study
1:1:0 On Sufficient Demand
* Prerequisite(s): Honors Director Approval

Provides independent study for Honors students unable to secure a desired class within regular semester curriculum offering. Involves designing and completing readings and other projects at the lower-division level in cooperation with the Honors director. Maximum of 3 credits may be applied toward Honors graduation.

HIST 290R
Independent Study
1 to 4:1 to 4:0 On Sufficient Demand
* Prerequisite(s): Dean and/or Department Chair approval

Provides independent study for students unable to secure a desired class within regular semester curriculum offering. With approval of dean and/or department chair, student and instructor design and complete readings and other projects at the lower-division level. Maximum of 6 credits may be applied toward graduation.

HIST 3010

The Historians Craft

3:3:0 **Fall, Spring**

* Prerequisite(s): HIST 1500, HIST 151G, HIST 2700, and HIST 2710 and University Advanced Standing

Foundational course builds upon information and library literacy skills, primary and secondary sources research, analysis, and writing skills introduced in lower division courses to prepare students for Junior/Senior level coursework. Teaches the craft of History, develop and hone skills in the areas of historical methodology, historiography, and theory, formulate interpretations based on evidence, and present their findings in accordance with professional standards. Prerequisite for all 3000 and 4000 level History courses.

HIST 3020

Introduction to Public History

3:3:0 **On Sufficient Demand**

* Prerequisite(s): HIST 3010 or Instructor Approval; University Advanced Standing

Introduces the discipline of public history, including its methodology and literature. Exposes students to the major fields in public history, and identifies career opportunities. Covers the tools of public history, such as archives, special collections, oral histories, photographs, documents, journals, museum exhibitions, and many types of preservation and conservation techniques. Teaches skills such as analyzing, interpreting, and communicating historical data. In addition, discusses the professional and ethical dimensions of public history.

HIST 3030

Introduction to African History

3:3:0 **Fall**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Surveys African history since the sixteenth century: traditional societies, the slave trade, European colonialism, the struggle for independence, underdevelopment, and the challenge of globalization.

HIST 3110

Greek History

3:3:0 **Fall**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Explores historical and geographical context of Greece from 1600 B.C.E. to the Roman conquest in 30 B.C.E. spanning Minoan, Mycenaean, Hellenic, and Hellenistic ages. Examines the development of social/cultural, political, and economic institutions emphasizing their influence on Western civilization and our own cultural context.

HIST 3130

Roman Republic

3:3:0 **Fall**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Covers the development of Rome and Italy from prehistory through the end of the Republic in first century B.C. Surveys social, cultural, political, economic and military aspects of Republican Rome. Examines the influence of Rome on Western Civilization. Part of a two semester sequence on Roman history. Each semester may be taken independently.

HIST 3140

Roman Empire

3:3:0 **Spring**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing.

Covers Roman history from the first century B.C. to the fourth century A.D. Surveys social, cultural, political, economic and military aspects of the Roman Empire. Examines the influence of Imperial Rome on Western Civilization. Part of a two semester sequence on Roman history. Each semester may be taken independently.

HIST 3150

Medieval Europe

3:3:0 **On Sufficient Demand**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Introduces the history of Europe from the collapse of Greco-Roman civilization to the fifteenth century. Covers the rise of Western Christendom, the challenge of Islam, the twelfth-century renaissance, the flowering of medieval art, education and literature, feudalism and rural economies, the commercial revolution, human and ecological calamities. Considers the medieval foundations of modern European culture, politics, and society.

HIST 3160

Renaissance and Reformation Europe 1350 to 1600

3:3:0 **Spring**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Explores European history from the rise of modern Humanism, in the fourteenth century, to the religious conflicts of the sixteenth century. Studies the Italian Renaissance, the spread of Italian cultural influence throughout Europe, the European discovery of the Americas and voyages around the globe, the Protestant Reformation and Catholic Counter Reformation, and the social and economic transformations of the early modern period.

HIST 3170

Absolutism Enlightenment and Revolution Europe from 1600 to 1815

3:3:0 **Fall, Spring**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Explores the major political, social and intellectual developments in European history from the Age of Absolutism to the French Revolution.

HIST 3180

Nineteenth Century Europe

3:3:0

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Analyzes transformations in political, economic, and social ideologies of Europe in the 19th century. Studies primary documents on a variety of ideologies. Includes active class participation and discussion, and much writing in areas agreed upon between instructor and student.

HIST 3190

Twentieth Century Europe

3:3:0 **On Sufficient Demand**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Surveys major forces, events and experiences that have shaped Europe and defined its place in the contemporary world. Examines industrialization, nationalism, colonial empires, world wars, Cold War polarization, and European Union.

HIST 320G

Women in American History to 1870

3:3:0 **On Sufficient Demand**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Surveys women's experiences in America from the pre-Columbian era to 1870. Emphasizes ways in which race, ethnicity, and class shaped females' experiences.

HIST 320R

Issues and Topics in Global History

3:3:0 **On Sufficient Demand**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Surveys specific global issues or topics at the Junior/3000-level. May be repeated for a maximum of 6 credits toward graduation.

HIST 321G

Women in American History since 1870

3:3:0 **On Sufficient Demand**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Surveys women's experiences in American culture from 1870 to the present. Emphasizes ways in which race, ethnicity, and class shaped women's experiences.

HIST 322G

History of the American West to 1850

3:3:0 **Fall**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Surveys the development of the American West from the pre-Columbian era to 1850 that places the West in both a national and North American context. Includes topics such as pre-contact cultures, Indian-European relations, exploration, colonization, conquest, territorial expansion, resource exploitation, as well as an examination of economic, political, social, and cultural developments that created a distinct regional identity.

HIST 323G

History of the American West since 1900

3:3:0 **Spring**

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Comparative survey of the development of the American West from 1850 to the present. Emphasizes key issues such as cultural encounters in the West, economic development, urban growth, rural life, the politics of race, ethnicity, class and gender, environmental change, the role of the federal government, and the cultural symbolism of the American West.

Course Descriptions

HIST 3260

History of Utah

3:3:0 Fall, Spring, Summer

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys the history of Utah and its peoples from prehistoric times to the present, covering cultural, social, economic, political, and religious topics, and places it within regional and national contexts. Can be used for teacher education and recertification requirements.

HIST 3320

Modern Britain

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys major themes in British history from the Glorious Revolution to the end of the 20th century.

HIST 3440

The History of World War I

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Explores the numerous factors leading to, sustaining, and concluding World War I, including military developments, diplomacy, and political and economic rivalries. Discusses various battles and campaigns of the conflict, the experience of the average soldier, the crumbling of old governments, and the beginnings of modern genocide.

HIST 345G

The History of World War II

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Deals with background and causes, course, conduct, and consequences of World War II in Europe and Asia, with special attention to strategy, tactics, diplomacy, and politics.

HIST 3540

History of South Africa

3:3:0 Summer

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Explores the history of South Africa from first peoples to the present, with special attention to twentieth-century developments. Topics include Khoisan and Bantu societies, Dutch settlement at the Cape of Good Hope, British colonization, the Zulu kingdom, the Great Trek, British-Boer conflict, the mining economy, Union, segregation and Apartheid, and the struggle for non-racial democracy. For history and integrated studies majors, and other students interested in world history.

HIST 3650

Imperial Russia--Autocracy to Opposition 1696-1917

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Presents the evolution of Russian economics, politics, and society between c. 1696 and 1917. Focuses on such movements and events as the Enlightenment in Russia, constitutionalism, bureaucratization, industrialization, and revolutions.

HIST 366G

The History of Modern Russia--1864 to Present

3:3:0 Spring

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys the history of Imperial Russia, the Soviet Union, and Russia from 1864 to the present, with special attention to Russia's politics, economics, and society.

HIST 367G (Cross-listed with: RUS 367G)

History of Russian Film

3:2:2 On Sufficient Demand

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Studies Russian cinema within the historical, cultural, thematic, and aesthetic context.

HIST 371R

Issues and Topics in American History

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys specific American history issues or topics at the Junior/3000-level. May be repeated for a maximum of 6 credits toward graduation.

HIST 3730

American Origins to 1790

3:3:0 Fall

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys the origins of the United States from the Pre-Columbian era and early colonization through the Early Republic. Focuses on adaptation and transformations of Native, African and European peoples; the causes and consequences of the American Revolution; the US Constitution, and the search for a national identity.

HIST 3731

U.S. History-Early Republic through the Progressive Era

3:3:0 Spring

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys United States history thematically and focuses upon social, cultural, economic, and political movements. Includes topics such as the New Republic, slavery, westward expansion, sectionalism, the Civil War and its aftermath, immigration, reform, and the development of modern culture.

HIST 3732

U.S. History-Progressive Era to the 21st Century

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys social, cultural, political, and economic movements and turning points in the U.S. from Progressivism through the 21st century. Builds an inclusive, multicultural narrative for various topics including reform and radical movements, wartime crucibles, the U.S. and the world, inclusion and exclusion in U.S. history, and the construction of a present-day U.S.

HIST 3740

American Revolution

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Examines origins, progress, and consequences of the American Revolution. Focuses on social effects of the War for Independence, creation of republican governments, and the U.S. Constitution. Addresses the search for stability at home and security abroad, and the development of a national identity.

HIST 3745

Civil War and Reconstruction

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Describes forces at work in the antebellum period that led to sectionalism and eventually to civil war. Examines military, political, social, economic, and racial issues before, during, and after the war. Analyzes the painful period of Reconstruction and its historiography.

HIST 3800 (Cross-listed with: GEOG 3800)

Environmental History of the United States

3:3:0 Spring

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Examines human modification of the American landscape. Surveys the physical geography of the United States, landscape change during Native American to European transition, and causes of agricultural and industrial pollution. Explores land ethics, processes of environmental degradation, technological remedies, history of federal laws and protection agencies. May include field experiences.

HIST 382G

Indians of Eastern North America

3:3:0 On Sufficient Demand

* Prerequisite(s): Sophomore Standing and University Advanced Standing

Surveys the histories of native communities of Eastern North America from the pre-Columbian period to the present. Includes the diversity of cultures in this region; encounters in the colonial period with France, England, and Spain, and the geopolitics of Native-White relations; the role of native communities in the American Revolution; resistance movements and leaders, such as Tecumseh; Indian Removal; the role of native communities in the Civil War; land loss in the 19th and 20th centuries; cultural survival; and modern economic development.

HIST 400R

History Practicum

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Provides instruction and experience in specific subdisciplines such as business history, family history, historic preservation, local history and oral history. Topic varies each semester. May be repeated once for a maximum of 6 credits toward graduation as long as course topic is substantially different than previous class.

HIST 4100

Jewish History

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys the history of the Jewish people from the Biblical period to the present. Analyzes Jewish cultural and religious contributions to world history. Examines religious and political Zionism leading to the establishment of the State of Israel.

HIST 4130

Anti-Semitism and the Holocaust

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Analyzes the rise of "advanced" anti-semitism in the late 19th and early 20th century and the factors that contributed to the mass destruction of Jews. Also analyzes how the same racial ideas that furthered anti-semitism were used against Gypsies, Slavs, and other "subhumans." Students take part in active discussions and oral presentations, and will write analytical papers on topics of their choosing.

HIST 4140

Genocide in the Twentieth Century

3:3:0 Fall

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Explores and analyzes the major genocides of the twentieth century: the Armenian Massacre, the Holocaust, the Killing Fields of Cambodia, the Balkan genocides, and the Rwandan genocide. Promotes a greater understanding of why and how genocides occurred in the twentieth century. Teaches and improves critical thinking, writing, and comprehension skills and develops additional skills in using comparative history, historiography, and primary and secondary sources.

HIST 4170

The USSR Under Stalin

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Explores and analyzes the economic, social, and political aspects of Stalin and Stalinism in the Soviet Union. Covers topics such as increasing centralization, the Great Purges, World War II, the Cold War, and post-Stalin reforms. Uses novels and primary documents extensively.

HIST 420R

Issues and Topics in Global History

3:3:0 Fall, Spring

* Prerequisite(s): HIST 3010 or instructor approval; and
University Advanced Standing

Surveys a specific topic in Global History. Topic varies each semester. A maximum of 6 credits may be applied toward graduation.

HIST 4250

Teaching History in the Secondary

Curriculum

3:3:0 Fall, Spring

* Prerequisite(s): Admission to Professional Education Program, (EDSC 4550 or instructor approval), and
University Advanced Standing

For students majoring in secondary education. Examines teaching methodology as related to teaching history and learning teaching strategies to prepare students for secondary education certification. Utilizes various group projects, classroom exercises, and an actual teaching project at the end of the semester. Evaluated by participation, teacher evaluation, written evaluation, exams, personal journal, and a final teaching project.

HIST 430G

Violence and Social Conflict in Latin

America

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Examines impact of violence and social conflict in Latin American society. Covers from Ancient Native American cultures to the present.

HIST 4320

History of Scientific Thought

3:3:0 Fall

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Explores development of Western scientific context from 6th century B.C. Greece to modern times. Emphasizes how our understanding of nature is influenced by a scientific approach. Examines technological impact of science on our lives.

HIST 4330

Machines in the Making of History

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys the development of modern technology with special reference to the Industrial Revolution of the nineteenth century and the Information Revolution of the twentieth. Weekly case studies focus on major innovations which have helped shape the modern world. Completing students should better appreciate the interaction technology change as a historical phenomenon.

HIST 435R

Issues and Topics in the History of Science

3:3:0 Spring

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys a specific topic in the History of Science. Topic varies each semester. May be repeated once for credit as long as course topic is substantial different than previous class.

HIST 461G

Peoples of the Atlantic World 1450-1800

3:3:0 Spring

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Offers an introduction to the main themes and issues of the early Atlantic world and the field of Atlantic History, from the angle of intercultural relations and social/political productions. Examines in depth the encounters, exchanges, and clashes between Africans, Europeans, and Native Americans through the life experiences of the peoples who lived "between cultures," such as interpreters, mariners, missionaries, creoles, etc. Encourages reflection about the modern legacies of the colonial period and issues of multiculturalism and post-colonialism.

HIST 463G

Missions and Conversion in Early North

America

3:3:0 Fall

* Prerequisite(s): (HIST 2700 or HIST 3730) and (ENGL 2010 or ENGL 2020 with a grade of C+ or higher, or instructor approval) and University Advanced Standing

Examines in a comparative perspective various European religious missionary enterprises in North America and their reception among Indians from the seventeenth century through the antebellum period. Surveys the origins, doctrines, methods, and changes over time of the Jesuit, Franciscan, Moravian, Puritan, and other Protestant missions, emphasizing the international and multicultural aspects of the missionary landscape in early America. Addresses the ways in which various Native American groups and individuals responded to these European missionary efforts.

HIST 466G

Legacies and Reckonings in the American

West

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Interdisciplinary survey of key theories and issues in the American West. Examines the diverse experiences of peoples and cultures in the West, the cultural symbolism of the American West, different cultures' interactions/relationships with the environment, and the role of myth in the formulation of regional identity.

HIST 471R

Special Issues and Topics in American

History

3:3:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval;
University Advanced Standing

Surveys a specific topic in American History. Topic varies each semester. May be repeated once for credit as long as course topic is substantially different than previous class.

Course Descriptions

HIST 482R

Public History Internship

2 to 9:1:4 to 32 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval and University Advanced Standing

Provides opportunities for internship experience in public history organizations, including, but not limited to, museums, archives, manuscript collections, federal, state, local, and private historical sites, and governmental and non-governmental history organizations. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

HIST 490R

Independent Study

1 to 4:1 to 4:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Provides independent study for students unable to secure a desired class within regular semester curriculum offering. With approval of dean and/or department chair, student and instructor design and complete readings and other projects at the upper-division level. A maximum of six credits may be applied toward graduation.

HIST 491R

Directed Readings

2 to 4:2 to 4:0 On Sufficient Demand

* Prerequisite(s): HIST 3010 and instructor approval; University Advanced Standing

Allows students to work intensively with faculty to deeply explore specific topics that are not normally offered in the two-year cycle of the History Program. May be repeated for a maximum of 4 credits toward graduation.

HIST 4980

Senior Research Thesis Research Component

3:3:0 Fall

* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

First half of the capstone experience for Majors. Requires students to work with a faculty member in a directed and extensive research and writing project. Topics vary according to thesis director. Honors students should consult Honors Program for thesis options.

HIST 4990

Senior Research Thesis Writing Component

3:3:0 Spring

* Prerequisite(s): HIST 4980 and Senior Standing in History and University Advanced Standing

Second half of the required capstone experience for History Majors. Student continues to work on and complete the extensive research, analysis, and writing project developed in Hist 4980 under faculty direction. Honors students should consult Honors Program for thesis options.

Community Health (HLTH)

HLTH 1100

Personal Health and Wellness

2:2:0 Fall, Spring, Summer

Examines the challenges to individual and community health, and encourages students to become actively engaged in preserving, protecting, and promoting health at all levels. Develops a greater appreciation for bodies and understanding of requirements to maintain or achieve good physical, mental, emotional, social, and spiritual health. Includes lecture, discussion groups, guest lecturers, media, and role-playing.

HLTH 1200

First Aid

2:2:0 Fall, Spring, Summer

For allied health professions such as nursing, community health, gerontology, radiology, physical therapy, sports medicine, and for other students and community members. Structured to meet National Safety Council First Aid requirements. Successful completers will be certified in First Aid and CPR. Includes lectures, lab with hands-on experience with mannequins, audiovisuals, discussions, and field trips. Provides emergency first aid care training.

HLTH 1300

Medical Terminology I

2:2:0 Fall, Spring, Summer

Helps students read and understand the language of medical terminology. Stresses terminology usage and accuracy. Studies elements, abbreviations, spelling, pronunciation, and logic of medical terminology. Includes lectures and audiovisual presentations. Canvas Course Mats \$82/Pearson applies.

HLTH 2000

Body Image Self-Esteem and Weight Management

3:3:0 Fall, Spring

Provides students with the information and tools necessary to understand and manage eating habits, body size, and self-esteem concerns in a healthy way.

HLTH 2200

Introduction to Health Professions

2:2:0 Fall

For students planning to major in a health related field. Examines the historical and continuing evolution of health care. Explores work description, environment, employment opportunities, education, expectations, legal requirements, and expected earnings of each covered health profession. Focuses on, but not limited to medicine, dentistry, nursing, community health, optometry, respiratory care, dental hygiene, physical therapy, and social work.

HLTH 2400

Concepts of Stress Management

3:3:0 Fall, Spring

For those interested in developing skills and techniques necessary to work with clients in stress reduction programs. Includes identifying, managing, and eliminating stress in individuals, families, and communities. Examines effects of stress on the immune, endocrine, and nervous systems and the relationship to disease. Teaches stress reduction application and methods in wellness and health care settings.

HLTH 2510

Media and Computer Applications in Health

3:3:0 On Sufficient Demand

Introduces students to computer-based methods for accessing, analyzing, and communicating health-related information. Explores the relationship between mass media and health promotion and the key elements in the development of successful health communication campaigns.

HLTH 2600

Drugs Behavior and Society

3:3:0 Fall, Spring, Summer

For students interested in drug abuse prevention. Studies substance mis-use and abuse. Discusses addictive behaviors, dependence, and treatment modalities. Examines common substances of abuse and dependence and effects upon individuals and society. Investigates the use of psychotherapeutic drugs in the treatment of mental illness. Promotes awareness of personal and social decisions concerning drugs, behaviors, and habits.

HLTH 2800 (Cross-listed with: PSY 2800)

Human Sexuality

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010

Interdisciplinary course in human sexuality, exploring topics in biology, health, psychology, and sociology. Introduces basic concepts of human sexuality, including anatomy, reproduction, and sexual response across the life-cycle. Studies gender roles, sexual orientation, dysfunction, and sexually transmitted disease. Examines sexual behavior from the perspective of ethics, religion, the law, and education. Students assess their sexual attitudes and should be able to make responsible sexuality decisions.

HLTH 289R

Undergraduate Research

1 to 3:0:5 to 15 On Sufficient Demand

* Prerequisite(s): Instructor/departmental permission

Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the community health/health administration discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

HLTH 3000 **SS**

Health Concepts of Death and Dying
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): University Advanced Standing

Examines information and data pertaining to death in the United States. Discusses historical and cultural perspectives of death, causes of death, definitions of death, stages of dying, bereavement, the will to live, legal and ethical issues, euthanasia, and suicide. Focuses on attitudes and values of Americans concerning death. Studies ways to work with and relate to dying individuals and their families.

HLTH 3100
Health Education for Elementary Teachers
2:2:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing

For Elementary Education majors. Emphasizes the role of the teacher as a health educator and team member in providing a healthy school environment. Studies the basic Utah health core curriculum. Develops learning activities applicable to the health needs of the elementary school student.

HLTH 3160
Health Care Law
3:3:0 **Spring**
 * Prerequisite(s): University Advanced Standing

Explores impact of laws, regulations, social policies on management and delivery of health care. Includes provider liability, managed health care contracts, HIV-related concerns, assisted suicide, and other issues.

HLTH 3200
Principles of Community Health
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): University Advanced Standing

For students in health and behavioral sciences who wish to work in community health settings. Presents the role and function of various community health services and agencies and how they interface. Examines health care models and agencies, health care reform, health objectives for the nation, and health planning and promotion. Explores life style risk reduction, environmental issues, ethical health issues, and other appropriate topics. Includes lecture, videos, class discussion, student presentations, and outside assignments.

HLTH 3220
Foundations of Health Education
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): University Advanced Standing and matriculation into BS Community Health or BS School Health Education

For students interested in a community health career. Examines the history and role of health education in today's society. Covers the philosophical principles and models utilized in the delivery of health education. Analyzes types of health information available in health journals and on the internet. Introduces the major health associations and describes the competencies necessary for certification as a Health Education Specialist.

HLTH 3230
Professional Development for Community Health
2:2:0 **Fall, Spring, Summer**
 * Prerequisite(s): Matriculation into BS Community Health or BS School Health Education and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): HLTH 3200

Provides students with preparation for a Community Health internship, first job, or graduate school.

HLTH 3240
Womens Health Issues
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): HLTH 1100 or PES 1097 and University Advanced Standing

For students in various health care professions. Reviews important dimensions of a woman's health and examines the contributing epidemiological, historical, psychosocial, cultural/ethnic, legal, political, and economic influences. Focuses on women throughout their lifespan and incorporates the many factors that affect health and well-being. Stresses prevention, health promotion, research, clinical intervention, and public policy that form the interlocking basis when considering the different diseases, disorders, and conditions that afflict women. Provides a practical approach to examining and understanding health issues that are unique to women--all ages, races, socioeconomic strata, and cultures.

HLTH 3260
Theory-Based Approaches to Modifying Health Behavior
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): HLTH 3200, University Advanced Standing, and matriculation into BS Community Health, BS School Health Education, BS Nursing, or BS Dental Hygiene

For students interested in community and school health programs. Investigates holistic health and behavioral changes that can positively influence total human well-being. Discusses factors that impact personal health behavior. Focuses on behavioral change models and theories including planning, implementation and evaluation. Examines health counseling approaches, group process, and strategies related to specific health problems.

HLTH 3300
Health Promotion for Older Adults
3:3:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing

For students in health and behavioral sciences and other related fields who wish to work in gerontological settings. Examines health issues and problems of older adults. Addresses topics affecting older adults including: the aging process, chronic and infectious diseases, health care resources, and health promotion. Covers medication issues, long-term care, death and dying, and other related topics.

HLTH 3400 **BB**
Human Diseases
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): ZOOL 1090 and University Advanced Standing

For students interested in a Community Health option within the Integrated Studies Degree. Also for students interested or working in health care fields such as nursing, dental hygiene, etc. Introduces the study of human disease including general principles of disease and major diseases of body systems and organs. Applies genetic, behavioral and environmental issues to the study of human diseases.

HLTH 350G
International Health
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): University Advanced Standing

Provides knowledge regarding the various health issues that affect people around the world. Focuses on the role of culture, ethnicity, country of origin, politics, and gender on health. Examines the importance of cultural sensitivity and competence when attempting to eradicate public health concerns.

HLTH 3600
Social Marketing
3:3:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing

Teaches how to promote social changes to the consumer. Teaches packaging, positioning and framing of programs to appeal to more salient, powerful, and influential core values: freedom, independence, autonomy, control, fairness, democracy, and free enterprise. Discusses marketing principles, planning, implementing, and evaluation of public health programs, strategic planning, social change theory, and case studies.

HLTH 3700
Grant Writing
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): University Advanced Standing and matriculation into BS Community Health or BS School Health Education

Provides students with the needed knowledge and skills for community health grant writing. Teaches the major elements of grant writing including the identification of grant sources, writing grant proposals, and preparation of budgets and timelines.

HLTH 3750
Biostatistics for Public Health
3:3:0 **Fall, Spring**
 * Prerequisite(s): STAT 1040 or STAT 1045, Matriculation into Community Health BS, School Health BS, or Nursing BS program and University Advanced Standing

Introduces use of statistics for research purposes in the fields of public and community health. Teaches descriptive and inferential statistics. Includes central tendency, variability, correlation and regression, probability, and various inferential techniques such as t-test for independent and dependent samples, one-way and two-way analysis of variance, post-hoc tests, and non-parametric statistical tests.

Course Descriptions

HLTH 3800

Epidemiology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): HLTH 3400, University Advanced Standing, and matriculation into BS Community Health or BS School Health Education

Introduces epidemiologic principles and methods. Examines the historical and theoretical bases of epidemiology; statistical methods; distribution of disease over person, place, and time; research methods utilized in epidemiology; and the application of epidemiology to the prevention of disease and the promotion of health.

HLTH 4100

Health Education Curriculum for Secondary Teachers

3:3:0 Fall

* Prerequisite(s): University Advanced Standing and matriculation into the BS School Health program

For secondary education majors. Emphasizes the role of the teacher as a health educator and team member in providing a healthy school environment. Examines comprehensive school health education and studies the basic Utah health core curriculum for secondary education. Develops learning activities applicable to the health needs of secondary education students.

HLTH 4140

Community Health Assessment and Program Development

3:3:0 Fall

* Prerequisite(s): HLTH 3200, HLTH 3220, University Advanced Standing, and matriculation into the BS Community Health

Intended for Community Health Education majors. Covers building a rationale, gaining support of stakeholders, selecting an appropriate model or theory, conducting a needs assessment, developing goals and objectives, and determining appropriate health education strategies. The first of two courses which will help students develop the skills to successfully begin the program planning process.

HLTH 4160

Program Implementation and Evaluation

3:3:0 Spring

* Prerequisite(s): HLTH 4140 and University Advanced Standing

Intended for Public and Community Health majors. Builds upon HLTH 4140 and develops the knowledge, skills, and abilities to conduct health program implementation and evaluation. Includes a systematic approach to the implementation and evaluation of health education programs.

HLTH 4200

Health Education Teaching Methods

3:3:0 Spring

* Prerequisite(s): HLTH 4100, University Advanced Standing and matriculation into BS School Health

For secondary education school health majors. Examines teaching methods, materials and techniques. Studies secondary education health curriculum, program planning, development, implementation, and evaluation. Students will develop lesson plans and present them in secondary education settings.

HLTH 4250 (Cross-listed with: POLS 4250)

Public Health Organization and Policy

3:3:0 Fall, Spring

* Prerequisite(s): HLTH 3200, University Advanced Standing, and matriculation into BS Community Health or BS School Health Education; or instructor approval

Focuses on U.S. health policy and policy analysis. Describes the basic machinery of policymaking and legal processes that underpin the individual health care and public health systems. Analyzes the fundamental problems and contemporary issues in health policy and teaches students how to properly develop and analyze health policy.

HLTH 4300

Community Health Ethics

3:3:0 Fall

* Prerequisite(s): University Advanced Standing & matriculation into BS Community Health

For students majoring in Community Health or Integrated Studies with a Community Health emphasis. Also for students interested or working in health-care fields such as nursing, dental hygiene, etc. Explores and interprets ethical codes of conduct as set forth by health professions and/or organizations. Emphasis will be given to the Code of Ethics for the Health Care profession. Examines various health care issues such as: health care allocation, health care costs, death and dying issues, patient rights, informed consent, confidentiality etc. Investigates conflicts arising from existing and evolving codes of conduct using case studies as an arena for discussion.

HLTH 440G

Health and Diversity

3:3:0 Fall, Spring

* Prerequisite(s): University Advanced Standing

Provides students with a specific set of skills and knowledge in cultural competence. Focuses on understanding the public health system, identifying one's own cultural biases, understanding biases regarding one's own cultural identity, and developing culturally competent approaches and tools. Enables students to be more effective public health professionals whether they work with diverse populations within the United States or in international settings.

HLTH 4500

Public Health Administration

3:3:0 Fall, Spring

* Prerequisite(s): University Advanced Standing and matriculation into BS Community Health

Gives individuals a working and practical look at numerous aspects of public health administration and leadership. Includes definitions of leadership, qualities of an effective leader, sources of power, time management, the planning and decision making process, three core functions of public health, social marketing strategies, as well as other timely topics related to the administration and practice of public health.

HLTH 4600

Research Methods for Community Health

3:3:0 Spring

* Prerequisite(s): University Advanced Standing, and matriculation into BS Community Health or BS School Health Education; or instructor approval.

Introduces research techniques, methodology, and designs. Examines the planning, organizing, and conducting of research studies for solving problems unique to community health. Includes literature review and research article critiques.

HLTH 4720

CHES Preparation

2:2:0 Fall, Spring

* Prerequisite(s): Department approval; University Advanced Standing; Senior standing

Provides an overview of the health education areas of responsibilities in preparation for the Certified Health Education Specialist national exam. For students in their last semester at UVU, planning to register and take the CHES exam in October or April. May be delivered online.

HLTH 482R

Community Health Internship

1 to 8:0:5 to 40 Fall, Spring, Summer

* Prerequisite(s): HLTH 3230, overall GPA of 2.75, University Advanced Standing, matriculation into BS Community Health and senior standing

Provides field experience and enhanced knowledge in community health services and education, under the preceptorship of an individual qualified by education and/or experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

HLTH 489R

Undergraduate Research

1 to 3:0:5 to 15 Fall, Spring, Summer

* Prerequisite(s): Instructor approval, departmental approval, and University Advanced Standing

Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the community health discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

HLTH 490R

Special Topics in Community Health

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Department Approval and University Advanced Standing

Explores and examines special topics related to community health issues and problems. May include community health topics such as AIDS/HIV, West Nile Virus, special drug and sexuality issues, obesity, suicide, teenage pregnancy and terrorism. May be repeated for a maximum of 6 credits toward graduation.

Hospitality Management (HM)

HM 1010

Introduction to Hospitality Industry

3:3:0 Fall, Spring

Designed for hospitality management majors and as elective credit for other business majors. Provides a basic understanding of the lodging and food service industry by tracing the industry's growth and development. Analyzes management's functions and responsibilities in such areas as administration, organization, communications, accounting, marketing, and human relations. Examines industry opportunities and future trends. Includes lecture, field trips, guest speakers, film, and tapes. Completers should have a knowledge of career opportunities and basic hospitality management principles. Lab access fee of \$32 for computers applies. Canvas Course Mats \$54/Wiley applies.

HM 1110

Culinary Basics

3:3:0

Designed for hospitality management majors and as elective credit for other business majors. Explains the techniques and procedures of quality and quantity food production. Studies the selection and preparation of major food products. Provides an extensive set of basic and complex recipes for practice. Includes lectures, lab, visits of guest chefs, and field trips. Completers should be prepared to enter the working field as a prep cook. Lab access fee of \$32 for computers applies. Course fee of \$150 for materials applies.

HM 1130

Hotel Operations I

3:3:0 Fall, Spring

Designed for hospitality management majors and as elective credit for other business majors. Presents a systematic approach to front office procedures by detailing the flow of business through a hotel beginning with the reservation process and ending with check-out settlement. Examines various elements of effective front office management, paying particular attention to planning and evaluating front office operation and to personnel management. Front office procedures and management are placed within the context of the overall operation of a hotel. Includes role play and computer simulations. Completers should be competent to be a beginning front desk clerk. Lab access fee of \$32 for computers applies.

HM 1180

Food and Beverage Management

3:3:0 Fall, Spring

Designed for hospitality management majors and as elective credit for other business majors. Studies management principles of menu planning, purchasing, storage, food and beverage production, service, and sanitation. Includes lecture, case studies, guest speakers, field trip and project. Completers should understand the basic structure of a hospitality unit and how management principles relate to a restaurant. Lab access fee of \$32 for computers applies. Canvas Course Mats \$54/Wiley applies.

HM 2500

Statistics for the Hospitality Industry

3:3:0

* Prerequisite(s): MAT 1030, STAT 1040, MATH 1050, or MATH 1090, or higher

Provides a step-by-step approach to gathering, analyzing, and using numeric market, operating, and financial data in the hospitality management industry. Hospitality/industry scenarios and hands-on exercises and labs are used to build student skills in data analysis as a platform to practice data-gathering and analysis for projects in business planning, market research, revenue management, or designing customer-employee satisfaction surveys. Canvas Course Mats \$72/Wiley applies

HM 281R

Cooperative Work Experience

2 to 9:1:5 to 40 Fall, Spring, Summer

* Prerequisite(s): Approval of School of Business Career and Corporate Manager

Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the College. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. A total of six credits may be applied toward graduation with a diploma or AAS degree and three credits toward Certificate programs. May be graded credit/no credit.

HM 2890

Industrial Work Experience

1 to 8:0:5 to 40 Fall, Spring, Summer

Designed for hospitality management majors as elective credit. Provides practical work experience in an actual restaurant, applying management theory in carrying out duties assigned by the manager/owner.

HM 296R

Hospitality Management Seminar

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Instructor/Department Chair Approval

Provides short courses, workshops, and special programs in hospitality management or culinary arts topics. Repeatable for up to three credits.

HM 297R

Independent Study

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Department Chair Approval

Offers independent study as directed in reading, in individual projects, etc., in the area of hospitality management or culinary arts at the discretion and approval of the department chair. May be repeated for up to 6 credits toward graduation.

HM 3020

Hospitality Managerial Accounting

3:3:0 Fall, Spring

* Prerequisite(s): ACC 2010 and University Advanced Standing

Presents managerial accounting concepts and explains how these concepts apply to specific operations within the hospitality industry. Utilizes lectures, demonstrations, and case studies in class. May be delivered online. Lab access fee of \$32 for computers applies.

HM 3050

Country Club Management

3:3:0

On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Provides a basic understanding of country club management with golf operations. Analyzes management's functions and responsibilities in such areas as administration, organization, communications, accounting, marketing, and human relations. Examines industry opportunities and future trends. Includes lectures, field trips, guest speakers, films, and tapes. Completers should have knowledge of career opportunities and basic hospitality management principles.

HM 3100

Hospitality Law

3:3:0

Fall

* Prerequisite(s): University Advanced Standing

Teaches rights and responsibilities that the law grants to or imposes upon a hotelkeeper, and illustrates the possible consequences of failure to satisfy legal obligations. Explains the issues surrounding the need for individualized security programs; examines a wide variety of security and safety equipment and procedures, and discusses guests safety. Presents a systematic approach to the legal issues affecting human resource management. Includes lecture, case studies, videos, and site visits. May be delivered online and/or hybrid.. Lab access fee of \$32 for computers applies. Canvas Course Mats \$54/Wiley applies.

HM 3150

Hospitality Finance

3:3:0

Fall, Spring

* Prerequisite(s): HM 3020 and University Advanced Standing

Presents the general conceptual framework for understanding and applying techniques of value creation for a hospitality firm. Includes risk and value, timing and value of cash flows, valuation and required rates of return, capital expenditure analysis, project valuation criteria, capital structure management, and financial markets. Introduces financial topics and practices application techniques. Includes lecture, demonstration, case studies, and guest speakers. May be delivered online. Lab access fee of \$32 for computers applies.

HM 3200 (Cross-listed with: MGMT 3200)

Global Tourism

3:3:0

Fall, Spring

* Prerequisite(s): (MKTG 2200 or ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies the history and future of tourism, the impacts (environment, culture, economy) of tourism, and tourist behavior. Includes lectures, case studies, field trips, and guest speakers. Completers should be sophisticated travelers and understand the nature of the world's largest industry and its impacts on society and national economies.

HM 3210 (Cross-listed with: MGMT 3210)

Convention and Events Management

3:3:0

Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Analyzes the meeting, convention, and events industry. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

Course Descriptions

HM 3390

Hotel Operations II

3:3:0 **Fall, Spring**

* Prerequisite(s): HM 1130 and University Advanced Standing

Overviews fundamentals of housekeeping management. Describes the management functions, tools, and practices required in today's lodging and institutional housekeeping departments. Provides students with information they need to successfully manage a physical plant and work effectively with engineering and maintenance. Includes lecture, role play, site visits, film, and tapes. Completers should have a basic understanding of housekeeping and facility management. Lab access fee of \$32 for computers applies.

HM 3640

Food and Beverage Controls

3:3:0 **Fall, Spring**

* Prerequisite(s): ACC 2010 and University Advanced Standing

Designed for hospitality management majors and as elective credit for other business majors. Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operating budget, income and cost control, menu pricing, and computer applications. Includes lecture and computer simulation. Completers should have a basic understanding of control functions within a hospitality unit and be familiar with computer control systems. Lab access fee of \$32 for computers applies. Canvas Course Mats \$54/Wiley applies.

HM 3710

Marketing of Hospitality Services

3:3:0 **Fall, Spring**

* Prerequisite(s): MKTG 2200 and University Advanced Standing

For hospitality management majors and as elective credit for other business majors. Provides basic knowledge and practical experience which will enable students to develop strategic marketing plans for hotel/motel properties. Focuses on practical sales techniques, proven approaches to selling to targeted markets, and advertising's role in sales. Includes lecture, role play, case studies, simulations and projects. Completers should be able to develop a marketing study of hospitality unit and understand marketing and sales techniques. Lab access fee of \$32 for computers applies. Canvas Course Mats \$54/Wiley applies.

HM 4150

Hospitality Revenue Management

3:3:0 **Spring**

* Prerequisite(s): ECON 1010 or ECON 2020, HM 3020, and University Advanced Standing
* Prerequisite(s) or Corequisite(s): HM 3710

Designed for Hospitality Management majors. Addresses the emerging revenue management process and the keys to effective revenue management planning. Explores how to develop, implement, and evaluate strategic management processes. May be delivered hybrid and/or online.

HM 4200

Event Planning

3:3:0

* Prerequisite(s): HM 3210 and University Advanced Standing

Introduces the event industry, its scope and responsibilities, and the multidimensional nature of an event experience. Develops needs assessment, feasibility studies, and project management techniques to help students understand events in greater detail. Explores the interaction between attendee and the environment that enhances the event experience. Provides experience managing food and beverage services, technical services, ancillary activities, and marketing for events.

HM 4550

Hospitality Strategic Management

3:3:0 **Spring**

* Prerequisite(s): HM 3710 and Matriculation into the Woodbury School of Business and University Advanced Standing.

Examines delivery of the organization's product or service. Includes investigative and production planning, scheduling of operations, allocation of resources, manpower and equipment decisions, inventory control, production planning, and quality. May be delivered online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$54/Wiley applies.

HM 481R

Internship

1 to 8:0:5 to 40 **Fall, Spring, Summer**

* Prerequisite(s): Approval of School of Business Career and Corporate Manager and University Advanced Standing

For Bachelor of Science Degree students in Business Management or Hospitality Management. Provides opportunities to apply classroom theory on the job. Allows students to work as employees in a job that relates to their careers while enrolled at the College. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. 3 credits may be applied toward a Bachelor of Science degree in Business Management; 6 credits may be applied to the Hospitality Management degree. May be graded credit/no credit.

HM 496R

Hospitality Management Seminar

1 to 3:1 to 3:0 **On Sufficient Demand**

* Prerequisite(s): Instructor/Department Chair Approval and University Advanced Standing

Provides short courses, workshops, and special programs in hospitality management. Repeatable for up to 3 credits.

HM 497R

Independent Study

1 to 3:1 to 3:0 **On Sufficient Demand**

* Prerequisite(s): Department Chair Approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, etc., in the area of hospitality management at the discretion and approval of the department chair.

Honors (HONR)

HONR 100R

Honors Colloquium

1:1:0

Fall, Spring

* Prerequisite(s): Current enrollment in Honors program

Limited to students accepted to the Honors Program. Includes experiential education activities and cohort-building academic experiences, cultural events, and research/service projects. Develops reflective writing abilities. May include readings, guest lectures, community/campus service and leadership projects, research groups, outdoor excursions, and attendance at fine arts performances. May be repeated for a maximum 4 credits toward graduation. Course fee of \$15 for tickets, rental applies

HONR 150R

Honors Housing Colloquium

1:1:0

Fall, Spring

* Prerequisite(s): Current enrollment in Honors program and receipt of Honors Housing Scholarship.

Limited to students currently receiving the Honors Housing Scholarship. Builds collegiate and adult life skills through cohort-based collaborative learning. Develops reflective and communication abilities. May include readings, guest lectures, community or campus service and leadership projects, outdoor excursions, and attendance at fine arts or sporting events. May be repeated for a maximum 4 credits toward graduation.

HONR 2000

Ancient Legacies

3:3:0

Fall, Spring

* Prerequisite(s): Current enrollment in Utah Valley University Honors program or permission of the instructor

Provides students with the opportunity to study selected great works in the history of ideas from an interdisciplinary perspective. Examines Ancient, Medieval, and early Renaissance thought through primary texts composed before 1500 C.E. Focus of the class determined by instructor, but must include at least one text written during each of these periods, and at least one non-Western text. Emphasizes close study of primary texts drawn from disciplines including, but not limited to, astronomy, physics, biology, literature, history, philosophy, and religion. Develops strong critical thinking, writing, and rhetorical skills.

HONR 2100

Modern Legacies

3:3:0

Fall, Spring

* Prerequisite(s): Current enrollment in Honors program or permission of the instructor

Provides students with the opportunity to study selected great works in the history of ideas from an interdisciplinary perspective. Examines Modern and Contemporary thought through primary texts composed after 1500 C.E. Focus of the class determined by instructor, but must include at least one text that adds diversity (for instance, in ethnicity, class, or gender). Emphasizes close study of primary texts drawn from disciplines including, but not limited to, astronomy, physics, biology, literature, history, philosophy, and religion. Develops strong critical thinking, writing, and rhetorical skills.

HONR 300R

Honors Interdisciplinary Seminar

1 to 4:1 to 4:0 to 3 On Sufficient Demand

* Prerequisite(s): Current enrollment in UVU Honors

Program or instructor approval and University Advanced Standing

Topics may be drawn from any academic discipline including but not limited to business, technology and computing, education, fine and performing arts, physical and biological sciences, health science, humanities, and social sciences. Specific content determined by faculty. Consists of rigorous analysis and synthesis of innovative, current, or special topics. May include lab or performance requirement. May be repeated for a maximum of 12 credits toward graduation.

HONR 498R

Honors Thesis

3:0:6

Fall, Spring

* Prerequisite(s): (Senior status or permission of Honors Director) and University Advanced Standing

* Corequisite(s): Enrollment in Honors Program

For students completing the Honors Program. Provides an opportunity for seniors in the Program to research and write on a topic related to their major, supervised by a faculty mentor. Includes independent research as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project. Honors Project HONR 499 may be substituted. If a student's major department offers a thesis course, that course may be substituted. May be repeated for a maximum of 6 credits toward graduation. Course fee of \$10 for binding applies.

HONR 499R

Honors Project

3:0:6

Fall, Spring

* Prerequisite(s): (Senior status or permission of Honors Director) and University Advanced Standing

* Corequisite(s): Enrollment in Honors Program

For students completing the Honors Program. Provides an opportunity for seniors in the Program to research, design, carry out, and report results of an original project related to their major, supervised by a faculty mentor. Includes independent research and creative endeavor as necessary. Culminates in the preparation of two short written papers, one preparatory to the project and one evaluating or reflecting on the project's results. Project should be presented publicly, for instance, in a recital, show, portfolio, or other appropriate method in the discipline. May be taken as an extension of research pursued in Honors Thesis 498; may be taken as a substitute for Honors Thesis 498. If a student's major department requires a comparable course (with, for instance, substantial written component), that course may be substituted, with permission of the Honors Director. May be repeated for a maximum of 6 credits toward graduation. Course fee of \$10 for binding applies.

Human Resource Management (HR)

HR 3430

Introduction to Human Resource Management

3:3:0

Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Covers labor and management relations, legal issues, job analysis and design, recruiting and selecting, job placement and orientation, training, career planning, EEO, performance appraisal, and employee benefits. Presents tools for the implementation of a human resource management program. Includes class discussions, case studies, videos, oral presentations, written assignments, group projects, and guest speakers. May be delivered online and/or hybrid. Lab access fee of \$32 for computers applies

HR 3530 (Cross-listed with: LEGL 3530)

Employment and Labor Law

3:3:0

Fall

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Covers employment and labor law, cases, and policy. Includes employment discrimination along with labor relations statutes exploring the link between employment discrimination and traditional labor relations law. Presents tools necessary to formulate and write policy for profit and non-profit organizations. Includes lecture, class discussions, case studies, a service learning project, and guest speakers. Lab access fee of \$32 for computers applies.

HR 3550

Organization Development

3:3:0

Spring

* Prerequisite(s): ENGL 1010 and University Advanced Standing; HR 3430 highly recommended

Studies the process of ensuring skills, knowledge, abilities, and performance of the workforce meet current and future individual, team, and organizational needs. Includes the development, implementation, evaluation activities, interventions, and programs that focus on customized organization development (change), performance management, training and development, career development, and other unique employee or employee group needs.

HR 3570

Training and Development

3:3:0

Fall

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing; HR 3430 recommended

Studies current models, methods, and skills for training and development designed to improve individual, group, and organizational performance. Examines the organizational role of the training specialist, identifying training needs, maximizing the trainee's learning, evaluating training programs, on-site training methods, off-site training methods, developing and training leaders, management and executive development, and societal concerns. Includes teaching techniques such as lecture, class discussions, small group activities or projects, oral presentations, written assignments, guest speaker, and scholarly dialogue. Includes a semester-long training and development academic service-learning project.

HR 4000

Total Compensation I--Pay and Incentives

3:3:0

Fall

* Prerequisite(s): HR 3430 and University Advanced Standing

Studies wage and salary administration in private and public organizations; total compensation systems; interrelationship among employee performance, intrinsic and extrinsic rewards, perceived equitable payments, and employee satisfaction; employee benefits; employee incentive programs. Lab access fee of \$32 for computers applies.

HR 4010

Total Compensation II--Benefits

3:3:0

Fall

* Prerequisite(s): HR 3430 and University Advanced Standing

Identifies a framework for implementing benefits systems to attract and retain a high performance workforce in a global environment; provides a comprehensive overview of benefits management strategies in organizations; discusses relevant models of compensation; and reviews various benefits influences, including laws and regulations.

HR 4050

Human Resource Information Systems

3:3:0

Fall

* Prerequisite(s): HR 3430 and University Advanced Standing

Provide students with introductory knowledge of Human Resource Information Systems. Examines HR information system adoption, implementation, and the assessment and building of management support to achieve HR strategic objectives.

HR 4610

Workforce Planning and Staffing

3:3:0

Fall

* Prerequisite(s): Matriculation into the Woodbury School of Business and University Advanced Standing; HR 3430 and HR 3530 recommended

Addresses the key HR functions of planning, staffing, and maintaining a quality workforce. Includes identifying critical specifications for filling positions, recruiting a pool of talent, developing selection methods, and creating desirable person/job matches. Lab access fee of \$32 for computers applies.

HR 495R

Advanced Topics in Strategic Human Resource Management

1 to 3:1 to 3:0

* Prerequisite(s): Department chair approval and University Advanced Standing.

Provides exposure to emerging current interests in strategic human resource management topics. Topics vary each semester. May be repeated for a maximum of 6 credits toward graduation.

Course Descriptions

Humanities (HUM)

HUM 1010 **HH**
Humanities Through the Arts
3:3:0 **Fall, Spring, Summer**

Studies the media and compositional elements of the various art forms (literature, music, visual arts, theater, film, dance, and architecture), for greater understanding and enjoyment. Teaches how to interpret artistic meaning by analyzing artworks formally as well as in their historical contexts, such as the predominant subject matters and styles of their period. Encourages students to integrate the arts into their daily lives habitually, so that they become lifelong learners and educators.

HUM 101G **HH**
Humanities Through the Arts
3:3:0 **Fall, Spring, Summer**

Studies the media and compositional elements of the various art forms (literature, music, visual arts, theater, film, dance, and architecture), for greater understanding and enjoyment. Teaches how to interpret artistic meaning by analyzing artworks formally as well as in their historical contexts, such as the predominant subject matters and styles of their period. Encourages students to integrate the arts into their daily lives habitually, so that they become lifelong learners and educators. Places emphasis on the global, trans- and intercultural nature of human creativity and its impacts.

HUM 101H **HH**
Humanities Through the Arts
3:3:0 **Fall, Spring**

Studies the media and compositional elements of the various art forms (literature, music, visual arts, theater, film, dance, and architecture), for greater understanding and enjoyment. Teaches how to interpret artistic meaning by analyzing artworks formally as well as in their historical contexts, such as the predominant subject matters and styles of their period. Encourages students to integrate the arts into their daily lives habitually, so that they become lifelong learners and educators.

HUM 120R **HH**
Humanities Forum
3:3:0 **On Sufficient Demand**

Introduces students to a wide variety of aspects of the humanities. Provides enriched learning situations in which students are exposed to humanities events or noted guest scholars and other lecturers. Requires attendance of a choice of specified events on campus and off, as well as of workshop meetings with an instructor. May be repeated for a maximum of 6 credits toward graduation.

HUM 2010 **HH**
World History Through the Arts I
3:3:0 **Fall, Spring, Summer**

Studies early societies through the 1600s, as the first part of a two-part series which examines world civilizations through the arts. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans faced in the past, and possible strategies for problem solving that might aid students today.

HUM 201G **HH**
World History Through the Arts I
3:3:0 **Fall, Spring, Summer**

Studies early societies through the 1600s, as the first part of a two-part series which examines world civilizations, including non-Western civilizations, through the arts. Explores formative creative events in history, and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans faced in the past, and possible strategies for problem solving that might aid students today. Promotes a trans- and intercultural, global understanding of human creativity and its impact through the ages.

HUM 201H **HH**
World History Through the Arts I
3:3:0 **Fall, Spring**

The first of a two-part series which examines world civilizations through the arts. Studies early societies through the 1600s. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans faced in the past, and possible strategies for problem solving that might aid students today.

HUM 2020 **HH**
World History Through the Arts II
3:3:0 **Fall, Spring, Summer**

Studies societies from the 1600s, as the second part of a two-part series which examines world civilizations through the arts. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans face in the past, and possible strategies for problem solving that might aid students today.

HUM 202G **HH**
World History Through the Arts II
3:3:0 **Fall, Spring, Summer**

Studies societies from the 1600s, including non-Western societies, as the second part of a two-part series which examines world civilizations through the arts. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans face in the past, and possible strategies for problem solving that might aid students today. Promotes understanding of the global, trans- and intercultural nature of human creativity and its impacts.

HUM 202H **HH**
World History Through the Arts II
3:3:0 **Fall, Spring**

The second of a two-part series which examines world civilizations through the arts. Studies societies from the 1600's. Explores formative creative events in history and their relationships to modern issues. Presents perspectives of traditional humanistic values of arts and ideas. Investigates how others have dealt with problems that humans face in the past, and possible strategies for problem solving that might aid students today.

HUM 203G **HH**
Art Form Focus I GI
3:3:0 **Fall, Spring, Summer**

Surveys the nature, history, and possibilities of one specific art form, such as painting, sculpture, theater, architecture, dance, music, or literature, in the context of the influence that art forms exert on each other. Deals with characteristics of a chosen art form prior to 1500 in more depth than Hum 1010 or 2010 can, while highlighting how creative events in human history always are in dialogue both with the social discourses of their times and with each other.

HUM 204G **HH**
Art Form Focus II GI
3:3:0 **Fall, Spring, Summer**

Surveys the nature, history, and possibilities of one specific art form, such as painting, sculpture, theater, architecture, dance, music, or literature, in the context of the influence that art forms exert on each other. Deals with characteristics of a chosen art form after 1500 in more depth than Hum 1010 or 2020 can, while highlighting how creative events in human history always are in dialogue both with the social discourses of their times and with each other.

HUM 2100 **HH**
Adventures of Ideas Through 1500
3:3:0 **Fall, Spring, Summer**

Studies great written or visual texts in the Western or Eastern history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from Antiquity through 1500. Readings and thematic focus vary by instructor, but all courses interrelate texts from different disciplines and world regions under one broad topic relating to the human condition, such as love, death, war and peace, family, justice, the state etc.

HUM 210H **HH**
Adventures of Ideas Through 1500
3:3:0 **Fall, Spring**

* Prerequisite(s): Enrollment in the UVU Honors program or approval by the instructor.

Studies great written or visual texts in the history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from Antiquity through 1500. Readings and thematic focus vary by instructor, but all courses interrelate texts from different disciplines and world regions under one broad topic relating to the human condition, such as love, death, war and peace, family, justice, the state etc. This Honors version of HUM 2100 requires more rigorous reading and writing assignments and is open to students in the Honors program or students with special approval from the instructor only.

HUM 2200 **HH**
Adventures of Ideas After 1500
3:3:0 **Fall, Spring, Summer**

Studies great written or visual texts in the Eastern or Western history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from the Renaissance through the present. Readings and thematic focus vary by instructor, but all courses interrelate readings from different disciplines and world regions under one broad topic relating to the human condition, such as individuality, power, health, freedom, violence, the natural environment, etc.

HUM 220H **HH**
Adventures of Ideas After 1500
3:3:0 **Fall, Spring**
 * Prerequisite(s): Enrollment in the Honors Program or instructor's approval

Studies great written and visual texts in the Eastern or Western history of ideas--artistic, literary, philosophical, religious, political, technological, or scientific--from the Renaissance through the present. Readings and thematic focus vary by instructor, but all courses interrelate readings from different disciplines and world regions under one broad topic relating to the human condition, such as individuality, power, health, freedom, violence, the natural environment, etc. This Honors version of HUM 2200 requires more rigorous reading and writing assignments and is open to students in the Honors program or students with special approval from the instructor only.

HUM 2500
Introduction to Ancient Greek I
6:6:0 **Fall, Spring**
 * Prerequisite(s): ENGL 1010

Allows students the opportunity to intensively study the Ancient Greek language at the introductory level. Focuses primarily on Attic Greek. Focuses primarily on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek philosophy or Ancient Greek literature, and offers an important grounding for students interested in studying the New Testament.

HUM 2510
Introduction to Ancient Greek II
6:6:0 **Fall, Spring**
 * Prerequisite(s): HUM 2500

Allows students to continue intensive study of the Ancient Greek language at the introductory level. Focuses primarily on Attic Greek. Focuses primarily on grammar and textbook exercises with some analysis of literary and/or philosophical selections in Ancient Greek. Relates particularly to students interested in studying Ancient Greek philosophy or Ancient Greek literature and an important grounding for students interested in studying the New Testament.

HUM 281R
Internship
1 to 6:0:5 to 30 **Fall, Spring, Summer**
 * Prerequisite(s): Approval of Cooperative Coordinator
 * Prerequisite(s) or Corequisite(s): Completion of at least nine credits of class work in Humanities.

Allows pre-advanced Humanities students to receive credit for Humanities-related service as a paid or unpaid intern in a governmental, not-for-profit, or private agency. Provides practical and research development in the selected areas of service so as to further students' academic and professional interests and goals. Internship must be supervised by agency representative. Must be approved by Humanities internship advisor and department chair and written contracts must be completed and signed. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

HUM 290R
Independent Study
1 to 3:0 to 3:0 to 12 **Fall, Spring, Summer**

Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.

HUM 295R
Directed Readings
1 to 3:0 to 3:0 to 12 **Fall, Spring, Summer**

Provides an opportunity for second year students to do in-depth research within the Humanities. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.

HUM 3060 (Cross-listed with: ENGL 3060)
Visual Rhetoric
3:3:0 **Fall, Spring**
 * Prerequisite(s): ENGL 2010 with a grade of C- or higher and University Advanced Standing

Investigates the growing academic and cultural interest in the rhetorical nature of visual texts. Teaches critical thinking about the consumption and productions of images and multimodal texts. Explores visual grammars and other theories of visual rhetoric as articulated by contemporary image, language, and scholars of rhetoric. Encourages the development of theoretical and practical knowledge through reading, discussion, and analysis as well as through the production of visual texts and written work.

HUM 320R
Topics in Humanities
1 to 3:1 to 3:0 **Fall, Spring**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020 or at least sophomore status) and University Advanced Standing

Studies varying topics such as a theme (e.g., death or story-telling), figure (e.g., John Cage or Michelangelo), or movement (e.g., DaDa or Pragmatism) in humanities. Involves study of more than one art form (e.g., film, literature, and music) or discipline (e.g., art, history, and biology). May be repeated for a maximum of 6 credits toward graduation with different topics.

HUM 325R
Area Studies in Humanities
3:3:0 **Fall**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020 or at least sophomore status) and University Advanced Standing

Studies the literature, philosophy, and arts of a particular geographical area. Topics vary. May be repeated for a maximum of 6 credits toward graduation with different topics.

HUM 330R
Period Studies in Humanities
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020 or at least sophomore status) and University Advanced Standing

Studies a particular period within the humanities (such as the medieval world, Romanticism, or Modernism). Involves study of more than one art form (e.g., music, art, and literature) or discipline (such as literature and philosophy) from during the chosen period. Topics vary. Repeatable, with different topics, toward graduation.

HUM 3500
Approaches to Humanities
3:3:0 **Fall**
 * Prerequisite(s): (HUM 1010 or higher) and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys recent critical and aesthetic theory for each art form and teaches students how to apply theoretical approaches to the interpretation of individual texts, films, artworks, buildings, performances, etc. Includes readings of seminal works by philosophers, academic or professional critics, and practicing artists. May also study examples where the apparent divide between theory and practice is collapsed, where, for instance, an artistic product in itself may have provided a new approach for future artistic productivity and interpretation, or where a theoretical contribution has been made in such a way as immediately to demonstrate a certain creative practice.

HUM 3800 (Cross-listed with: PHIL 3800)
Aesthetics
3:3:0 **Fall**
 * Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and (HUM 1010 or HUM 101G or HUM 101H) and University Advanced Standing

Studies aesthetics as perceived by the disciplines of philosophy, psychology, sociology, anthropology, history, and others. Analyzes art forms, including the visual arts, literature, music, and theater from the perspective of philosophers such as Plato, Aristotle, Kant, Hume, Dewey, Danto, Bell, Collingwood, Thoreau, and Dickie.

HUM 3820 (Cross-listed with: PHIL 3820)
Philosophy Through Literature
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Provides students with an interdisciplinary approach to the study of philosophy through literature. Gives students the opportunity to read some of the most engaging thinkers and how they offer differing perspectives through a variety of texts. Breaks down some of the strict divisions placed between philosophical and literary texts.

Course Descriptions

HUM 400R

Humanism and Posthumanism

3:3:0 On Sufficient Demand

* Prerequisite(s): At least junior standing and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENG 2010 or ENGL 2020

Explores Humanism or Posthumanism across the arts and their diverse cultural history. Defines humanism as varieties of the traditional view that Man is the measure of all things, and Posthumanism as an umbrella term for recent theoretical approaches within the humanities that challenge this view, for instance by placing humanity in the context of global or universal, intrinsically diverse and self-generating, scientific, technological, or ecological systems. May compare aspects of humanism throughout space and time, in its diverse cultural manifestations, or may focus on a twenty-first-century view of these long traditions. May also choose the example of the humanistic or posthumanistic aspects of a single time period, culture, or interdisciplinary oeuvre. Offers an opportunity to advanced students to synthesize, critique, and strengthen their own viewpoints, and to expand their interdisciplinary understanding of human expression, in response to the most fundamental or recent currents within intellectual history. May be repeated for a maximum of 6 credits toward graduation.

HUM 401R

Forms and Genres Across the Arts

3:3:0 On Sufficient Demand

* Prerequisite(s): At least junior standing and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020

Explores forms and genres of imagery, narrative, drama, composition, or performance, across all art forms. Fosters analytical and interpretative skills in reading all kinds of texts. Highlights the inextricable interrelations among all realms of sensual, intellectual, aesthetic, and cultural experience. Illuminates the polar dynamics of tradition and innovation, continuity and change, and departure and return throughout the history of human creativity. May be repeated for a maximum of 6 credits toward graduation.

HUM 414R

Advanced Topics in Humanities

3:3:0 On Sufficient Demand

* Prerequisite(s): At least junior standing and University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020

Studies a topic relevant to cross-disciplinary humanities at an advanced level of critical engagement. Involves more than one art form or discipline of humanistic inquiry. Requires study of secondary literature and theoretical texts. May be repeated, with different topics, for a maximum of 6 credits toward graduation.

HUM 4300 (Cross-listed with: PHIL 4300)

Environmental Aesthetics

3:3:0 Spring

* Prerequisite(s): (PHIL 000, PHIL 100H, PHIL 2050, PHIL 205H, PHIL 205G, ENST 3000, HUM 1010, HUM 101H, HUM 101G, or HUM 3500) and University Advanced Standing

Introduces students to emerging themes in environmental aesthetics. Evaluates concepts and attitudes toward nature including, but not limited to, the concept of beauty in natural and human-made environments from a cross-cultural perspective. Studies environmental formalism, cognitivism and non-cognitivism, as well as divergent spiritual, ecological, religious, and moral approaches to the appreciation of nature.

HUM 481R

Internship

1 to 6:0:5 to 3:0

* Prerequisite(s): Departmental chair approval and University Advanced Standing

Allows advanced Humanities students to receive credit for Humanities-related service as a paid or unpaid intern in a governmental, not-for-profit, or private agency. Provides practical and research development in the selected areas of service so as to further students' academic or professional interests or goals. Internship must be supervised by agency representative. Must be approved by Humanities internship advisor and department chair and written contracts must be completed and signed. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

HUM 490R

Directed Readings

1 to 3:1 to 3:0 Fall, Spring

* Prerequisite(s): Department Chair Approval, Instructor Approval, and University Advanced Standing

Designs reading and writing assignments in consultation with a faculty member to meet special needs or interests not available through regular course work. May be repeated for a maximum of 6 credits toward graduation.

HUM 4910

Humanities Capstone

3:3:0

* Prerequisite(s): Senior Standing and University Advanced Standing

* Prerequisite(s) or Corequisite(s): HUM 3500

To be taken during the students' last semester in the baccalaureate program. Instructs them how to conduct Humanities research, develop a complex critical argument, and write a senior thesis, building on skills and knowledge gained in earlier courses. Encourages students to explore their desired professional or graduate research interests. Includes defending the paper's thesis, method, and conclusion before a faculty committee, as well as the creation of a portfolio helpful in applying to graduate school or seeking employment.

Interdisciplinary Studies Program (IDST)

IDST 281R

Interdisciplinary Studies Internship

1 to 8:0:5 to 4:0

* Prerequisite(s): Department Approva

Provides supervised, practical, and professional experience for lower division students. May be repeated for a maximum of 8 credits toward graduation. May be graded Credit/No Credit.

IDST 481R

Interdisciplinary Studies Internship

1 to 8:0:5 to 4:0

* Prerequisite(s): Junior standing, department approval, and University Advanced Standing

Provides supervised, practical, and professional experience for upper division students preparing for a variety of careers associated with interdisciplinary studies. May be repeated for a maximum of 8 credit hours. May be graded credit/no credit.

IDST 4900

Interdisciplinary Studies Capstone

3:3:0 Fall

* Prerequisite(s): Senior status and University Advanced Standing

For students nearing completion of an Interdisciplinary Studies minor. Provides an opportunity for students to synthesize their interdisciplinary course work. Requires and facilitates a major research project. Addresses the theoretical and practical problems of interdisciplinary research and writing. Requires participation in peer review groups and in-class presentations.

Information Management (IM)

IM 1010

Basic Computer Applications

3:3:0 Fall, Spring, Summer

* Prerequisite(s): Basic keyboarding skill

Prepares students for the IC3 certification exam. Teaches basic computer fundamentals, digital living concepts, and key applications. Includes PC computer system concepts, basics of the Windows operating system, software licensing and installation, electronic communication, Internet and research fluency, and ethical computer usage. Provides hand-on experience in the basic features of Microsoft Word, PowerPoint, Excel, and Access as common business problem solving and communication tools. May be delivered hybrid and/or online. Lab access fee of \$35 for computers applies. Canvas Course Mats \$78/Cengage applies. Software fee of \$10 applies.

IM 101A

Word Processing Applications

1:1:0 On Sufficient Demand

Introduces word processing software. Emphasizes commands needed to create, format, revise, save, and print documents. Includes inserting and formatting graphics, tables, and tabs into a text document. Lab access fee of \$35 for computers applies.

IM 101B**Presentations Applications****.5: .5:0** **On Sufficient Demand**

Introduces presentation software. Emphasizes process of creating, formatting, revising, saving, print, and showing presentations. Includes planning a slide show, choosing appropriate designs, and using templates. Lab access fee of \$35 for computers applies.

IM 102R**Keyboard Reinforcement****1:1:0** **On Sufficient Demand**

* Prerequisite(s): Basic keyboarding skill

Emphasizes speed and accuracy through improved techniques using timed writings. One credit may apply toward a certificate or AAS degree. May be taken additional times for improvement. Business/Marketing Education majors are required to keyboard at 40 wpm for Utah State Office of Education Business Education licensing. Lab access fee of \$35 for computers applies.

IM 1060**Fundamentals of Computing Technologies****2:2:1** **On Sufficient Demand**

Introduces computer concepts, such as hardware, software, networking, and emerging technologies in the electronic workplace. Emphasizes use of operating systems for end users. Lab access fee of \$35 for computers applies.

IM 183R**IM Student Chapter****1:1:0** **Fall, Spring**

Develops insights regarding lifetime careers and advancement opportunities in business, education, and industry through participation in a student organization. Helps students develop professionally through opportunities to use and apply, human relations, management, social, communicative, and organizational skills. Provides opportunities for leadership positions, committee assignments, participation in school and community activities, and competition in state and national competitive events. Requires payment of local, state, and national dues. Students may choose membership in Phi Beta Lambda, the collegiate division of FBLA (Future Business Leaders of America), or IAAP (International Association of Administrative Professionals). Designed for information management and education-oriented students but open to all students interested in lifetime business skills. Graded credit/no credit. May be repeated for a maximum of 4 credits toward graduation. Lab access fee of \$35 for computers applies.

IM 184R**IM Student Leadership****1:1:0** **Fall, Spring**

* Prerequisite(s): Instructor Approval

For Phi Beta Lambda officers and International Association of Administrative Professionals. Includes development, organization, and direction of the Program of Work for student chapters. Graded on a credit/no credit basis. May be repeated for a maximum of 4 credits toward graduation.

IM 2010**Business Computer Proficiency****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): (IM 1010 recommended) or (Basic Computer Applications Challenge Exam with a minimum score of 80% recommended)

Encompasses two software applications, Microsoft Excel and Microsoft Access, from a business perspective. Covers intermediate level problem solving and production skills. Uses business applications in case study settings to solve problems and accomplish tasks. In company with IM 1010, meets/exceeds the Board of Regent's Business Core Advisory Committee's requirement and the Business Computer Proficiency required by the Woodbury School of Business. May be delivered online. Lab access fee of \$35 for computers applies. Canvas Course Mats \$88/Pearson applies. Software fee of \$18 applies.

IM 201A**Spreadsheet Applications****2:2:0** **On Sufficient Demand**

* Prerequisite(s): (IM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher) or Instructor Approval

Introduces spreadsheet software. Emphasizes process of creating, formatting, enhancing, revising, saving, and printing spreadsheets. Stresses use of formulas and functions to solve problems. Includes creating charts using spreadsheet data. Lab access fee of \$35 for computers applies.

IM 201B**Database Applications****1:1:0** **On Sufficient Demand**

* Prerequisite(s): (IM 1010 with a grade of B- or higher) or (Basic Computer Applications Exam with a score of 80% or higher) or Instructor Approval

Introduces database software. Emphasizes process of designing, modifying, and creating related tables. Includes creating forms, generating reports and labels and constructing queries. Lab access fee of \$35 for computers applies.

IM 2100**Document Processing Applications****3:3:0** **On Sufficient Demand**

* Prerequisite(s): Basic keyboarding skills

Teaches intermediate word processing features in a Windows environment for the production of business letters, envelopes, multiple-page documents, reports, newsletters, tables, and other specialized business documents. Emphasizes identification and troubleshooting problems associated with soft copy document production. Stresses proper formatting. Software fee of \$16 applies. Lab access fee of \$35 for computers applies. Canvas Course Mats \$78/Cengage applies.

IM 2300**Information Management Principles****3:3:0** **Fall**

* Prerequisite(s): IM 1010 or IM 2010 or IM 2100

Includes storage and retrieval systems, managing manual and electronic files, cross referencing, automated records systems, safety, security, and disaster recovery. Discusses the records cycle, equipment, supplies, retention schedules, and micrographics and image technology. Explores legal and ethical concerns. Lab access fee of \$35 for software applies.

IM 2400**Presentation Applications****3:3:0** **On Sufficient Demand**

* Prerequisite(s): IM 1010 or IM 2010 or IM 2100 or Instructor Approval

Uses a presentation software tool to create computer slide presentations, business charts and graphs, illustrations for desktop publishing, text charts, and other business-oriented publications. Incorporates presentation templates, clip art, charts and graphs, scanned images, sound, animations, video, and hyperlinks to create projects. Software fee of \$8 applies. Lab access fee of \$35 for computers applies.

IM 2500**Graphic Applications****3:3:0** **Fall**

* Prerequisite(s): IM 1010 or IM 2100 or Instructor Approval

Explores digital image editing using Adobe Photoshop and Adobe Illustrator. Provides an overview of image optimization processes for the web. Lab access fee of \$35 for computers applies.

IM 2600**Spreadsheet Applications****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): MAT 0990 or equivalent business math knowledge; basic keyboarding skill

Provides an extensive study and hands-on examination of practical business applications using electronic spreadsheets. Provides comprehensive coverage of features available in the current Windows version of spreadsheet software. Software fee of \$18 applies Lab access fee of \$35 for computers applies. Canvas Course Mats \$88/Pearson applies.

IM 2800**Integrated Software Projects****3:3:0** **Spring**

* Prerequisite(s) or Corequisite(s): IM 2100 and IM 2600 or Instructor Approval

Emphasizes organizing projects, prioritizing tasks, working under time pressures, and dealing with stressful situations. Requires completion of advanced document production in an automated environment using current versions of suite software packages. Course projects stress self-motivation, acceptance of responsibility, critical thinking, and effective decision making. Designed to prepare students majoring in administrative information management to enter the work force, and should be taken at the end of a program in order to grasp the concepts presented and, with little supervision, produce material acceptable on the job. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

Course Descriptions

IM 281R

Internship

1 to 8:0:5 to 40 On Sufficient Demand

* Prerequisite(s): Departmental Approval

For Information Management majors only. Provides a transition from school to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Completers should obtain experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for entry level IM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 9 credits towards graduation. May be graded credit/no credit.

IM 290R

Current Topics in Information Management

1 to 3:0 to 3:0 to 9 Fall, Spring, Summer

* Prerequisite(s): Departmental Approval

Designed for students interested in specific information management tools and concepts. Includes relevant and changing topics and tools used by business and industry. Emphasizes hands-on experience along with lectures and demonstrations. May be taken for a total of 9 credits toward graduation. Lab access fee of \$35 for computers applies.

IM 3500

Desktop Publishing Applications

3:3:0 Spring

* Prerequisite(s): (IM 2100 or Instructor approval) and University Advanced Standing

For administrative information management or administrative information support majors and others interested in learning desktop publishing features. Teaches the use of current desktop publishing software in a Windows environment. Emphasizes production of complex documents for the purpose of publication. Teaches formatting and design principles through the use of theory instruction, demonstration, and hands-on experience. Lab access fee of \$35 for computers applies.

IM 3600

Advanced Excel for Decision Making

3:3:0 Fall, Spring

* Prerequisite(s): IM 2010 or IM 2600 and University Advanced Standing

Uses Microsoft Excel as a reporting tool and as a modeling tool for solving business problems. Focuses on reporting, analyzing data, and building analytic models to improve operations, increase profits, or reduce costs. Builds models to help make business decisions including advanced functions, dashboards, forecasting, optimization, and simulation.

IM 3700

Database Applications

3:3:0 Spring

* Prerequisite(s): Basic keyboarding skill and University Advanced Standing

Explores creating and utilizing database files using database management software. Covers basic concepts of database management emphasizing commonly used applications. Teaches use of reports, letters, labels, custom screens, and queries in a business setting. Software fee of \$10 applies. Lab access fee of \$35 for computers applies.

IM 4100

CPS CAP Review Office Systems and Technology

2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Office Systems and Technology section of the CPS and CAP exams. Lab access fee of \$35 for computers applies.

IM 4110

CPS CAP Review Office Administration

2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Office Administration section of the CPS and CAP exams. Lab access fee of \$35 for computers applies.

IM 4120

CPS CAP Review Management

2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Management section of the CPS and CAP exams. Lab access fee of \$35 for computers applies.

IM 4130

CAP Advanced Organizational Management

2:2:0 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

For students and others wishing to prepare for the Certified Professional Secretary or the Certified Administrative Professional Examinations administered by International Association of Administrative Professionals. Prepares students to sit for the Advanced Organizational Management section of the CPS and CAP exams. Lab access fee of \$35 for computers applies.

IM 4300

Information Workflow Management

3:3:0 On Sufficient Demand

* Prerequisite(s): IM 2300, Junior Standing, and University Advanced Standing

Emphasizes organization, problem-solving, and critical thinking skills in directing the completion of documents and projects in an automated and integrated environment. Covers a variety of administrative information management activities including planning and organizing new projects; directing new and ongoing operations; and utilizing available technology to process, analyze, manage, and communicate information. Stresses self-motivation, effective decision making, and critical and creative-thinking skills. Completers should function effectively in the role of an administrative information or business office manager. Lab access fee of \$35 for software applies.

IM 481R

Internship

1 to 8:0:5 to 40 Fall, Spring, Summer

* Prerequisite(s): Instructor approval and University Advanced Standing

For Information Management majors only. Provides a transition from school to-work where learned theory is applied to actual practice through a meaningful on-the-job experience. Includes student, employer and coordinator evaluations, on-site work visits, and written assignments. Provides experience in establishing and accomplishing individualized work objectives that improve work performance. Internship is intended for senior IM students who are working at that level. Credit is determined by the number of hours a student works during the semester and completion of individually set goals. May be repeated for a maximum of 9 credits towards graduation. May be graded credit/no credit.

IM 490R

Advanced Topics in Information Management

1 to 3:0 to 3:0 to 9 On Sufficient Demand

* Prerequisite(s): Departmental Approval and University Advanced Standing

Includes relevant and changing topics and tools used by business and industry. Emphasizes hands-on experience. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of \$35 for computers applies.

IM 496R

Information Management Seminar

1 to 3:1 to 3:0 to 6 On Sufficient Demand

* Prerequisite(s): IM 2300 and University Advanced Standing

Provides short courses, workshops, and special programs in information management or current business topics. May be repeated for up to 6 credits toward graduation.

IM 497R

Independent Study

1 to 3:1 to 3:0 to 6 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading or in individual projects; offered at the discretion and approval of the department chairperson. May be repeated for a maximum of 9 credits toward graduation.

Information Systems and Technology (INFO)

INFO 1000

E-Commerce Techniques for Small Business

3:3:0 On Sufficient Demand

* Prerequisite(s) or Corequisite(s): Basic Computer Proficiency or IM 1010 strongly recommended

Introduces strategies and best practices for analyzing a target market, designing an online business, and implementing an e-Commerce solution. Discusses online marketing, branding, usability, search engine optimization, personalization, rapid development, theming, and security. Requires implementation of an online small business individually or with a group. Lab access fee of \$35 for computers applies.

INFO 1120**Information Systems and Technology Fundamentals****3:3:0** Fall, Spring, Summer

* Prerequisite(s): IM 1010 recommended

Explores the fundamental concepts of information technology and the role played by enterprise systems in business and organizational strategy. Introduces types of systems, computer organization and hardware, operating systems and networking, project planning, software development, computer ethics, and career paths for enterprise developers and IT professionals. Lab access fee of \$35 for computers applies.

INFO 1200**Computer Programming I for IS IT****3:3:0** Fall, Spring

* Prerequisite(s): MAT 1010 or higher; INFO 1120 recommended

Presents concepts of modern computer programming. Emphasizes problem-solving, algorithm development, and programming design. Stresses constructs, data representation, fundamental types and data structures, decision structures, repetition structures, methods, arrays, classes, and objects. Includes testing, debugging, and documentation. Introduces object-oriented, event-driven programming models. Lab access fee of \$35 for computers applies.

INFO 2100**Computer Proficiency for Technology Professionals****3:3:0** On Sufficient Demand

* Prerequisite(s): (ENGL 1010 or higher) and (MAT 1030 or higher)

For Technology Management and Construction Management students. Provides opportunities for students to gain proficiency in using Microsoft Office (Word, PowerPoint, Excel, and Access) to enhance their business productivity and problem-solving skills. Teaches students to apply information technologies to problem situations. Meets computer proficiency requirement for Technology Management degree. Lab access fee of \$35 for computers applies.

INFO 2200**Computer Programming II for IS IT****3:3:0** Fall, Spring, Summer

* Prerequisite(s): (INFO 1200 or CS 1400 with a grade of C- or better within the past seven years) and MATH 1050 or higher, or Departmental Approval

Introduces object-oriented design and programming methodologies. Teaches students to use inheritance, polymorphism, and encapsulation. Provides students with knowledge to abstract functionality by using interfaces. Covers collection classes, generics, exception handling, file handling, and more advanced topics such as accessing databases via LINQ, socket/network programming, and multi-threading. Lab access fee of \$35 for computers applies.

INFO 2410**Database Fundamentals****3:3:0** Fall, Spring, Summer

* Prerequisite(s): (INFO 1120 recommended) or (IM 2010 recommended)

Introduces concepts and use of database management systems. Presents the relational model, Structured Query Language, database design including normalization theory, and application development tools using an enterprise-level relational database management system. Lab access fee of \$35 for computers applies.

INFO 2420**Web Application Design****3:3:0** Fall, Spring, Summer

* Prerequisite(s): INFO 1120 recommended or IM 1010 recommended

Focuses on the design and construction of Web pages and maintenance of Web sites. Includes foundations in standards-based HTML and CSS. Covers code markup, design concepts and web graphics manipulation, page layout, form development, and usability and accessibility issues. Teaches use of Web authoring tools for code development and site management. Requires individual projects. May be delivered hybrid and/or online. Lab access fee of \$35 for computers applies.

INFO 281R**Internship****1 to 8:0:5 to 40** Fall, Spring, Summer

* Prerequisite(s): Department Approval

Provides opportunities to apply classroom theory on the job. Requires work as paid employees in a job that relates to their careers while enrolled at the College. Students meet at least monthly with the Departmental Internship Coordinator. Completers meet individually set goals. Six credits may be applied toward graduation with an AAS degree and three credits toward certificate programs. May be graded credit/no credit.

INFO 297R**Independent Study****1 to 3:0:3 to 9** On Sufficient Demand

* Prerequisite(s): Department Approval

Offers independent study as directed in reading in individual projects. Approval for this course is at the discretion of the department chairperson. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of \$35 for computers applies.

INFO 3120**Management Information Systems****3:3:0** Fall, Spring, Summer

* Prerequisite(s): [(MKTG 2200 or ENGL 2010 or ENGL 2020) and (Computer Proficiency or INFO 1120 or IM 2010 or IM 2600 with a grade of C- or better within the past five years) or departmental approval] and University Advanced Standing

Introduces the field of information systems and technology. Teaches the general business manager how to use and manage the most current information technologies (IT). Studies the Internet, Intranets, and Extranets for electronic commerce and enterprise collaboration. Examines business cases demonstrating IT contributions to competitive advantage, reengineering business processes, and decision making. May be delivered online. Lab access fee of \$35 for computers applies.

INFO 3130**Introduction to Applied Data Analytics****3:3:0** Fall, Spring

* Prerequisite(s): Basic statistics course (MGMT 2340 or STAT 1040 or STAT 1045 or STAT 2040 or STAT 2050 or BESC 3010), and basic knowledge of Microsoft Excel, or Departmental Approval and University Advanced Standing

Intended for people who will be working with data analysts and data scientists, managing analytics projects, or investing in analytics ventures, and aspiring data scientists. Provides opportunities for students to gain skills in data-analytic thinking required to succeed in today's analytical and data-driven economy. Introduces the basics of data management and data analytics. Covers core analytic techniques: data exploration and visualization, pattern discovery (segmentation and association), predictive modeling (decision tree, logistic regression, neural network), and forecasting. Lab access fee of \$35 for computers applies.

INFO 3410**Database Systems and Warehousing****3:3:0** Fall, Spring, Summer

* Prerequisite(s): (INFO 2410 or CS 3520 with a grade of C- or higher within the past seven years) and University Advanced Standing

Covers advanced database development topics and introduces a data warehouse model designed especially to support analytics and reporting needs. Database development topics covered include transaction management, performance optimization, data loading, and the development of stored procedures, triggers, and functions. Presents the data warehouse model in contrast to existing operational transaction systems. Analyzes business reporting needs, creates models for data warehouses based on the reporting needs, and uses SQL to create and populate tables based on dimensional models. Lab access fee of \$35 for computers applies.

INFO 3420**Web Systems Development****3:3:0** Fall, Spring, Summer

* Prerequisite(s): [(INFO 1200 or IT 1200 or CS 1400) and (INFO 2410 or CS 3520) both with a grade of C- or higher within the past seven years] and University Advanced Standing; INFO 2420 recommended

Introduces students to web application development using modern frameworks for web site architecture as well as data integration technologies. Covers server-side architectural design patterns in depth. Introduces Object Relational Mapping (ORM) for database integration as well as how to secure a website from common attacks. Introduces JavaScript and JavaScript libraries to implement user interface enhancements as well as perform AJAX calls. Introduces a web services API, unit testing principles, and implementation of end points. Introduces Single Page Application (SPA) design principles and best practices in common client-side frameworks. Lab access fee of \$35 for computers applies.

Course Descriptions

INFO 3422

PHP Web Application Development

3:3:0 On Sufficient Demand

* Prerequisite(s): (INFO 1200 or DGM 2760 or CS 2550) and University Advanced Standing

Utilizes open-source technologies to produce interactive Web applications. Provides experience using a powerful, object-oriented scripting language, PHP, combined with an open-source relational database, MySQL, to develop skills needed to effectively administer, develop and secure Internet applications. Lab access fee of \$35 for computers applies.

INFO 3426

Web Content Management Systems Site Development

3:3:0 Fall, Spring

* Prerequisite(s): INFO 1200 and INFO 2410 and University Advanced Standing

Studies the use of content management systems (CMS) to allow web publishers to instantly and dynamically update web pages and properties as new content becomes available so that every visit to a site is engaging, informative, and meaningful. Explores the use of the some of most popular web-based content management systems (such as WordPress, Joomla, and Drupal) to create dynamic and flexible websites and landing pages. Explores the fundamentals of planning dynamic websites, CMS database management, developing CSS-controlled site templates, and creating database-driven websites through the planning and creation of their own topic-based sites. Lab access fee of \$35 for computers applies.

INFO 3430

Systems Analysis and Design

3:3:0 Fall, Spring, Summer

* Prerequisite(s): [(INFO 2410 and (INFO 2420 or IT 2700)) or [(IM 2600 and IM 2800) each with a grade of C- or higher within the past seven years] and (MKTG 2200 or ENGL 2310) and University Advanced Standing

Introduces the systems development life cycle with a focus on systematic planning; requirements, process, and data analysis; and an overview of the design phase. Covers fundamental principles, effective processes, and techniques of project management, including scheduling and project control. Covers appropriate methodologies, tools, diagrams, and techniques for systems analysis, design, and project management. Requires working in teams to complete and present the first planning and analysis phases of a project for a client. Should be taken in the end of the junior year or first semester of the senior year. Lab access fee of \$35 for computers applies.

INFO 3700

Health Informatics Fundamentals

3:3:0 Fall, Spring

* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): INFO 2410 or ZOOL 1090 or HLTH 1300

Introduces the concepts, practices and ethics of health informatics. Includes a survey of current health care information systems, such as electronic health records, practice management systems, patient portals, consumer health informatics, disease registries, e-prescribing, telemedicine, and public health informatics. Surveys health care information exchange and related standards and classification systems used to implement interoperable computer-based patient records. Examines privacy and security measures, such as HIPAA, HITECH Act, and Meaningful Use and how they are related to data security, privacy and public perception. \$35 course fee for computers applies.

INFO 3750

Healthcare Information Systems Applications

3:3:0 Spring

* Prerequisite(s): [(INFO 1200 or IT 1200 or CS 1400) and (INFO 2410 or CS 3520) both with a grade of C- or higher within the past seven years] and University Advanced Standing
* Prerequisite(s) or Corequisite(s): INFO 3700

Provides pragmatic coverage of the topics and resources relevant to health informatics. Exposes students to real-world examples and skills related to the acquisition, representation, management, analysis, and use of different types of HIS data. Emphasizes issues such as standardization, security, and handling unstructured data. Includes assignments, a course project, and hands-on experience in applying informatics solutions in health care settings. May be delivered hybrid. Lab access fee of \$35 for computers applies.

INFO 405G

Global Ethical and Professional Perspectives in IS and IT

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): INFO 3430

Examines professional and ethical issues within the information systems and information technology fields with a global perspective. Covers ethical and legal issues IT professionals face dealing with computer and cybercrimes, privacy issues, freedom of expression, intellectual property, software development including risk analysis, and social networking. Includes career professional development through resumes, cover letters, and job interviews specific to information systems and technology. Focuses on global networked readiness, digital highways, and challenges that information technology organizations face. May be delivered hybrid. Lab access fee of \$35 for computers applies.

INFO 4120

Business Intelligence Systems

3:3:0 Fall, Spring

* Prerequisite(s): (INFO 3120 or INFO 3130) and University Advanced Standing; INFO 2410 recommended

Focuses on extracting business intelligence from data sets for various applications including reporting and visual analytics in multiple domains including web analytics and business analytics to aid decision-making processes. Provides hands-on experience with a variety of business intelligence software for reporting and building visualizations and dashboards. Emphasizes how to extract, present and apply business intelligence to improve business decision making. Lab access fee of \$35 for computers applies.

INFO 4130

Advanced Business Intelligence Systems

3:3:0 Fall, Spring

* Prerequisite(s): (STAT 2050 or MGMT 2340), INFO 3130, and University Advanced Standing
* Prerequisite(s) or Corequisite(s): INFO 4120

Capstone course extends the concepts of analytics to the analysis of large data-sets, and preparation of analysis reports and presentations describing implications of findings. Uses modern tools such as SAS and R for advanced analytics and Hadoop for big data. Covers the theory and methods of advanced data analytics such as clustering, association, decision trees, time series, and text analysis. Hands-on application using a big data lifecycle lab. Lab access fee of \$35 for computers applies.

INFO 4135

Data Security Analytics

3:3:0 Fall

* Prerequisite(s): IT 2700 and INFO 2410 and University Advanced Standing; (INFO 3130 and INFO 3410 recommended)

Introduces students to the concept of data analytics as applied to cyber security. Includes collection, aggregation, data mining, and analysis of various data sources. Utilizes data analytics tools that correlate data in order to identify security events that may go undiscovered by traditional detection and log analysis methods. Lab access fee of \$35 for computers applies.

INFO 4410

Database Administration

3:3:0 Fall, Spring

* Prerequisite(s): (INFO 2410 or CS 3520 within the past five years) and University Advanced Standing

Introduces students to the database administration tasks and tools of a Relational Database Management System (DBMS). Includes the core areas of installation and configuration, maintaining instances and databases, optimizing and troubleshooting, managing data, implementing security, and implementing high availability. Also, introduces NoSQL database solutions and their administration and configuration. Hands-on assignments provide students with opportunities to apply the knowledge gained in the course to a popular commercial database management system. Lab access fee of \$35 for computers applies.

INFO 4415**Database Security and Auditing****3:3:0** **Spring**

* Prerequisite(s): (INFO 3410 or IT 3700) and University Advanced Standing

Utilizing theory, scenarios, and step-by-step examples, this course provides a strong foundation in database security and auditing. Covers the following topics in depth: the importance of database security in contemporary business environments; Security; Profiles; Password policies, privileges and roles; Virtual Private Databases; Auditing; SQL injection; Database management security issues. Lab access fee of \$35 for computers applies.

INFO 4420**Mobile Business Application Development****3:3:0** **Fall**

* Prerequisite(s): (INFO 1200 or CS 1400) and (INFO 2410 or CS 3520) and University Advanced Standing; (INFO 2200 recommended or CS 1410 recommended)

Introduces students to the design and development of native mobile device applications. Covers mobile interface design and development using the navigation controls specific to a popular mobile development platform. Incorporates into mobile apps various device capabilities such as the accelerometer, the device's GPS, the built-in mapping capabilities, the photo library, the device's contacts app, the image displaying capabilities, and the device's music player. Introduces apps that store and retrieve data from popular cloud data stores. Lab access fee of \$35 for computers applies.

INFO 4422**Advanced PHP Web Application Development****3:3:0** **On Sufficient Demand**

* Prerequisite(s): INFO 3422 and University Advanced Standing

Develops skills of experienced PHP Programmers by introducing advanced techniques, tools, and methodologies that can be used to build complex, scaleable, PHP applications. Covers the Object Oriented components of PHP. Covers how programmers can leverage common design patterns to build loosely coupled objects and further extend the flexibility of their applications. Lab access fee of \$35 for computers applies.

INFO 4425**Web Application Security****3:3:0** **Spring**

* Prerequisite(s): IT 2700 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): INFO 3420

Examines web application vulnerabilities and remediation techniques. Explores various tools and techniques for mapping web applications and assessing their vulnerabilities. Includes authentication management, session management, cross-site scripting, SQL injection, and web server configuration. Emphasizes practical skills developed through extensive hands-on exercises. Lab access fee of \$35 for computers applies.

INFO 4430**Systems Design and Implementation****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): INFO 3430 and University Advanced Standing

Continuation of INFO 3430. Focuses on the design and implementation of an information system using an agile, iterative development approach. Utilizes self-organizing teams that will deliver working software with ongoing customer collaboration. Introduces use of a source control system to manage code base, an agile project management tool, and encourages continuous integration practices. Requires that students work in teams to complete and present a working system of a project for a client. Lab access fee of \$35 for computers applies.

INFO 4440**Enterprise Computing Environments****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (ACC 2020 or INFO 3120 or TECH 4420) and University Advanced Standing

Introduces students to Enterprise Computing Environments. Focuses particularly on the configuration and information processing capabilities of ecommerce systems and Enterprise Resource Planning (ERP) systems. Requires students to install, configure, and customize the Magento ecommerce system, and to manage master data. Introduces both Microsoft Dynamics and the SAP ERP system. Uses SAP and Dynamics to demonstrate how enterprise software supports business processes such as order processing, materials requirements management, shipping, invoicing, and purchasing. Requires students to configure a fictional business using the SAP ERP system. May be delivered hybrid. Lab access fee of \$35 for computers applies.

INFO 4550**Senior Project****3:3:0** **On Sufficient Demand**

* Prerequisite(s): INFO 3430 and University Advanced Standing

Involves the implementation of a significant information system or information technology project. Requires students to work in teams to design and develop a working information system or information technology solution for a community client. Culminates in a presentation of the completed project by project developers to project stakeholders, interested faculty, and administration. Lab access fee of \$35 for computers applies.

INFO 459R**Current Topics in Information Systems****3:3:0** **Fall, Spring**

* Prerequisite(s): (Junior Standing or Department Approval) and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in information systems. Varies each semester depending upon the changes in the information systems discipline or to address a focused area within the information systems discipline. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of \$35 for computers applies.

INFO 4700**Healthcare Information Systems****3:3:0** **Management****3:3:0** **Fall**
* Prerequisite(s): University Advanced Standing

Overviews business practices related to health care information systems. Augments the study of the science of health information with an exposure to the practices whereby health care organizations set goals and objectives, design and implement IT solutions, manage the IT function and organization, and develop technology capital and operating budgets. Presents current best practices of the business of health informatics, drawn from industry journals and business analysis consultants. Covers the management aspects of the legal and ethical issues related to HIS including applying laws related to confidentiality and data security. Lab access fee of \$35 for computers applies.

INFO 481R**Internship****1 to 8:0:5 to 40** **Fall, Spring, Summer**

* Prerequisite(s): INFO 3410, INFO 3420, INFO 3430, Department Approval, and University Advanced Standing

For Information Systems bachelor's degree students. Provides opportunities to apply classroom theory while students work as employees in a job that relates to their careers. Meet periodically with a Departmental Internship Coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals that relate to the student's selected emphasis. Prior written department chair approval is required to apply more than three credits toward a Bachelor of Science Degree in Information Systems. May be graded credit/no credit.

INFO 489R**Undergraduate Research in Information Systems****1 to 4:0:5 to 20** **On Sufficient Demand**

* Prerequisite(s): Department approval and University Advanced Standing

Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Creates a significant intellectual or creative product that is characteristic of the Information Systems discipline and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

INFO 497R**Independent Study****1 to 3:0:3 to 9** **On Sufficient Demand**

* Prerequisite(s): Department chair approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, at the discretion and approval of the department chairperson. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of \$35 for computers applies.

Course Descriptions

INFO 6420

Web and Mobile Application Security

3:3:0 **Fall**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

* Prerequisite(s) or Corequisite(s): IT 6300

Examines Web application vulnerabilities and remediation techniques. Explores various tools and techniques used to perform Web application assessments. Includes cross-site scripting, SQL injection, session management, and Web server configuration. Emphasizes practical skills developed through extensive hands-on exercises.

Intelligence Studies (INTS)

INTS 1000

Introduction to Intelligence Operations Studies

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Introduces the basic elements of intelligence: collection, analysis, dissemination, counterintelligence, and covert action. Examines the difference between intelligence and information. Describes the structure, functions, capabilities, and contributions of the national intelligence community, including Congress, the military, joint and unified commands, and law enforcement agencies. Identifies the various steps of the intelligence cycle and their purposes. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1010

Counterintelligence Investigations

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Introduces the principles, objectives, procedures, and reports used to conduct counterintelligence investigations within various investigational contexts. Assesses the planning, communicating, operating, credentialing, and investigating processes associated with counterintelligence investigations. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1020

Security Programs

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Introduces the principles, objectives, and basic procedures used to develop, account for, control, protect, and arrange for the eventual destruction of sensitive information and material. Prepares students for the investigation of security crimes and the protection of classified information and material in the custody of counterintelligence agents. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1030

Intelligence Law and Administration of Justice

1:1:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Introduces the legal principles of intelligence law as those principles apply to counterintelligence investigations and operations. Prepares students to use the principles of intelligence law and the administration of justice in the performance of their duties as counterintelligence agents. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1040

Analytical Process and Product

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Introduces the three analytical processes in the intelligence cycle: intelligence preparation of the battlefield, intelligence surveillance and reconnaissance, and targeting. Leverages analytical products associated with these processes such as PMESII, ASCOPE, Link-Pattern-Nodal analysis, threat characteristics, threat objectives, threat templates, the oil spot, and the situation template. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1050

Interrogation Operations

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Introduces the basic skills and knowledge to support the collection, dissemination, and protection of intelligence information during human intelligence operations. Applies conventional and unconventional sources with students performing as members of an interrogation team during simulated operations at both tactical and strategic levels. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1060

Map Reading and Analysis

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Applies map reading and analysis including marginal data, identification of terrain features, and calculation of azimuths. Teaches analytical skills essential to information gathering, collection capabilities, and interpretation of assets. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1080

Signal Theory

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Identifies the basic skills to intercept, analyze, and report non-communication signals. Includes the handling of classified material. Examines signal and wavelength theory, radar theory, electronic intelligence parameters, and basic collection operations. Assesses worldwide non-communications threats to include weapons systems operations, message information extraction, opposing forces operations, and situation analysis. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1090

Signal Analysis and Security

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Operates the applicable software. Displays automated situation map updates. Applies electronic messaging as part of an analysis control element team. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1100

Remote Sensing

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Analyzes hardcopy and softcopy imagery collected from the electronic magnetic spectrum. Utilizes intelligence databases as well as automated processing and dissemination systems to provide valid, accurate, and timely intelligence to appropriate agencies. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1110

Information Security for Intelligence Operations

1:1:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Assesses information security as it applies to intelligence operations in the military (INFOSEC). Examines specific INFOSEC issues, to include safekeeping and storage of classified materials, application of classification markings to appropriate documents, and proper destruction of classified materials. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1120**Imagery Analysis Techniques****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Develops the basic skills to successfully employ and analyze imagery in an operational environment. Introduces basic analytical techniques, sensor capabilities and limitations, characteristics of observed operational activity, spectral and stereoscopic imagery, and full motion video. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1130**Terrorism and Counterterrorism****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Examines the history of terrorism and the tactics and technologies used by terrorist groups. Assesses the nature of the terrorist threat and countermeasures to combat terrorism. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1140**Reporting of Intelligence Data****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Identifies the essential elements of information, selection of reporting vehicle, and production of concise and timely technical summaries. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 115R**Briefing Skills****1:1:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Produces the skills required to perform the duties and operations necessary to conduct briefings in the intelligence operations field. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah. May be repeated for a total of four credits toward graduation.

INTS 1160**Imagery Identification****6:6:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches how to use aerial images to identify threat and operational equipment, including: naval vessels; fixed, swing, and rotary wing aircraft; engineer and decontamination equipment; truck models and functions; armored personnel carriers (APCs); missiles, rockets, and launch sites; communication and radar sites; artillery and artillery related equipment; and tanks and armored recovery vehicles (ARVs). Teaches how to identify from aerial imagery organizations and activity in relation to the Ground Order of Battle (GOB). This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1170**Symbology****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches the skills necessary to translate incoming message traffic into military symbols. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1180**Intelligence Preparation of the Battlefield****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Identifies characteristics of the modern battlefield. Analyzes how the operational environment of the battlefield can affect friendly and threat operations. Defines the operational environment, considers the effects of weather and terrain, evaluates threat, and determines potential threat courses of action. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1190**Introduction to Communications for Intelligence Operations****3:2:3 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Tests basic oral communication in English for non-native speakers. Practices the fundamentals of oral communications in interpersonal, small-group, and large-group situations in the field of intelligence operations. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1200**Records Management****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Introduces the procedures, regulations, and forms used to accurately account for and manage an organization's records and funds. Provides an opportunity to practice skills as custodians in a simulated large agency operating environment. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1210**Counterintelligence Investigations II****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Analyzes the collection, evaluation, and use of information to produce justifiable conclusions in support of the counterintelligence mission. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1220**Intelligence Surveillance and Reconnaissance (ISR)****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches the Intelligence, Surveillance, and Reconnaissance (ISR) process across the scope of military operations from Joint Task Force level to Battalion level. Identifies the functions of the ISR process and its relationship to decision making. Requires development of an ISR plan, dissemination of information, and implementation of the plan. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1230**Targeting****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Examines the targeting process across the scope of intelligence operations. Introduces the Decide, Detect, Deliver, and Assess (D3A) methodology of targeting. Assesses the functions associated with the D3A methodology and how these functions interact with the decision-making process. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1240**Cellular Communication Fundamentals****3:3:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches cellular technologies used around the world to deploy enhanced wireless capabilities. Covers the evolution of cellular capabilities to current protocols and standards. Provides a comprehensive overview of the options available in handling voice and data transmitted through wireless technologies. Explores variations among Frequency Division Multiple Access (FDMA), Time Division Multiple Access (TDMA), Code Division Multiple Access (CDMA), and Global System for Mobile communications (GSM). This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1310**Personal Identification methods in Battlefield Forensics****2:2:0 On Sufficient Demand**

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Explores the methods used to identify individuals based on evidence collected at an incident scene in a battlefield environment. Emphasizes the identification, collection, and preservation of biological evidence for criminal investigations and legal procedures. Examines specific topics including: fingerprints, facial recognition, bloodstain analysis, and biometrics. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

Course Descriptions

INTS 1410

Battlefield Forensic Investigations I

4:3:3 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Examines battlefield forensic investigation procedures and techniques. Emphasizes incident scene management and the identification, collection, and preservation of material evidence related to the manufacture and use of improvised explosive devices (IEDs). This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 1420

Battlefield Forensic Investigations II

4:3:3 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Explores the technical aspects of the collection and preservation of physical evidence from a battlefield environment. Emphasizes the processes involved in identifying persons assembling improvised explosive devices (IEDs), and the tactics and techniques used in the employment of those devices. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2000

Collection Operations

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches source collection operations in the operational cycle, including: collection planning, identifying, assessing, recruiting, training, tasking, interviewing, and providing source operations support. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2020

Force Protection Operations and Support

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches how to assimilate, analyze, and distribute multidiscipline counterintelligence products in support of tactical force protection. Explores specific areas of interest, to include counterintelligence operations in a deployed environment and current threat assessment technology. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2030

Combating Terrorism

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches the history and development of terrorism. Includes recognizing the phases of a terrorist incident and how to understand a terrorist group's structure, degree of support, and scope of operations. Teaches use of basic analytical tools available to combat terrorism. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2040

Interrogation and Interview Techniques

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Describes how to prepare for and question a source, collect all information of intelligence value, and report this information in the proper format. Identifies appropriate approach and questioning techniques, effective listening and note-taking methods, source screening procedures, and proper exploitation phases to collect intelligence information. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2090

Automated Intelligence Systems

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Explores the use of automated intelligence systems in the field of intelligence operations. Assesses the basic system operations and conventions. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2100

Intermediate Remote Sensing

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Applies knowledge of intelligence operations and how they use observed activity in the analysis of hardcopy and softcopy imagery. Utilizes imagery databases to provide organizations with accurate and timely reports, intelligence briefs, and assessments based on given scenarios and Priority Intelligence Requirements (PIRs). This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 211R

Military Decision Making Process

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Assesses the mission analysis and the military decision-making process. Reviews situation analysis, problem analysis, and decision analysis. Examines the relationship between the decision maker and the decision environment. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah. May be repeated for a total of nine credits toward graduation.

INTS 2120

Intermediate Imagery Analysis Techniques

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Develops ability to apply photogrammetry techniques, equipment identification techniques, and softcopy and hardcopy imagery manipulation techniques to produce accurate imagery analyses and activity assessments. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2140

Reporting of Intelligence Data II

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches skills for the preparation of intelligence reports using pertinent information to satisfy the appropriate requirements. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 215R

Briefing Skills II

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Demonstrates advanced preparation and delivery of briefings in the intelligence operations field. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah. May be repeated for a total of nine credits toward graduation.

INTS 2200

Reporting of Intelligence Data III

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Examines tactical human intelligence (HUMINT) issues for the advanced intelligence operations practitioner maintaining a HUMINT-specific occupational specialty. Teaches how to plan and prepare timely and effective intelligence reports in both urban and rural environments. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2210

Counterintelligence Investigations III

3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Focuses on how to understand the objectives, apply the procedures, and produce the reports used in advanced counterintelligence investigations. Expands knowledge and abilities in the planning, communicating, operating, credentialing, and investigating processes related to advanced counterintelligence investigations. Designed for the tactical human intelligence (HUMINT) practitioner. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2230

Intelligence Law and Administration of Justice II

1:1:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Examines the legal principles and regulations of intelligence law as they apply to counterintelligence investigations and operations. Teaches the application of principles of intelligence law and of the administration of justice in the performance of duties as tactical human intelligence (HUMINT) practitioners. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2240

Force Protection Operations and Support II
3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Teaches the human intelligence (HUMINT) practitioner improved methods to assimilate, analyze, and distribute multidiscipline human products in support of tactical force protection operations. Focuses on human intelligence operations in a tactically deployed environment. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2250

Analytical Process and Product II
3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Explores the tactical human intelligence (HUMINT) field. Teaches the preparation of analytical tools to assess a combat environment. Analyzes conventional and unconventional threat forces, various types of organizations, and associated weapons and equipment, as well as the tactics, techniques, and procedures of groups or forces identified as posing a threat to U.S. interests. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2260

Interrogation and Interviewing Techniques II
3:3:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Provides advanced preparation for questioning a human intelligence source and to collect and report information that is of intelligence value. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2410

Management of Intelligence and Counterintelligence Operations I
4:4:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Studies the organizational management of intelligence and counterintelligence operations. Examines the theoretical and practical perspectives of managing increasing levels of responsibility, with emphasis on problem-solving and decision-making processes and on the role of the leader. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

INTS 2420

Management of Intelligence and Counterintelligence Operations II
4:4:0 On Sufficient Demand

* Prerequisite(s): Acceptance into the Intelligence Studies Program

Explores the managerial challenges related to the multidiscipline roles in intelligence and counterintelligence operations. Emphasizes the assessment of external and internal environments, strategic initiatives, and communication techniques, and the allocation and coordination of personnel and resources. This course is limited to students participating in the Utah National Guard's (UNG) Military Intelligence Education Program at Camp Williams in Bluffdale, Utah.

Integrated Studies (IS)

IS 2000

Knowledge Integrated
3:3:0 Fall, Spring

Introduces questions or problems whose answers or solutions require the integration of ideas and disciplines. Focuses on ideas from a variety of cultural perspectives. Covers how important thinkers through history have approached difficult questions in ways that integrated disciplines. Provides the opportunity to complete written assignments based on research.

IS 300R

Introductory Topics in Integrated Studies
3:3:0 Fall, Spring, Summer

* Prerequisite(s): (PHIL 2050 or 205H or 205G) and (ENGL 2010 or 2020 or 201H or 202H) and University Advanced Standing

Introduces a variety of topics crossing disciplines in science, religion, philosophy, history, literature, business, technology and the arts. Topics vary from semester to semester, but course remains modular in structure. Research and writing intensive. Requires final research paper. Involves writing across the curriculum. May be repeated for a maximum of 12 credits toward graduation.

IS 350R

Topics in Integrated Studies
3:3:0 Fall, Spring, Summer

* Prerequisite(s): (PHIL 2050 or 205H or 205G) and (ENGL 2010 or 2020 or 201H or 202H) and University Advanced Standing

Examines a particular interdisciplinary topic; topics vary from semester to semester. Presents topics that cross one or more fields of academic specialty from the arts and sciences. Includes lecture, reading, discussion and research. Research and writing intensive, requires final research paper. May be repeated for a maximum of 12 credits toward graduation.

IS 495R

Interdisciplinary Lecture Series
1:1:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Explores connections between various academic disciplines. Provides a broadly based look at a range of disciplines. May be repeated for a maximum of 3 credits towards graduation.

IS 4980

Integrated Studies Capstone I
3:3:0 Fall, Spring, Summer

* Prerequisite(s): IS 300R or IS 350R; Junior or Senior Standing in the Integrated Studies bachelor degree; and University Advanced Standing

Focuses on a major research paper integrating the student's two emphases. Addresses theoretical and practical problems associated with research and writing that combine disciplines. Includes work with a committee throughout the semester. Taken first semester in the two-semester capstone sequence.

IS 4990

Integrated Studies Capstone II
3:3:0 Fall, Spring, Summer

* Prerequisite(s): IS 4980 and University Advanced Standing

Focuses on a major research paper (senior thesis) integrating the student's two or more emphases. Addresses theoretical and practical problems associated with research and writing that combine disciplines. Includes work with a committee throughout the semester, which must approve the written thesis. Requires the student to orally present the thesis in a formal defense. Taken second semester in a two-semester capstone sequence.

Information Technology (IT)

IT 1200

Scripting for Administrators
3:3:0 On Sufficient Demand

* Prerequisite(s): MAT 1010 or higher; INFO 1120 recommended

Introduces the fundamentals of script design and implementation with an emphasis on the automation of administrative tasks. Covers modular script design and the use of file input and output. Emphasizes interaction of a script with other scripts, utilities, and the operating system to form more complex systems. Manipulates values of variables (both numbers and strings). Introduces simple GUI interfaces.

IT 1510

Introduction to System Administration--Linux/UNIX
3:3:0 Fall, Spring, Summer

* Prerequisite(s): INFO 1120 recommended

Introduces the UNIX Operating System using the popular Linux OS. Explores the Linux file system, Linux administration, OS utilities, and program features and uses. Aids the student in the development, understanding, and working knowledge of the details of the Linux Operating System, memory organization, disk architectures, and demand paged virtual memory. Includes OS installation, user creation, rights management, loading daemons, and server best practices. Lab access fee of \$35 for computers applies.

Course Descriptions

IT 1600

Computer Architecture and Systems

Software

3:3:0

Fall, Spring, Summer

* Prerequisite(s): INFO 1120 recommended

Provides a thorough grounding in computer hardware, system software, and contemporary information system architecture. Examines hardware structure, operating systems theory, and systems software as part of a technical foundation for enterprise systems development and IT infrastructure procurement and management. Lab access fee of \$35 for computers applies.

IT 1700

Cybersecurity Essentials

3:3:0

On Sufficient Demand

For non-Information Technology and non-Information Systems majors. Introduces cybersecurity and its role in society in a nontechnical way. Explores cybersecurity topics, including protecting accounts, securing data, and avoiding phishing scams. Discusses current hacking and cybersecurity events. Identifies best practices for personal cybersecurity. Provides basic introduction to cybersecurity tools.

IT 2400

Voice and Data Cabling Fundamentals

3:3:0

Fall, Spring, Summer

* Prerequisite(s): INFO 1120 or INFO 1200 or CS 1030 or CS 1400

For students interested in the physical aspects of voice and data network cabling and installation. Focuses on cabling issues related to data and voice connections and provides an understanding of the industry and its worldwide standards. Covers types of media and cabling, physical and logical networks, as well as signal transmission. Focuses on best practices and safety using copper and fiber-optic cabling. Requires students to install a complete cable infrastructure for a simulated telecommunications room. Enforces industry and worldwide standards. Requires a community project and portfolio based on voice/data cabling skills. Lab access fee of \$35 for computers applies.

IT 2530

Introduction to System Administration--Windows Client

3:3:0

Fall, Spring

* Prerequisite(s): IT 1600

Introduces operation management of operating systems using Microsoft Windows. Introduces installation methods and troubleshooting, hardware device installation and management, storage management, disaster recovery planning and management. Aids the student in the development, understanding, and working knowledge of the Windows networking framework including peer-to-peer, workgroups, user profiles, domains, NTFS, and share-level permissions. Lab access fee of \$35 for computers applies.

IT 2600

Data Communication Fundamentals

3:3:0

Fall, Spring, Summer

* Prerequisite(s): INFO 1120 recommended or IT 1600 recommended or CS 1400 recommended

Provides an in-depth knowledge of data communications and enterprise networking including networking and telecommunications technologies, hardware, and software. Emphasizes underlying technologies and protocols. Design topics include wired and wireless architectures; topologies, models, standards and protocols; and operation of bridges, routers, switches, and gateways. Includes lab assignments covering TCP/IP implementations. May be delivered hybrid. Lab access fee of \$35 for computers applies.

IT 2700

Information Security Fundamentals

3:3:0

Fall, Spring, Summer

* Prerequisite(s): IT 2600 or CS 2600; (IT 1600 recommended)

Explores introductory information and cybersecurity concepts: security technologies, methodologies, and tools. Topics include security models, risk assessment, threat analysis, attack types, encryption technologies, security implementation, access controls, business continuity, and security policies. Discusses current topics, trends, and career opportunities in information security. Includes lab assignments covering information security principles. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

IT 2800

Computer Forensic Fundamentals

3:3:0

Fall, Spring, Summer

* Prerequisite(s): INFO 1120 or IT 1600 or CS 1400 or CJ 1010

Explores procedures for identification, preservation, and extraction of electronic evidence. Emphasizes auditing and investigation of network and host system intrusions, analysis and documentation of information gathered, and preparation of expert testimonial evidence. Examines forensic tools and resources for system administrators and information system security officers. Includes ethics, law, policy, and standards concerning digital evidence. Requires lab experience and a research paper or project. Lab access fee of \$35 for computers applies.

IT 281R

Internship

1 to 4:0:5 to 20

On Sufficient Demand

* Prerequisite(s): Department Approval

Provides opportunities to apply classroom theory on the job. Requires work as paid employees in a job that relates to their careers while enrolled at the university. Requires students to meet at least monthly with the Departmental Internship Coordinator. Requires completers to meet individually set goals. May be repeated for a maximum of three credits toward graduation. May be graded credit/no credit.

IT 290R

Current Topics in Information Technology

1 to 3:1 to 3:0

On Sufficient Demand

* Prerequisite(s): Departmental Approval

Provides exposure to current and emerging information technologies. May be used to provide content to prepare students to take industry-recognized IT certification exams, such as CompTIA Linux+, CompTIA A+, Apple Certified Professional, Certified Fiber Optic Technician, IC3, CompTIA Network+, CompTIA CTP+, Access Data Certified Examiner, MCSA, Cisco CompTIA Security+, Certified Ethical Hacker, etc. Varies each semester. May be repeated for a maximum of 6 credits toward graduation. Lab access fee of \$35 for computers applies.

IT 3350

Intellectual Property and Cyber Law

3:3:0

Fall, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and (PRLG 1000 or CS 1030 or INFO 1120 or LEGL 3000) and University Advanced Standing

Focuses on trademarks, copyrights, patents, and unfair competition, and examines legal requirements to create, register and protect intellectual property rights. Examines domestic and international trends in this developing legal area. Teaches legislation and case law concerning technology, professional responsibilities, risks, and liabilities. Discusses intellectual property rights and responsibilities pertaining to technology. Lab access fee of \$35 for computers applies.

IT 3400

Data Cabling Signal Characteristics

3:3:0

On Sufficient Demand

* Prerequisite(s): INFO 1120 or INFO 1200 or CS 1030 or CS 1400 or MECH 1200

For EART/Mechatronics majors or students interested in the physical aspects of data network signal characteristics, cabling and installation for those signals. Focuses on cabling issues related to data and voice connections and provides an understanding of the industry and its worldwide standards. Covers types of media and cabling, physical and logical networks, as well as signal transmission. Focuses on best practices and safety using copper and fiber-optic cabling. Requires students to install a complete cable infrastructure for a simulated telecommunications room. Enforces industry and worldwide standards. Requires a community project and portfolio based on voice/data cabling skills. Requires a research paper.

IT 3510

Advanced System Administration--Linux/UNIX

3:3:0

Fall, Spring, Summer

* Prerequisite(s): [INFO 1200 and IT 1510 and (IT 2600 or CS 2600) all with a grade of C- or higher within the past five years] and University Advanced Standing

Explores enterprise systems administration using the UNIX/Linux operating system. Students learn advanced administrative tasks including server installation, network configuration and user management, file management, network services deployment, server security, back up and recovery, Shell scripting, source compilation, performance monitoring and tuning, troubleshooting, and managing hardware and component changes. Requires a community project and portfolio based on advanced server management skills. Lab access fee of \$35 for computers applies.

IT 3530**Advanced System Administration--
Windows Server****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): [INFO 1200 and IT 2530 and (IT 2600 or CS 2600) all with a grade of C- or higher within the past five years] and University Advanced Standing

Explores enterprise systems administration using the Microsoft Windows Server operating system. Students learn advanced administrative tasks including server installation; hardware change management; software application management; network configuration and user management; file management; printing; network services deployment; server security; back up and recovery; scripting; performance monitoring, tuning, and troubleshooting. Lab access fee of \$35 for computers applies.

IT 3540**Mac OS and Server Support****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): [INFO 1200 and IT 1510 and (IT 2600 or CS 2600) all with a grade of C- or higher within the past five years] and University Advanced Standing

Provides an in-depth exploration of the Mac OS X, and provides the skills to troubleshoot and correct problems that may arise by users. Teaches installation and configuration of a Mac OS X Server. Involves implementing and maintaining a Mac server in a network, including file sharing, mail, web, and wikis. Software fee of \$14 applies. Lab access fee of \$35 for computers applies.

IT 3600**Internetworking and Router Management****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): [(INFO 1200 or CS 1400) and (IT 2600 or CS 2600) all with a grade of C- or higher within the past five years] and University Advanced Standing

Teaches the theory and implementation skills and techniques needed to configure, troubleshoot and support reliable TCP/IP internetworks. Discusses security and management issues. Offers the opportunity to build an internetwork with cables, network cards, and routers. Emphasizes the analysis and design of networks in organizations. Includes lab assignments covering TCP/IP implementations and router configurations. Lab access fee of \$35 for computers applies.

IT 3650**Information Storage and Management****3:3:0** **On Sufficient Demand**

* Prerequisite(s): IT 1600, IT 2600, and University Advanced Standing

Presents concepts, principles, and deployment considerations across all technologies that are used for storing and managing information. Describes challenges and solutions for data storage and data management, intelligent storage systems, and storage networking. Studies backup, recovery, and archive processes. Discusses business continuity, disaster recovery, storage security and virtualization, and managing and monitoring the storage infrastructure. Software fee of \$192 applies. Lab access fee of \$35 for computers applies.

IT 3700**Information Security--Network Defense and Countermeasures****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): IT 1510, IT 2700, (IT 3510 or IT 3530), and University Advanced Standing
* Prerequisite(s) or Corequisite(s): IT 3600

Examines advanced information security concepts through an applied viewpoint. Extends the student's understanding of security issues through hands-on application of real-world techniques and use of current security software. Topics include legal/ethical issues, use of security tools, network reconnaissance, password/brute-force attacks, firewall configuration, Honeypot deployment, intrusion analysis/detection, server hardening, and penetration testing. Guest lecturers provide insight into current trends in advanced security issues. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

IT 459R**Current Topics in Information Technology
On Sufficient Demand**

3:3:0
* Prerequisite(s): (Junior Standing or Department Approval) and University Advanced Standing

Provides exposure to emerging technologies and topics of current interest in information technology. Varies each semester depending upon the changes in the information technology discipline or to address a focused area within the information technology discipline. May be repeated for a maximum of 9 credits toward graduation. Lab access fee of \$35 for computers applies.

IT 4600**Enterprise Network Architectures and Administration****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): IT 3600 and University Advanced Standing

Examines management of resources used in enterprise computing environments from a practical, applied viewpoint. Extends the student's understanding of these concepts through hands-on application of real-world network, server, and software management techniques and addresses the problems associated with providing a secure, stable, reliable enterprise computing infrastructure. Includes principles of IT enterprise infrastructure management; configuration, analysis, and troubleshooting of virtual servers; redundancy and failover; directory service integration, access control and security; uptime monitoring and notification; backup and recovery; Storage Area Networking; Cloud computing platform choices, functionality, cost, deployment, flexibility, and adaptability. Lab access fee of \$35 for computers applies. Software fee of \$118 applies.

IT 4700**Enterprise Information Security
Management****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): IT 2700 and University Advanced Standing
* Prerequisite(s) or Corequisite(s): INFO 3430

Provides perspective of key issues involved in IT activities across the organizational and technical security landscape. Examines management methodologies, staffing, and operational issues. Teaches use of financial analysis and decision-making methodologies to aid investment decisions at the operational, functional, and strategic levels. Illustrates use of risk assessment and contingency planning as applied to business continuity and disaster recovery strategies. Includes the use of Service Level Agreement for managing both internal and external relationships. Lab access fee of \$35 for computers applies.

IT 4750**Network Security and Operations Capstone****3:3:0** **Fall, Spring**

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): IT 4700

Senior-level, capstone experience course. Enhances student cyber security knowledge with operational and business applications. Focuses on integrating cyber security principles as an organic part of an organization's processes. Covers barriers to implementing security policy, building a business case for cyber security, and incorporating cyber security into project management and software life cycles. Requires student project presentations. Lab access fee of \$35 for computers applies.

IT 4760**Case Studies in Cyber Security****3:3:0** **On Sufficient Demand**

* Prerequisite(s): IT 2700 and University Advanced Standing

Discusses current trends and issues in cyber security. Updated regularly to reflect global events related to cyber security. Topics include data breaches, cyber warfare, emerging threats. Emphasis on the changing and transformative nature of cyber security threats, including geographical, institutional, and cultural evolution. Guest lecturers from industry will provide students with perspectives on the state of cyber security. Examines real-world examples of the application of cyber security principles and requires critical analysis of each case. Lab access fee of \$35 for computers applies.

IT 4800**Advanced Mobile Devices Forensics****3:3:0** **Spring**

* Prerequisite(s): (IT 2800 or FSCI 3800) and University Advanced Standing; IT 3540 recommended

A continuation of IT 2800. Teaches students about additional devices that can store digital information. Exposes students to devices such as cell phones, PDAs, Tablets, MP3 players, digital camera/camcorders, and GPS units. Includes lab investigations of one or more digital media through image acquisition, data recovery, and assembly of a final written report of findings. Requires students to use multiple software tools in device acquisition and analysis. Includes weekly written papers covering topics in the field of digital forensics. Lab access fee of \$35 for computers applies.

Course Descriptions

IT 481R

Internship

1 to 8:0:5 to 40 **Fall, Spring, Summer**

* Prerequisite(s): (IT 3510 or IT 3530 or IT 3540 or IT 3600 or IT 3700 or department approval) and University Advanced Standing

For Information Technology bachelor's degree students. Provides opportunities to apply upper-division classroom theory while students work as employees in a job that relates to their careers. Meet periodically with a Departmental Internship Coordinator. Credit is determined by the number of hours a student works during the semester and completion of individually set goals that relate to the student's selected emphasis. Prior written department chair approval is required to apply more than three credits toward a Bachelor of Science Degree in Information Technology. May be graded credit/no credit.

IT 4850

Digital Forensics Investigations

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (IT 2800 or FSCI 3800) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): FSCI 3400

Senior Capstone course for students in the Computer Forensics emphasis. Covers one or more investigations from start to finish. Integrates knowledge and skills from previous CJ, FSCI, and IT courses in this culminating experience. Lab access fee of \$35 for computers applies.

IT 489R

Undergraduate Research in Information Technology

1 to 4:0:5 to 20 **On Sufficient Demand**

* Prerequisite(s): Department approval and University Advanced Standing

Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Creates a significant intellectual or creative product that is characteristic of the Information Technology discipline and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

IT 497R

Independent Study

1 to 3:0:3 to 9 **On Sufficient Demand**

* Prerequisite(s): Department chair approval and University Advanced Standing

For bachelor degree students and other interested persons. Offers independent study as directed in reading, in individual projects, at the discretion and approval of the department chairperson. May be repeated for a maximum of 9 credits toward graduation.

IT 6300

Principles of Cybersecurity

3:3:0 **Fall**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

Provides foundational knowledge of cybersecurity for graduate-level studies. Covers information security theories, terminology, and implementation. Includes networking and system fundamentals, cryptography, malware, authentication, authorization, access control, physical security, attacker profiles, appropriate threat responses, and the human elements of cybersecurity. Introduces multiple aspects of cybersecurity and various career paths within the field.

IT 6330

Cybersecurity Operations

3:3:0 **Fall**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

Focuses on operational aspects of cybersecurity. Includes incident response, network monitoring, change management, configuration management, and resource protection. Emphasizes the role of cybersecurity in the enterprise. Integrates sound cybersecurity principles into various aspects of IT operations. Includes information on secure server administration and open source security software. Teaches cybersecurity standards for government and industry sources and the application of those standards.

IT 6350

Law/Ethics/Privacy in Cybersecurity

3:3:0 **Spring**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

Explores legal, ethical, and privacy issues as they apply to cybersecurity. Includes the legalities and ethics of hacking, corporate information security and use policies, and the government's role in cybersecurity. Emphasizes the roles and responsibilities of individual cybersecurity practitioners as well as corporate entities, including vulnerability disclosure and correcting software defects. Teaches privacy policies and regulations as they relate to cybersecurity and information systems.

IT 6370

Penetration Testing and Vulnerability Assessment

3:3:0 **Summer**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

* Prerequisite(s) or Corequisite(s): IT 6300

Explores advanced topics in ethical hacking, penetration testing, vulnerability assessment, and other offensive network and system techniques. Teaches network scanning, target identification, application exploitation, antivirus evasion, physical security, social engineering, phishing, and privilege escalation. Contains hands-on labs providing experience from the perspective of an attacker.

IT 6660

Advanced Network Forensics

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

* Prerequisite(s) or Corequisite(s): IT 6300

Provides a standard methodology for conducting digital forensic analysis in a network environment. Teaches the importance of network forensic principles and development of an understanding of the technologies, protocols, laws, regulations, ethics, and procedures for network forensics. Incorporates demonstrations and laboratory exercises covering the identification, acquisition, authentication, preservation, analysis, and reporting of evidence for prosecution purposes.

IT 6740

Advanced Network Defense and Countermeasures

3:3:0 **Spring**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

* Prerequisite(s) or Corequisite(s): IT 6300

Explores advanced topics in network defense, server hardening, vulnerability assessment, and mitigation scanning. Teaches students about network scanning, asset identification, Linux and Windows server hardening, anti-malware tools, intrusion detection, physical security, perimeter security, and cybersecurity awareness training. Contains hands-on labs providing experience from the perspective of a defender. Lab access fee of \$35 for computers applies.

IT 6750

Reverse Engineering and Malware Analysis

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

* Prerequisite(s) or Corequisite(s): IT 6300

Explores the analysis tools and techniques for identifying malicious programs and recovering compromised operating systems. Provides a standard methodology for reverse engineering and eradicating malware. Includes setting up isolated malware labs and utilizing a selected set of forensic tools, such as system and network monitoring utilities, disassemblers, and debuggers for analyzing malware characteristics and the impact that malware may have on compromised systems.

IT 6760

Case Studies in Cybersecurity

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Acceptance into Graduate Certificate or Master of Science in Cybersecurity or Departmental Approval

* Prerequisite(s) or Corequisite(s): IT 6300

Discusses current trends and issues in cybersecurity. Reflects current global events related to cybersecurity. Includes data breaches, cyber warfare, and emerging threats. Emphasizes the changing and transformative nature of cybersecurity threats, including geographical, institutional, and cultural evolution. Provides guest lecturers from industry with perspectives on the state of cybersecurity. Examines real-world examples of the application of cybersecurity principles and requires critical analysis of each case. Lab access fee of \$35 for computers applies.

IT 6770

Cybersecurity Management

3:3:0 **Summer**

* Prerequisite(s): IT 6300 or Departmental approval

Teaches management skills applicable to cybersecurity. Includes governance models, business continuity, disaster recovery, risk management, organizational security, cybersecurity life cycle management, and interactions between information technology and business units. Focuses on policies, procedures, and guidelines based on industry and government standards to fulfill legal, regulatory, and operational requirements. Lab access fee of \$35 for computers applies.

IT 6780

Secure Coding

3:3:0 **Fall**

* Prerequisite(s): IT 6300 or departmental approval

Focuses on fundamentals of secure coding and current topics in application security. Includes the implementation of secure development lifecycle principles, identifying and mitigating issues in existing applications, and common security issues. Covers the most frequently encountered application security risks and how to address each of them. Includes web applications, mobile applications, and traditional desktop applications. Lab access fee of \$35 for computers applies.

IT 6900

Cybersecurity Capstone

3:3:0 **Spring**

* Prerequisite(s): IT 6330, IT 6350, IT 6370, IT 6740, and IT 6770

Provides culmination of cybersecurity in a self-directed research or practical project that showcases student's mastery of cybersecurity topics. Provides an opportunity to conduct research and/or implement systems that incorporate topics from previous courses. Requires students to present their work at the end of the semester.

Japanese (JPNS)

JPNS 1010 **LH**

Beginning Japanese I

4:4:1 **Fall, Spring**

Writing and reading Hiragana and Katakana, listening, speaking in the basic grammar structure, expressing opinions and describing things in a limited situation. Lab access fee of \$10 applies.

JPNS 1020 **LH**

Beginning Japanese II

4:4:1 **Fall, Spring**

* Prerequisite(s): Students need equivalent knowledge of JPNS 1010

Reviews and builds further language skills upon the grammar, reading, writing, and conversation skills learned in the first year courses. Lab access fee of \$10 applies.

JPNS 115R

Japanese Conversation I

1:1:0 **Fall, Spring**

Offers novice Japanese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

JPNS 1500

The Art of Japanese Calligraphy

2:2:0 **Fall, Spring**

Introduces the origin of the art of calligraphy, the reasons why calligraphy developed and became so popular in Japan, works done by famous calligraphers, how to handle a brush and India ink, and how to write letters with a brush. Demonstrates the proper usage of the brush, correct stroke orders, and develops the skills of writing letters (start from level 1- easy to level 8- difficult) with a brush.

JPNS 2010 **LH**

Intermediate Japanese I

4:4:1 **Fall, Spring**

* Prerequisite(s): Students need equivalent knowledge of JPNS 1020

Reviews and builds further language skills upon the grammar, reading, writing, and conversation skills learned in the first year courses. Lab access fee of \$10 applies.

JPNS 202G **HH**

Intermediate Japanese II

4:4:1 **Spring**

* Prerequisite(s): Students need equivalent knowledge of JPNS 2010

Reviews and builds further language skills upon the grammar, reading, writing (including Kanji knowledge), and conversation skills learned in the previous JPNS 1010, 1020, and 2010. Introduces reading of a variety of texts in Japanese. Lab access fee of \$10 applies.

JPNS 2110

Conversational Japanese

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Students need equivalent knowledge of JPNS 1020

Emphasizes conversation in real-life situations that may be encountered in Japan. Focuses on vocabulary and structures. Introduces a variety of readings and multimedia materials and promotes oral proficiency.

JPNS 215R

Japanese Conversation II

1:1:0 **Fall, Spring**

* Prerequisite(s): Students should have equivalent knowledge of JPNS 1020

Offers lower division / novice Japanese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

JPNS 251G

Introduction to Japanese Culture and Society

3:3:0 **Fall**

Introduces Japanese culture and society by exploring its history, religion, government, customs and traditions. Analyzes and evaluates the differences and similarities between Japanese and American cultures. Taught in English and little or no Japanese language skill required. Fulfills the requirements for a G/I course.

JPNS 3050

Advanced Japanese

3:3:0 **Fall, Spring**

* Prerequisite(s): JPNS 202G, one year residency in Japan, or instructor approval

For non-native Japanese speakers who have attained a fairly good mastery of basic Japanese and some Kanji reading skills. Focuses on the development of all language skills with emphasis on grammar review, reading and writing. Overviews Japanese culture and introduces Japanese literature. Lab access fee of \$10 applies.

JPNS 315R

Advanced Japanese Conversation

1:1:0 **Fall, Spring**

* Prerequisite(s): JPNS 202G or one year residency in a Japanese-speaking country, or instructor approval. University Advanced Standing.

Offers speaking opportunities to middle or upper division Japanese learners to enhance their speaking proficiency in high level language by focusing on oral and verbal production. Improves authentic pronunciation, reduces grammatical and structural errors, and aids student progression beyond translation to natural production. May be repeated for a maximum of 3 credits toward graduation.

JPNS 3200

Business Japanese

3:3:0 **On Sufficient Demand**

* Prerequisite(s): JPNS 3050 and University Advanced Standing

For those who plan to pursue careers in international business or related fields, learn the business language for Japanese, and understand related cultural protocol in Japanese society. Prepares students to take the Business Japanese Proficiency Tests sponsored by the Japan External Trade Organization (JETRO). Explores how students can effectively and respectfully pursue business activities with Japanese companies within the framework of Japanese culture. Taught predominantly in Japanese.

JPNS 351G

Japanese Culture and Civilization

3:3:0

* Prerequisite(s): JPNS 3050 and University Advanced Standing

Explores chronologically the cultural formation and development of Japan. Examines and discusses the ethnic development and linguistic history from ancient to modern Japanese society. Analyzes and evaluates the differences and similarities between the Japanese and American cultures. Class instruction and presentations in Japanese. Fulfills the requirements for a G/I course.

Course Descriptions

JPNS 3520

Society and Business in Japan

3:3:0 On Sufficient Demand

* Prerequisite(s): JPNS 3050 and University Advanced Standing

Builds upon the knowledge acquired in JPNS 3200, explores a multitude of aspects that contribute to Japanese national identity, focuses on Japan's complex vertical society, considers the intricacies of Japanese expressions and meanings relative to business and social applications, and studies the Japanese values and priority system. Also references Japan's national and global economic involvement and ways students can interface with it.

Languages (LANG)

LANG 1000

English Literacy for Deaf Students

5:5:0 On Sufficient Demand

* Prerequisite(s): Deaf students fluent in American Sign Language

Individually tailored English course taught entirely in ASL. Covers a variety of topics to prepare Deaf students for entrance to courses satisfying college English requirements. Topics of study, which vary by semester and by student need, include grammar, usage, reading comprehension and analysis, sentence construction, paragraph composition, and thematic approaches to writing. Uses students' experience with American Sign Language and Deaf culture as the basis for instruction in English as a Second Language.

LANG 281R

Language Internship

1 to 8:0:5 to 40 On Sufficient Demand

* Prerequisite(s): Department approval

Provides supervised, practical, and professional experience for students preparing for careers related to languages. May be repeated for a maximum of eight credit hours. May be graded credit/no credit.

LANG 291R

Independent Study

1 to 3:0 to 3:0 to 12 On Sufficient Demand

Designed primarily for students who will travel or live in a foreign country for a period of time and want to participate in an instructor-directed academic experience worthy of one to three hours of credit. May also be used similarly for directed studies, either on or off campus, dealing with a foreign language or culture.

LANG 3000 (Cross-listed with: ANTH 3000) LH

Language and Culture

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010, (ANTH 101G or any foreign language 2010 course), Sophomore status, and University Advanced Standing

Introduces cultural linguistics. Analyzes features of human languages that make possible semantic universality. Examines distinction between phonetic and phonemic units. Explores relationship between language and culture. Studies how language shapes culture and how culture shapes language.

LANG 3010

Introduction to Linguistics

3:3:0

* Prerequisite(s): University Advanced Standing

Focuses on achieving an understanding of language as a group of distinct yet complementary systems which interact to enable human communication, e.g., phonology, morphology, syntax, semantics, and pragmatics. Introduces implications of how languages reflect the cultures in which they are used, and discusses how language is learned, processed and interpreted and how languages change over time.

LANG 312R (Cross-listed with: CINE 312R)

National Cinema History

3:3:0

* Prerequisite(s): ENGL 2010 and University Advanced Standing

Covers a single national cinema tradition from the early days of film to the present. Explores representative films from a nation's cinematic chronology, considering major themes, movements, controversies, and artists. Considers social and political contexts as related to the national film output. May be repeated for a maximum of 9 credits toward graduation.

LANG 4200

Methods of Teaching a Foreign Language

3:3:0 Fall

* Prerequisite(s): (Matriculation into any secondary education bachelor degree program or departmental approval) and University Advanced Standing

For those who plan to certify to teach a foreign language. Addresses learning approaches, methods, evaluation procedures, text analysis, and other techniques for teaching and evaluating language learning. Includes discussion about professional organizations and other resources in the field. Taught entirely in English.

LANG 450R

Translation Technology

3:3:0

* Prerequisite(s): (CHIN 3050 or FREN 3050 or GER 3050 or JPNS 3050 or PORT 3050 or RUS 3050 or SPAN 3050) and University Advanced Standing

Provides the environment for students to acquire speed and proficiency in translation. Allows students to become proficient in the use of CAT (Computer Assisted Translation) tools. Prepares students and translators of any language to obtain an SDL Trados Certification. Includes class discussion, translation practice, analysis of translation practice and a student portfolio. May be repeated for a maximum of 9 credits toward graduation.

LANG 481R

Language Internship

1 to 8:0:5 to 40 On Sufficient Demand

* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides students real-world, closely-supervised work experiences in positions directly related to their language studies. Includes a theoretical component such as, but not limited to, papers, projects, completion of reading assignments, tests, journaling, field studies, etc. Students desiring to do language internships must get department approval and must meet with a faculty sponsor to determine individual credit hours and requirements. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

LANG 490R

Special Topics in Languages

1 to 3:1 to 3:0

* Prerequisite(s): Department Approval and University Advanced Standing

Provides an opportunity to undertake a well-defined project or academically rigorous independent research in languages. May include formal instruction and collaboration with faculty and other students. May be repeated for a total of 6 credits toward graduation.

Latin (LATN)

LATN 1010

Beginning Latin I

4:4:0

LH

Fall

Allows students the opportunity to study Latin at the introductory level. Focuses primarily on Ancient Latin. Develops basic Latin reading skills with the help of grammar and translation exercises. Profoundly strengthens students' general understanding of grammar, syntax, and word formation in any language, particularly Romance and Germanic languages (including English).

LATN 1020

Beginning Latin II

4:4:0

* Prerequisite(s): LATN 1010 or equivalent

LH

Spring

Allows students the opportunity to continue to study Latin at the introductory level. Focuses primarily on Ancient Latin. Develops more advanced Latin reading skills, with the help of grammar and translation exercises. Study of Latin profoundly strengthens students' general understanding of grammar, syntax, and word formation in any language, particularly Romance and Germanic languages (including English).

LATN 2010

Intermediate Latin I

4:4:0

* Prerequisite(s): LATN 1020 or equivalent

LH

Fall

Studies Latin at the intermediate level. Develops more advanced reading skills through the translation of selected Classical Latin texts.

LATN 2020

Intermediate Latin II

4:4:0

* Prerequisite(s): LATN 2010 or equivalent

On Sufficient Demand

HH

Continues study of Latin at the intermediate level. Develops more advanced reading skills through the translation of selected Classical Latin texts.

LATN 3010

Readings in Latin

3:3:0

* Prerequisite(s): (LATN 2020 or equivalent) and University Advanced Standing

On Sufficient Demand

Studies Latin beyond the intermediate level through translation of original Classical or Medieval Latin texts.

Legal Studies (LEGL)

LEGL 1010

Survey of Law

3:3:0

On Sufficient Demand

Covers the history and development of present-day law practice, including specialized areas of practice. Completers should be able to describe the American court system, know and use legal vocabulary, have a basic understanding of different substantive areas of law. Lab access fee of \$32 for computers applies.

LEGL 1110

Civil Litigation

4:4:0

Fall, Spring

* Prerequisite(s): PRLG 1000, ENGL 1010

Overviews court system, emphasizing the Utah State Courts, civil procedural and evidentiary rules, and stages of civil litigation. Emphasizes the paralegal's role in investigation, preparation, and resolution of lawsuits. Lab access fee of \$32 for computers applies.

LEGL 2000

Culture of Law

2:2:0

Fall, Spring

Survey course that discusses the impact of earning a law degree; professional options open to a JD; and how to manage one's career; through lectures on pertinent issues, opportunities to interview lawyers, by film, speakers sharing their experience about different aspects of their career, opportunities to read and write on legal issues.

LEGL 2350

Evidence

3:3:0

Fall, Spring

* Prerequisite(s): PRLG 1000

Examines the admissibility of evidence in both a civil and criminal trial context. Studies the Federal Rules of Evidence, and the privileges, challenges, advancements in technology and emerging issues in the use of evidence in American courts.

LEGL 258R

Special Topics in Legal Studies

3:3:0

Spring

* Prerequisite(s): PRLG 1000

Provides exposure to emerging topics of current interest in the Legal field. Topics vary each semester. May be repeated for a maximum of 6 credits toward graduation.

LEGL 2830

Legal Studies Capstone

3:3:0

Fall, Spring

* Prerequisite(s): LEGL 1110, LEGL 3000

A capstone course for the Associate's Degree in Legal Studies. Provides integration of all functional paralegal skills via mock trials. Requires the student to write a legal memorandum analyzing a particular case and to present a legal issue to the class.

LEGL 290R

Law Society

1:1:0

Fall, Spring

Elective credit for students interested in law or law-related professions. Provides a program of activity relating to current legal issues, encouraging social awareness and developing law and civic consciousness. Students arrange for guest speakers from the legal and criminal justice professions to present information concerning their professions. Teaches leadership skills by serving on committees. Pass/Fail grade issued. Paralegal majors and criminal justice majors may repeat this course for a total of three elective credits towards graduation. Each student must participate in the service project and fundraiser for a passing grade.

LEGL 3000

Business Law

3:3:0

Fall, Spring, Summer

* Prerequisite(s): ENGL 1010 and University Advanced Standing

For School of Business students and others desiring a more complete understanding of business law. Presents the American legal system, constitutional law, statutory law, common law, and administrative law and alternatives to courts. Discusses crimes, torts, negligence, contracts, negotiable instruments, and contractual relationships. May be delivered online. Lab access fee of \$32 for computers applies.

LEGL 300H

Business Law

3:3:0

Fall, Spring

* Prerequisite(s): ENGL 1010 and University Advanced Standing

For School of Business students and others desiring a more complete understanding of business law at an honors level. Presents the American legal system, constitutional law, statutory law, common law, and administrative law and alternatives to courts. Discusses crimes, torts, negligence, contracts, negotiable instruments, and contractual relationships.

LEGL 3130

Real Estate Principles and Finance

3:3:0

* Prerequisite(s): ENGL 1010 or equivalent.

Includes the nature of real property, estates in land, transfer of real property rights, encumbrances, public restrictions, and contracts. Discusses ownership in real estate, settlement, taxation, real estate finance, math in real estate applications, and real estate valuation and appraisal. Lab access fee of \$32 for computers applies.

LEGL 3140

Real Estate Law

3:3:0

* Prerequisite(s): ENGL 1010 or equivalent.

Explores the legal implications of ownership of real property, including property management and new construction. Also covers federal and Utah-specific law, and Utah licensing testing and review. Lab access fee of \$32 for computers applies.

LEGL 3150

Survey of Dispute Resolution

3:3:0

Fall

* Prerequisite(s): (PRLG 1000 or LEGL 3000 or PSY 1010 or SOC 1010 or SW 1010) and University Advanced Standing

Offers an introduction to the most commonly practiced dispute resolution processes, including negotiation, mediation, arbitration, and litigation. Studies conflict resolution theory and explores contemporary dispute resolution policy issues. Involves participation in simulations of various dispute resolution processes, including interviewing and counseling, negotiation, mediation, and arbitration.

LEGL 3170

Real Estate Contracts and Agency

3:3:0

Spring

* Prerequisite(s): ENGL 1010 or equivalent

Explores the intricacies of contracts and agency relationships in real estate transactions, including uniform real estate contracts, agency agreements and principles, the Utah standard Real Estate Purchase Contract, and other related issues.

LEGL 3210

Interviewing and Investigations

3:3:0

Spring

* Prerequisite(s): University Advanced Standing

Overview of how to conduct a factual investigation in various contexts, including criminal and civil cases, with particular emphasis on interviewing witnesses. Includes technology-driven investigative tools, social media, the Freedom of Information Act and other resources, and the ethical and legal limitations on investigative techniques.

LEGL 3250 (Cross-listed with: POLS 3250)

Introduction to Law and Politics

3:3:0

Fall

* Prerequisite(s): (POLS 1010 or Instructor Approval) and University Advanced Standing

Examines the relationship between law and politics. Addresses the impact politics have on the judiciary and the strengths and weaknesses of law as a means of social order. Focuses on general issues of legal and political theory and the social and political function of law.

LEGL 3310

Marketing Law

3:3:0

Spring

* Prerequisite(s): ENGL 1010 and University Advanced Standing

For School of Business marketing students and others desiring a more complete understanding of marketing law. Broadly presents the American legal system, with special attention to issues in constitutional law, statutory law, common law, and administrative law and alternatives to courts with respect to marketing. Discusses crimes, torts, negligence, contracts, negotiable instruments, intellectual property, and contractual relationships.

Course Descriptions

LEGL 3410

Mediation and Negotiation

3:3:0 **Fall**
* Prerequisite(s): PRLG 1000 or LEGL 3000 and University Advanced Standing

Prepares students to knowledgeably understand and participate on a basic level in the process of mediation and negotiation in a legal context. Focuses on conceptual knowledge of both process and practical skills and effectiveness as a mediator and negotiator.

LEGL 3530 (Cross-listed with: HR 3530, MGMT 3530)

Employment and Labor Law

3:3:0 **Fall**
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Covers employment and labor law, cases, and policy. Includes employment discrimination along with labor relations statutes exploring the link between employment discrimination and traditional labor relations law. Presents tools necessary to formulate and write policy for profit and non-profit organizations. Includes lecture, class discussions, case studies, a service learning project, and guest speakers.

LEGL 3650

Tort Law

3:3:0 **Spring**
* Prerequisite(s): PRLG 1000, (ENGL 2010 or ENGL 2020), and University Advanced Standing

Provides instruction in theory and practice of tort and injury law. Successful completers should know and use legal vocabulary and demonstrate an understanding of tort and injury law. Lab access fee of \$32 course for computers applies.

LEGL 3760

Law Practice Management

3:3:0 **Fall**
* Prerequisite(s): Matriculation into any Legal Studies Program and University Advanced Standing

Covers management principles applicable in modern law practice from solo practice to large mega firms. Provides students with parameters and policies of the business of law to understand why law firms conduct business differently from other industries. Introduces students to administrative and substantive functions and procedures common to a law office that make the student's transition into legal employment easier. Encourages ethical considerations and acquisition of skills required by law firms that use efficient systems and procedures.

LEGL 3890

Certified Legal Assistant Preparation

3:3:0 **Spring**
* Prerequisite(s): ENGL 2010 or ENGL 2020 and University Advanced Standing

Acquaints students with Certified Legal Assistant exam prerequisite and preparation strategies. Reviews all required sections of the exam which include legal terminology, communications, legal ethics, judgment and analytical ability, legal research, human relations and interviewing techniques, and general law. Also covers some elective law portions of the exam which might include administrative law, bankruptcy law, business organizations, contract law, criminal law, estate planning and probate, family law, litigation, real estate law. Successful completers should be prepared to sit for the CLA Exam.

LEGL 4000

Advanced Business Law and E-Commerce

3:3:0 **Spring**
* Prerequisite(s): LEGL 3000 and University Advanced Standing

Examines contemporary issues in business law, with an emphasis in e-commerce and business in a digital environment. Studies secured transactions, business associations, investor protection, consumer protection and government regulation in an increasingly global and interconnected business environment. Recommended for students interested in graduate school, especially in law or business.

LEGL 4100

Advanced Mediation

3:3:0 **Spring**
* Prerequisite(s): LEGL 3410 and University Advanced Standing

Prepares students to perform at an advanced level in the mediation process. Builds on the fundamentals learned in the basic course, improves knowledge, and sharpens practical skills and effectiveness as a mediator. Uses an interactive-workshop format that blends theory with simulated class role-play.

LEGL 4130

Bankruptcy and Collections

3:3:0 **Spring**
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): LEGL 3000

Covers collection of debts and the discharge of certain financial obligations in bankruptcy, including Chapter 7, 11, and 13 filings. Utilizes lecture and practical experience in the preparation of collection and bankruptcy documents. Teaches basic collections, bankruptcy law, drafting collections, bankruptcy pleadings, and schedules. Lab access fee of \$32 for computers applies.

LEGL 4150

Will Trusts and Probates

3:3:0 **Fall**
* Prerequisite(s): Matriculation into any Woodbury School of Business program and University Advanced Standing

Examines purpose and methods of estate planning, emphasizing the drafting of simple wills, trusts, and other estate planning documents. Covers testamentary and non-testamentary disposition of property, taxation, intestate succession, medical directives, power of attorney and probate and estate administration processes. Lab access fee of \$32 for computers applies.

LEGL 4160

Contract Law

3:3:0 **Spring**
* Prerequisite(s): LEGL 3000 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Provides a functional approach to the Law of Contracts. Teaches contract problems and defenses through case study method. Lab access fee of \$32 for computers applies.

LEGL 418G

International Law

3:3:0 **Spring**
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines the emergence of International Law as a reflection of changing social, cultural, religious perspectives in an increasingly global community. Studies the global relationships between states, businesses, and individuals, and the resolution of disputes on an international level, including special problems in international crime, jurisdiction, courts, contracts and trade, intellectual property, and other current issues.

LEGL 4190

Constitutional Law

3:3:0 **Fall, Spring**
* Prerequisite(s): Matriculation into any Legal Studies major and University Advanced Standing

Examines the relationships between individual liberty and the government, including the separation of powers, federalism and limits on the government's ability to restrict individual freedom. Studies the Bill of Rights, with emphasis on the first, fourth, and fourteenth amendments, and their practical effect in civil and criminal cases.

LEGL 4200

Domestic Mediation

3:3:0 **Fall**
* Prerequisite(s): (LEGL 3410 or instructor approval) and University Advanced Standing

Prepares students to understand and participate knowledgeably and effectively in the process of domestic mediation. Improves conceptual knowledge about and understanding of the domestic mediation process as well as improving practical negotiation and mediation skills. Utilizes a highly interactive workshop format that blends theory with practice.

LEGL 430G

International Business Law

3:3:0 **Fall**
* Prerequisite(s): (ENGL 2010 or ENGL 2020), Junior Standing, and University Advanced Standing

Examines current issues in international and comparative business law, including environmental protections, multinational enterprises, foreign investment, banking, labor, financing and taxation. Studies how culture, values, religion, and other factors affect law in a global business context. Recommended for students graduate work, especially in business or law. Fulfills Global/Intercultural Requirement.

LEGL 4830

Legal Capstone Course

3:3:0 **Fall, Spring**
* Prerequisite(s): LEGL 1110, PRLG 4200, LEGL 3000, and University Advanced Standing

A capstone course for the Bachelor's Degree in Legal Studies. Provides integration of all functional paralegal skills via mock trials. Requires the student to write a legal memorandum analyzing a particular case and to present a legal issue to the class.

LEGL 498R
Directed Research
1 to 3:1 to 3:0 **Fall, Spring, Summer**
 * Prerequisite(s): ENGL 2010, Department Approval, and University Advanced Standing

Studies the process of researching and writing for scholarly publication. Includes understanding the concepts of scholarly conversation, managing scholarship, choosing a topic, identifying appropriate journals, using exemplars, creating a title and abstract, making an outline, developing an introduction and conclusion, writing the body of the paper, and then revising, submitting, and finally publishing in a scholarly journal. May be repeated for a maximum of 6 credits toward graduation.

LEGL 6000
Legal Challenges in Modern Business
1.5:1.5:0

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Examines contemporary issues in business law, with an emphasis in e-commerce and business in a digital environment. Studies secured transactions, business associations, investor protection, consumer protection and government regulation in an increasingly global and interconnected business environment. Recommended for business executives and managers.

Mathematics (MATH)

MATH 100R
Math Leap
1:1:0 **Fall, Spring, Summer**

For students in STEM and related fields who desire to improve problem-solving skills and/or placement level in preparation for STAT 1040 and higher-numbered MATH courses. Addresses unique strengths and weaknesses of students, by providing group problem solving activities along with an individual assessment and study plan for mastering target material. Requires mandatory class attendance and a minimum number of hours per week logged into a preparation module, with progress monitored by a mentor. May be repeated for a maximum of 4 credits toward graduation. May be graded credit/no credit.

MATH 1050 **QL**
College Algebra
4:4:0 **Fall, Spring, Summer**

* Prerequisite(s): Within the past two years one of the following: MAT 1000 or MAT 1010 with a grade of C or better or appropriate math placement score.

Includes inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, systems of linear and nonlinear equations, matrices and determinants, arithmetic and geometric sequences, and the Binomial Theorem. May be delivered hybrid and/or online. Lab access fee of \$30 applies.

MATH 1055 **QL**
College Algebra with Preliminaries
5:5:0 **Fall, Spring**

* Prerequisite(s): Within the past two years; appropriate placement by math placement test or Mathematics Department Adviser Approval

Includes expressions, equations, graphing, inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, systems of linear and nonlinear equations, matrices and determinants, arithmetic and geometric sequences, and the Binomial Theorem. May be delivered hybrid and/or online.

MATH 1060
Trigonometry
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): Within the past two years: MATH 1050 or MATH 1055 with a grade of C or higher or appropriate math placement score.

Includes the unit circle and right triangle definitions of the trigonometric functions, graphing trigonometric functions, trigonometric identities, trigonometric equations, inverse trigonometric functions, the Law of Sines and the Law of Cosines, vectors, complex numbers, polar coordinates, and rotation of axes.

MATH 1065 **QL**
Precalculus
5:5:0 **On Sufficient Demand**

* Prerequisite(s): (MATH 1050 or MATH 1055) and MATH 1060

Provides a review of algebra and trigonometry for students who have been out of school for some time. Reviews the mathematical concepts taught in MATH 1050 and MATH 1060. Students who choose to apply MATH 1065 toward graduation cannot also count MATH 1050 and MATH 1060.

MATH 1090 **QL**
College Algebra for Business
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): Within the past two years one of the following: MAT 1000 or MAT 1010 with a grade of C or better or appropriate math placement score.

Uses linear, quadratic, power, polynomial, rational, exponential, logarithmic, and logistic functions to analyze business applications such as market equilibrium, rates of change, cost-benefit analysis, and inflation. Includes systems of linear and non-linear equations and inequalities, matrices and matrix equations, sequences and series, and financial mathematics.

MATH 1100 **QL**
Introduction to Calculus
4:4:0 **Fall, Spring, Summer**

* Prerequisite(s): Within the past two years: MATH 1050 or MATH 1055 with a grade of C or better or appropriate math placement score.

Provides an overview of the basic concepts and techniques of differential and integral calculus. Features applications in business, economics, and the life, social, and physical sciences. Includes optimization techniques in multivariable differential calculus.

MATH 1210 **QL**
Calculus I
5:5:0 **Fall, Spring, Summer**

* Prerequisite(s): One of the following within the past two years: (MATH 1050 or MATH 1055) and MATH 1060, each with a grade of C or higher; MATH 1065 with a grade of C or higher; appropriate placement by math placement test.

Includes limits and continuity, differentiation, applications of differentiation, integration, applications of integration, derivatives of the exponential functions, logarithmic functions, inverse trigonometric functions, and hyperbolic functions, and related integrals. Prerequisite for calculus-based sciences.

MATH 121H **QL**
Calculus I
5:5:0 **Fall, Spring**

* Prerequisite(s): One of the following: (MATH 1050 or MATH 1055) and MATH 1060, each with a grade of C or higher within the past two years; MATH 1065 with a grade of C or higher within the past two years; appropriate placement by the Accuplacer test (taken within the past two years)

Includes limits and continuity, differentiation, applications of differentiation, integration, applications of integration, derivatives of the exponential functions, logarithmic functions, inverse trigonometric functions, hyperbolic functions, and related integrals. Prerequisite for calculus-based sciences. An honors course with student projects.

MATH 1220
Calculus II
5:5:0 **Fall, Spring, Summer**

* Prerequisite(s): MATH 1210 with a grade of C or higher

Includes integration techniques, arc length, area of a surface of revolution, moments and centers of mass, sequences and series, parametrization of curves and polar coordinates, vectors in 3-space, and quadric surfaces. Prerequisite for calculus-based sciences.

MATH 122H
Calculus II
5:5:0 **Fall, Spring**

* Prerequisite(s): MATH 1210 with a grade of C or higher

Includes integration techniques, arc length, area of a surface of revolution, moments and centers of mass, sequences and series, parametrization of curves and polar coordinates, vectors in 3-space, and quadric surfaces. Prerequisite for calculus-based sciences. Honors course which requires a student project.

MATH 2010
Mathematics for Elementary Teachers I
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): Within the past two years: MATH 1050 or MATH 1055 with a grade of C or better or appropriate math placement score.

Includes problem solving, sets, numeration systems, arithmetic of whole numbers, integers, rational numbers, real numbers, elementary number theory, ratios, proportions, decimals, and percents.

Course Descriptions

MATH 2020

Mathematics for Elementary Teachers II

3:3:0 Fall, Spring, Summer

* Prerequisite(s): MATH 2010 with a grade of C or higher

The second semester of the mathematics course for elementary teachers; includes topics on probability, statistics, geometry and measurement.

MATH 2210

Calculus III

3:3:0 Fall, Spring, Summer

* Prerequisite(s): MATH 1220 with a grade of C or higher

Includes partial derivatives, gradient, Lagrange multipliers, multiple integrals, line integrals, Green's Theorem, surface integrals, the Divergence Theorem, and Stokes' Theorem.

MATH 221H

Calculus III

3:3:0 Fall, Spring

* Prerequisite(s): MATH 1220 with a grade of C or higher

Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green's Theorem, surface integrals, the Divergence Theorem, and Stokes' Theorem. An honors course which includes a student project.

MATH 2250

Differential Equations and Linear Algebra

4:4:0 On Sufficient Demand

* Prerequisite(s): MATH 1220 with a grade of C or higher

For engineering students. Includes separable equations, linear differential equations, differential operators and annihilators, variation of parameters, Laplace transforms, systems of linear differential equations, and numerical methods. Introduces basic concepts of linear algebra including matrices, Gaussian elimination, determinants, linear independence, and eigenvalues and eigenvectors.

MATH 2270

Linear Algebra

3:3:0 Fall, Spring

* Prerequisite(s): MATH 1220 with a grade of C or higher

Includes matrices and systems of equations, determinants, vector spaces, linear transformations, orthogonality, and eigenvalues and eigenvectors.

MATH 2280

Ordinary Differential Equations

3:3:0 Fall, Spring

* Prerequisite(s): MATH 2210 with a grade of C or higher

Includes separable equations, linear differential equations, differential operators and annihilators, variation of parameters, power series solutions of differential equations, Laplace transforms, systems of linear differential equations, and numerical methods.

MATH 281R

Cooperative Work Experience

2 to 9:1:5 to 40 Fall, Spring, Summer

* Prerequisite(s): Approval of Cooperative Coordinator

Designed for mathematics majors. Provides paid work experiences in the student's major. Course content is individualized, with the student setting the objectives by consulting with a faculty coordinator and the on-the-job supervisor. Credit is determined by the number of hours the student works during the semester. Repeatable for a maximum of 16 credits toward graduation. May be graded credit/no credit.

MATH 3000

History of Mathematics

3:3:0 Spring

* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing

Provides a survey of the history of mathematics.

MATH 3010

Methods of Secondary School Mathematics Teaching

3:3:0 Fall

* Prerequisite(s): MATH 2210 with a grade of C or higher and EDSC 4550 with a grade of B- or higher and University Advanced Standing

For Mathematics Education majors. Presents different methods of teaching mathematical ideas at the secondary school level. Includes classroom instruction, student presentations, and field experiences. Studies various techniques of assessment and classroom management.

MATH 3020

Computer Based Mathematics for Secondary School Mathematics Teachers

3:3:0 Fall

* Prerequisite(s): (MATH 2210 and MATH 2270 each with a grade of C or higher) and University Advanced Standing; MATH 2280 with a grade of C or higher is recommended

For Mathematics Education majors. Presents one or more popular mathematical computer software packages. Includes mathematical problem solving and presentations of mathematical concepts using a computer as an aid. Introduces appropriate programming language. Lab access fee of \$30 applies.

MATH 3030

Algebra for Secondary Mathematics Teaching

3:3:0 Spring

* Prerequisite(s): Math 1210 with a grade B+ or higher and University Advanced Standing and Mathematics Department Advisor Approval

For Mathematics Education Majors: Includes the exploration of important conceptual underpinnings, common misconceptions and students' ways of thinking, appropriate use of technology, and instructional practices to support and assess the learning of algebra. Teaches algebra as an extension of number, operation, and quantity; various ideas of equivalence as it pertains to algebraic structures; patterns of change as covariation between quantities; connections between representations (tables, graphs, equations, geometric models, context); and the historical development of content and perspectives from diverse cultures. Focuses on deeper understanding of rational numbers, ratios and proportions, meaning and use of variables, functions (e.g., exponential, logarithmic, polynomials, rational, quadratic), and inverses.

MATH 3100

Foundations of Geometry

3:3:0 Fall, Spring

* Prerequisite(s): MATH 1220 with a grade of C or higher and University Advanced Standing

Offers an axiomatic development of Euclidean and non-Euclidean geometries.

MATH 3200

Foundations of Analysis

3:3:0 Spring, Summer

* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing

* Corequisite(s): MATH 2270 and MATH 2280

Introduces the construction of rigorous proofs of mathematical claims in the context of beginning analysis.

MATH 3210

Complex Variables

3:3:0 Fall

* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing

Introduces complex analysis. Includes algebra of complex numbers, analytic functions, mapping properties of elementary functions, the Cauchy integral formula, complex series, residues, and conformal mapping.

MATH 3300

Foundations of Abstract Algebra

3:3:0 Fall, Spring

* Prerequisite(s): (MATH 2210 and MATH 2270 each with a grade of C or higher) and University Advanced Standing

Offers an introduction to algebraic structures. Includes groups, rings, integral domains, fields.

MATH 3310

Discrete Mathematics

3:3:0 Fall, Spring

* Prerequisite(s): MATH 1220 with a grade of C or higher and University Advanced Standing

Includes logic, sets, functions, elementary number theory, mathematical induction, equivalence relations, and cardinality. Emphasizes the writing of proofs.

MATH 3400

Partial Differential Equations

3:3:0 Spring

* Prerequisite(s): MATH 2280 with a grade of C or higher and University Advanced Standing

Introduction to partial differential equations. Topics include Bessel functions, Legendre polynomials, Fourier analysis, partial differential equations, and boundary value problems.

MATH 3750

Financial Mathematics

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (MATH 1220 or FIN 3100 each with a grade of C or higher) and University Advanced Standing

Prepares students to take Exam FM/Exam 2 given by the Society of Actuaries/Casualty Actuarial Society. Trains students to answer complex questions under significant time pressure. Teaches the principles and mathematics of interest, annuities, amortization, investments, financial economics, derivative investment contracts and financial risk management.

MATH 4000

Introduction to Probability

3:3:0 On Sufficient Demand

* Prerequisite(s): MATH 2210 with a grade of C or higher and University Advanced Standing

An introduction to probability which includes random variables, marginal, joint and conditional distributions, transformations of random variables, expectation, variance, covariance, and special distributions. Also covers counting techniques, moment generating functions, and the central limit theorem.

MATH 4015

Actuarial Problems Laboratory

1:0:3 On Sufficient Demand

* Prerequisite(s): MATH 4000 and University Advanced Standing

Provides preparation for the first actuarial examination by linking concepts of probability and mathematical statistics to actuarial applications.

MATH 4025

Actuarial Problems Finance Laboratory

1:0:3 On Sufficient Demand

* Prerequisite(s): (MATH 3750 or Departmental Approval) and University Advanced Standing

Provides preparation for the second actuarial examination by linking concepts of finance and derivative markets to actuarial applications frequently found on Exam FM/2.

MATH 4030

Geometry for Secondary Mathematics Teaching

3:3:0 Fall

* Prerequisite(s): Math 3100 with a grade C or higher and University Advanced Standing

For Mathematics Education Majors. Includes the exploration of important conceptual underpinnings, common misconceptions and students' ways of thinking, appropriate use of technology, and instructional practices to support and assess the learning of geometry. Teaches constructions and transformations, congruence and similarity, analytic geometry, solid geometry, conics, trigonometry, and the historical development of content and perspectives from diverse cultures. Makes explicit connections to various mathematical content strands (modeling, complex numbers, function, and algebra).

MATH 4040

Statistics and Probability for Secondary Mathematics Teaching

3:3:0 Fall

* Prerequisite(s): Math 1210 with a grade B+ or higher and Math 2040 with a grade C or higher and University Advanced Standing

For Mathematics Education Majors. Includes the exploration of important conceptual underpinnings, common misconceptions and students' ways of thinking, appropriate use of technology, and instructional practices to support and assess the learning of statistics and probability. Focuses on summarizing and representing data, study design and sampling, probability, testing claims and drawing conclusions, and the historical development of content and perspectives from diverse cultures.

MATH 4210

Advanced Calculus I

3:3:0 Fall

* Prerequisite(s): MATH 2210 with a grade of C or higher and (MATH 3200 or MATH 3310 with a grade of C or higher) and University Advanced Standing
* Prerequisite(s) or Corequisite(s): MATH 2270 and MATH 2280

Covers the introductory concepts of calculus proofs, including sequences, series, integration, differentiation, continuity, series and sequences of functions, analytic functions, compactness, and an introduction to the topology of Euclidean spaces.

MATH 4220

Advanced Calculus II

3:3:0 Spring

* Prerequisite(s): MATH 4210, MATH 2270 and MATH 2280 with a grade of C or higher, and University Advanced Standing

Covers the multivariable calculus proofs, including vectors, Jordan regions, metric spaces, topology in Euclidean spaces, multivariable derivatives, multivariable Riemann integration and continuity.

MATH 4310

Introduction to Modern Algebra I

3:3:0 Fall

* Prerequisite(s): MATH 3300 with a grade of C or higher and University Advanced Standing

Introduces the student to basic topics in Modern Algebra in this first course of a two-course sequence. Includes a thorough study of group theory and an introduction to rings.

MATH 4320

Introduction to Modern Algebra II

3:3:0 Spring

* Prerequisite(s): MATH 4310 with a grade of C or higher and University Advanced Standing

Continues the study of rings in this second course of a two-course sequence that introduces the student to topics in Modern Algebra. Focuses on the study of fields and field extensions, and applies these concepts to the solutions of the three famous construction problems from antiquity.

MATH 4330

Theory of Linear Algebra

3:3:0 On Sufficient Demand

* Prerequisite(s): MATH 3300 with a grade of C or higher and University Advanced Standing

Presents a theoretical treatment of vector spaces, linear transformations, and inner product spaces.

MATH 4340

Introduction to Number Theory

3:3:0 On Sufficient Demand

* Prerequisite(s): MATH 1220 with a grade of C or higher and University Advanced Standing

Covers divisibility, irreducibility and primeness, linear Diophantine equations, Pell's equation, continued fractions, congruences, Euler's theorem, arithmetic functions, primitive roots, quadratic reciprocity.

MATH 4510

Foundations of Topology

3:3:0 On Sufficient Demand

* Prerequisite(s): MATH 3310 with a grade of C or higher and University Advanced Standing

Introduction to the ideas of topologies, compactness, connectedness, countability, separability, separation axioms, homeomorphisms, and the Baire Category Theorem.

MATH 4610

Introduction to Numerical Analysis I

3:3:0 Fall

* Prerequisite(s): (MATH 2210, MATH 2270, and MATH 2280, each with a grade of C or higher), an approved programming language, and University Advanced Standing

Introduction to numerical analysis I. Topics will include numerical solutions of equations in one variable, numerical solutions of linear and nonlinear system of equations, interpolations and polynomial approximation, and approximating eigenvalues and eigenvectors. Lab access fee of \$30 applies.

MATH 4620

Introduction to Numerical Analysis II

3:3:0 Spring

* Prerequisite(s): MATH 4610 with a grade of C or higher and University Advanced Standing

Introduction to numerical analysis II. Topics will include numerical differentiation and integration, numerical solutions of initial-value problems and boundary-value problems for ordinary differential equations, numerical. Lab access fee of \$30 applies.

MATH 4750

Life Contingencies

3:3:0 Spring

* Prerequisite(s): STAT 4710 with a grade of C or higher and University Advanced Standing

Includes survival models, Markov Chains, life insurance and annuities, and Poisson processes. Prepares students for the life contingencies portion of Exam M of the Society of Actuaries.

MATH 481R

Internship in Mathematics

1 to 4:0:5 to 20 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

For mathematics majors. Provides mathematics-related work experience in an industrial, commercial, or research environment. Internship credit may not be used in fulfilling the mathematics major course requirements. May be taken two times for a maximum of 6 credits toward graduation. May be graded credit/no credit.

MATH 490R

Topics in Mathematics

2 to 3:2 to 3:0 On Sufficient Demand

* Prerequisite(s): Departmental approval and University Advanced Standing

Studies a chosen topic in mathematics. The topic will vary depending upon student demand. Course may be taken more than once for different topics and for a maximum of 6 credit hours counted toward graduation.

Course Descriptions

MATH 4999

Mathematics Capstone

2:2:0 Spring

* Prerequisite(s): Instructor approval, departmental approval, and University Advanced Standing

For mathematics majors, to be taken during the last semester before graduation. Reviews topics learned in the core undergraduate mathematics courses. Assesses student understanding through the Major's Field Test. Provides an opportunity for senior mathematics majors to participate in mathematical research under the supervision of a faculty member. Offers a setting in which students prepare a research paper and give oral presentations that describe their research.

MATH 5510

General Topology

3:3:0 On Sufficient Demand

* Prerequisite(s): MATH 4510 with a grade of C or higher or MATH 4210 with a grade of C or higher

Introduces the fundamentals of general topology, including topological spaces, separation axioms, continuity, compactness, connectedness, metric spaces, product spaces, metrization and ordinals.

MATH 6100

Topics in Geometry and Topology

3:3:0 Fall, Spring

* Prerequisite(s): Mathematics Endorsement 4, or instructor approval

Includes manifolds, fundamental group, classification of surfaces, covering spaces, homotopy types, differential geometry, Riemannian geometry, algebraic geometry, projective geometry, and algebraic topology. May be delivered online.

MATH 6310

Modern Algebra

3:3:0 Fall, Spring

* Prerequisite(s): Mathematics Endorsement 4, or instructor approval

Reviews the basics of ring theory. Analyzes ideals and factor rings in detail to prepare students for the study of fields. Uses the basics of field theory, including the construction of field extensions, to prove the impossibility of the three great construction problems of antiquity. Concludes with an introduction to Galois Theory.

MATH 6350

Introduction to Combinatorics

3:3:0 Fall, Spring

* Prerequisite(s): Mathematics Endorsement 4, or instructor approval

Enumerates permutations and combinations of sets and multi-sets, inclusion-exclusion, recurrence relations, generating functions, Polya theory, and combinatorial structures.

MATH 6410

Topics in Ordinary Differential Equations

3:3:0 Fall, Spring

* Prerequisite(s): Mathematics Endorsement 4, or instructor approval

Includes the theory of linear and nonlinear ordinary differential equations and dynamical systems; the initial-value problems and behavior of solutions; the existence, uniqueness, perturbations, continuous dependence of solution on initial conditions, and introduction of nonlinear dynamical systems with applications.

MATH 6610

Numerical Methods and Modeling

3:3:0 Fall, Spring

* Prerequisite(s): Mathematics Endorsement 4, or instructor approval

Investigates modelling and numerical topics. Investigates topics from college algebra, calculus, linear algebra, and differential equations from a theoretical as well as numerical perspective. Expounds on algorithms and modelling through software packages in a hands-on approach.

MATH 6620

Topics in Numerical Analysis

3:3:0 Fall, Spring

* Prerequisite(s): Mathematics Endorsement 4, or instructor approval

Develops a deeper practical and theoretical understanding of methods used to find approximate solutions of a variety of mathematical problems and of the relationships between these algorithms. Compares accuracy, efficiency, and stability of methods used to solve nonlinear equations and large systems of linear and nonlinear algebraic equations; ordinary and partial differential equations; and to perform numerical differentiation, integration, interpolation and more general approximation of functions. Provides experience programming and applying many of the central algorithms that have powered modern advances in math and the sciences.

Mathematics Developmental (MAT)

MAT 090R

Individualized Mathematics Review

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Appropriate test scores

For students placing into MAT 0950 or MAT 0990. Includes diagnostic test of student's mathematical knowledge base. Develops individualized study plan, including number of credit hours recommended to complete. Course offered credit/no credit. May be repeated once for a maximum of 5 credits.

MAT 0920

Math Fundamentals

3:3:0 Fall, Spring

* Prerequisite(s): Appropriate placement by a placement exam (within two years).

Designed for students requiring basic math review. Reviews basic operations with whole numbers and fractions. Includes basic operations involving decimals, percents, ratios, rates, and basic operations involving physical measurements.

MAT 0950

Foundations for Algebra

4:4:0 Fall, Spring, Summer

* Prerequisite(s): One of the following (within two years): MAT 0920 with a grade of C- or higher; or appropriate placement by a placement exam.

Designed for students requiring basic math and pre algebra instruction. Covers basic operations for number systems up to and including real numbers. Includes fractions, ratios, proportions, decimals, exponents, roots, linear equations, and polynomial expressions. May be delivered online.

MAT 0980

Integrated Pre Algebra and Beginning

Algebra

5:5:0 Fall, Spring

* Prerequisite(s): Appropriate placement (within two years) by a placement exam.

An accelerated preparatory class for MAT 1010, Intermediate Algebra, covering Pre-Algebra and Beginning Algebra in one semester. Includes real numbers, algebraic expressions, polynomials, solving and graphing linear equations and inequalities, factoring, quadratic equations, rational expressions and equations, ratios, percents, systems of linear equations, roots and radicals, and an introduction to complex numbers. May be delivered online.

MAT 0990

Introductory Algebra

4:4:0 Fall, Spring

* Prerequisite(s): One of the following (within two years): MAT 0950 or MAT 0980 with a C- or higher; or appropriate placement by a placement exam.

For students who have completed a minimum of one year of high school algebra or who lack a thorough understanding of basic algebra principles. Teaches integers, solving equations, polynomial operations, factoring polynomials, systems of equations and graphs, rational expressions, roots, radicals, complex numbers, quadratic equations and the quadratic formula. Prepares students for MAT 1010, Intermediate Algebra. May be delivered hybrid and/or online

MAT 1000

Integrated Beginning and Intermediate

Algebra

5:5:0 Fall, Spring, Summer

* Prerequisite(s): One of the following (within two years): MAT 0950 or MAT 0980 with a C- or higher; or appropriate placement by a placement exam.

Teaches Beginning and Intermediate Algebra in one semester. Includes linear, quadratic, and rational expressions, equations, and functions; systems of equations; logarithms; exponents; graphing; and problem solving. Prepares students for MAT 1030, STAT 1040, MATH 1050, and MATH 1090. May be delivered hybrid and/or online.

MAT 1010

Intermediate Algebra

4:4:0 Fall, Spring, Summer

* Prerequisite(s): One of the following (within two years): MAT 0980 or MAT 0990 with a grade of C- or higher; or appropriate placement by a placement exam.

Expands and covers in more depth basic algebra concepts introduced in Beginning Algebra. Includes linear and quadratic equations and inequalities, polynomials and rational expressions, radical and exponential expressions and equations, complex numbers, systems of linear and nonlinear equations, functions, conic sections, and real world applications of algebra. May be delivered hybrid and/or online.

MAT 1030 QL**Quantitative Reasoning****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): One of the following (within department time limits): MAT 1000 or MAT 1010 with a grade of C or higher; or appropriate placement by a placement exam.

Teaches how to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions. May be delivered online.

MAT 1035 QL**Quantitative Reasoning with Integrated Algebra****6:6:0** **Fall, Spring, Summer**

* Prerequisite(s): One of the following (within department time limits): MAT 0950 with a grade of C or higher; appropriate placement by a placement exam

Teaches students to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions. Provides the necessary algebraic content taught in context.

MAT 103H QL**Quantitative Reasoning****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): One of the following (within department time limits): MAT 1000 or MAT 1010 with a grade of C or higher; or appropriate placement by a placement exam.

Teaches how to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions. Covers the material at an honors level. May be delivered online.

MAT 1110**Foundations of Mathematical Thinking and Reasoning****3:3:0** **On Sufficient Demand**

* Prerequisite(s): One of the following (within two years): MAT 1000 or MAT 1010 with a grade of C- or higher; or appropriate placement by a placement exam.

Reviews and reflects on mathematics taught in K-12 to learn mathematical thinking and reasoning. Includes six topics: (1) Early mathematics experiences and mathematics anxiety (2) Why and how mathematics is as important as language literacy (3) The language features of mathematics, and mathematics as a way of thinking (4) Making mathematical arguments: mathematical structure and reasoning (5) Different ways of working with mathematics: mathematical cognition and methodology (6) Mathematical problem solving.

Mechatronics Technology (MECH)

MECH 1010**Introduction to Mechatronics****3:3:0** **Fall, Spring**

Exposes students to Mechatronics through integrated system design that combines electrical, mechanical, and microprocessor programming theory. Discusses the fundamentals of materials science, manufacturing processes, and the application of automation systems in a production environment. Presents the fundamentals of the structure of metals, classification of steel and aluminum, and introduces the basics of the mechanical properties of metals. Covers common manufacturing processes such as casting, forming, metal removal, and heat treating. Introduces the application of automation in manufacturing and production systems and illustrates overall system control and data management methods. Course fee of \$20 for materials applies. Lab access fee of \$35 applies.

MECH 1200**Electronics in Automation Design****3:3:0** **Fall**

* Corequisite(s): MECH 1205

* Prerequisite(s) or Corequisite(s): MAT 1010

Teaches basic DC and AC electronics theory including voltage, current, resistance, reactance, and impedance as well as basic electronic components such as resistors, capacitors, and inductors. Includes the analysis of series, parallel, and complex circuits as well as troubleshooting and measurement techniques. Presents the fundamentals of digital logic using combinational and sequential logic. Teaches number systems, binary arithmetic, logic gates, Boolean algebra, truth tables and logic simplification. Introduces computer architecture. Emphasizes the application of electronic theory and analysis in the design of automation systems. Course Lab fee of \$40 for materials, lab applies. Lab access fee of \$35 applies.

MECH 1205**Electronics in Automation Design Laboratory****2:0:6** **Fall**

* Corequisite(s): MECH 1200

Applies basic DC and AC electronics theory including voltage, current, resistance, reactance, and impedance as well as basic electronic components such as resistors, capacitors, and inductors. Includes the analysis of series, parallel, and complex circuits as well as troubleshooting and measurement techniques. Presents the fundamentals of digital logic using combinational and sequential logic. Teaches number systems, binary arithmetic, logic gates, Boolean algebra, truth tables and logic simplification. Introduces computer architecture. Emphasizes the application of electronic theory and analysis in the design of automation systems.

MECH 1250**Logic Fundamentals for Mechatronic Design****2:2:0** **Fall, Spring**

* Corequisite(s): MECH 1255

Emphasizes the concepts of logic design using integrated circuits, computer architecture, and discrete electro-mechanical devices. Lab access fee of \$35 applies. Course Lab fee of \$11 for materials, lab applies.

MECH 1255**Logic Fundamentals for Mechatronic Design Laboratory****1:0:3** **Fall, Spring**

* Corequisite(s): MECH 1250

Emphasizes the concepts of logic design using integrated circuits, computer architecture, and discrete electro-mechanical devices. Utilizes standard laboratory equipment to experience logic circuits by building, analyzing, and troubleshooting.

MECH 2200**Semiconductors in Mechatronic Systems****3:3:0** **Fall, Spring**

* Prerequisite(s): MECH 1200

* Corequisite(s): MECH 2205

Teaches the theory of semiconductor PN junctions and discrete semiconductors such as diodes, bipolar junction transistors, and MOSFET's applied to automation control. Also introduces the utilization of opto-isolators, triacs, and SCR's in controlling automation power devices. Course Lab fee of \$25 for materials, lab applies.

MECH 2205**Semiconductors in Mechatronic Systems Lab****1:0:3** **Fall, Spring**

* Prerequisite(s): MECH 1200

* Corequisite(s): MECH 2200

Applies the theory of semiconductor PN junctions and discrete semiconductors such as diodes, bipolar junction transistors, and MOSFET's applied to automation control. Introduces the utilization of opto-isolators, triacs, and SCR's in controlling automation power devices.

MECH 2300**Microcontroller Architecture and Programming****3:3:0** **Fall, Spring**

* Corequisite(s): MECH 2305

* Prerequisite(s) or Corequisite(s): MECH 2200

Teaches computer architecture and the fundamentals of computer programming in C language. Uses an IDE to develop, compile and debug C code. Introduces structured top down design and program documentation. Teaches the organization of I/O ports including alternate functions. Utilizes microcontroller communications, functions and I/O methods to interface to sensors and actuators. Course Lab fee of \$50 for materials, lab applies. Software fee of \$29 applies. Lab access for of \$35 applies.

MECH 2305**Microcontroller Architecture and Programming Lab****1:0:3** **Fall, Spring**

* Corequisite(s): MECH 2300

Applies computer architecture and the fundamentals of computer programming in C language. Uses an IDE to develop, compile and debug C code. Introduces structured top down design and program documentation. Teaches the organization of I/O ports including alternate functions. Utilizes microcontroller communications, functions and I/O methods to interface to sensors and actuators.

Course Descriptions

MECH 2400

Mechanical Components

4:4:0

Fall

* Prerequisite(s): MECH 1010

Teaches students how to select, design, and analyze mechanical components that are used in manufacturing automation systems. Reviews and reinforces the concepts of the structure of metals, metals selection, and mechanical properties. Focuses on the selection of belt and chain drives, gear and gearbox selection, design of shafts, specification of rolling element bearings, and the use of threaded fasteners. Integrates the selection and design of mechanical components into a design project. Lab access fee of \$35 applies

MECH 2500

Introduction to PLCs in Mechatronic Design

4:2:6

Fall

* Prerequisite(s): MECH 2300

Studies the theory and programming of industrial control systems and programmable logic controllers (PLC). Introduces PLC programming stressing Ladder Logic and PLC programming, troubleshooting, and maintenance. Covers connection of PLCs to external components. Course Lab fee of \$15 for materials, lab applies. Software fee of \$29 applies. Lab access fee of \$35 for computers applies.

MECH 2510

Automation System Sensors

3:2:3

Fall

* Prerequisite(s) or Corequisite(s): MECH 2500

Teaches mechatronics students how to select, install, and troubleshoot sensors in a manufacturing environment. Emphasizes the application of proximity sensors in automation equipment as well as the use of encoders to measure speed and position, pressure transducers, and the use of thermocouples and thermistors to measure temperature. Utilizes signal conditioning methods to interface sensors to microprocessors and PLC's. Course Lab fee of \$20 for lab notebook, lab applies. Lab access fee of \$35 applies.

MECH 2550

Advanced PLC Programming and Applications

4:2:6

Spring

* Prerequisite(s): MECH 2500

Teaches the principles of program structure, subroutines, interrupts, debugging, and simplifying. Illustrates the measurement and scaling of analog signals and the use of tables and pointers to manipulate data. Features networking principles, such as Ethernet, serial, and bluetooth communication. Includes the use of high speed counters and PWM output. Course Lab fee of \$15 for materials, lab applies. Software fee of \$29 applies. Lab access fee of \$35 for computers applies.

MECH 2600

Introduction to Pneumatics

3:2:3

Spring

* Prerequisite(s): MECH 2400

Develops the concepts used to design, build, and control a pneumatic system that is used in an industrial automation process. Employs laboratory exercises to illustrate the selection and use of pneumatic actuators, valves, and controls to sequentially control a process. Course Lab fee of \$15 for materials, lab applies. Lab access fee of \$35 applies.

MECH 3000

Wiring Diagrams in Automation Systems

3:3:0

Fall

* Prerequisite(s): (EGDT 1071, EGDT 1000, or Department Approval) and University Advanced Standing.

Teaches how to create industrial wiring diagrams and how to integrate them into a 3D design using SolidWorks Electrical. Requires students to follow IEEE drawing standards to design a complete electromechanical automation system. Includes the development of a complete electrical wiring diagram package that conforms to standard industrial practice. Lab access fee of \$35 applies.

MECH 3060

Mechatronics Management

3:3:0

On Sufficient Demand

* Prerequisite(s): MECH 2550 and University Advanced Standing

Provides management principles, processes, and standards commonly used in manufacturing and other industries. Covers basic concepts in project management, operations management, quality management, and safety management. Familiarizes students with applicable software tools.

MECH 3100

Advanced Technical Math Applied to Automation

2:2:0

Fall

* Prerequisite(s): University Advanced Standing and MECH 2550, or EART 2270, or Department Approval

Covers the fundamentals of algebra, trigonometry and geometry as used in mechatronics systems. Introduces differential and integral calculus in the context of system modelling and design. Emphasizes mathematical techniques applied to technically oriented applications in automation.

MECH 3220

Automation Motors and Controllers

2:2:0

Fall

* Prerequisite(s): (MECH 2550, or EART 2270, or Department Approval) and University Advanced Standing
* Corequisite(s): MECH 3225

Presents the selection and application of AC and DC servo motors and how to control the speed and position in automation systems. Teaches variable frequency drives and servo drives in automation system design. Course Lab fee of \$15 for materials, lab applies. Software fee of \$29 applies. Lab access fee of \$35 applies.

MECH 3225

Automation Motors and Controllers Laboratory

1:0:3

Fall

* Prerequisite(s): (MECH 2550, or EART 2270, or Department Approval) and University Advanced Standing
* Corequisite(s): MECH 3220

Presents the selection and application of AC and DC servo motors and how to control the speed and position in automation systems. Teaches variable frequency drives and servo drives in automation system design.

MECH 3300

Industrial Networks

3:2:3

Spring

* Prerequisite(s): MECH 3220, University Advanced Standing.

Teaches the students how to design, configure, integrate, and maintain an industrial floor network. Uses Allen Bradley software to integrate PLC's, sensors, HMI's, and remote computers, smart phones, and iPads into a manufacturing data management network. Course Lab fee of \$25 for materials, lab applies. Software fee of \$29 applies. Lab access fee of \$35 applies.

MECH 3400

Statics and Material Properties for Mechatronics

4:4:0

Spring

* Prerequisite(s): (MECH 3100 or Department Approval) and University Advanced Standing.
* Corequisite(s): MECH 3405

Teaches the concept of forces as vectors, the equations of equilibrium, calculation of internal forces, and the calculation of centroids and area moments of inertia. Teaches how to calculate tensile and shear stress in machine components and compare the resultant forces to standard theories of failure using the principles of statics. Lab access fee of \$35 applies.

MECH 3405

Statics and Material Properties for Mechatronics Laboratory

1:0:3

Spring

* Prerequisite(s): (MECH 3100 or Department Approval) and University Advanced Standing
* Corequisite(s): MECH 3400

Applies the concept of forces as vectors, the equations of equilibrium, calculation of internal forces, and the calculation of centroids and area moments of inertia. Teaches how to calculate tensile and shear stress in machine components and compare the resultant forces to standard theories of failure by using the principles of statics.

MECH 3500

Industrial Robots

3:2:3

Spring

* Prerequisite(s): MECH 3220, University Advanced Standing.

Introduces the principles of industrial robotics, programming, and the application of vision systems. Teaches power supply systems, degrees of freedom, sensors, end effectors, and maintenance methods. Course Lab fee of \$11 for flat ribbon cable, lab applies. Lab access fee of \$35 applies.

MECH 3570

Design Analysis and Rapid Prototyping

3:3:0

Fall

* Prerequisite(s): MECH 3000, University Advanced Standing.

Teaches the fundamentals of geometric dimensioning and tolerancing based on the ASME Y14.5 standard. Teaches how a design is affected by manufacturing tolerances and how to specify the fit of parts on a detail print. Emphasizes assembly analysis using SolidWorks Motion and rapid prototyping to verify the form, fit, and function of a design. Lab access fee of \$35 applies.

**MECH 3700
CNC Machines**

3:2:3 **Fall**
* Prerequisite(s): MECH 3220, University Advanced Standing.

Teaches the design, application, programming, and maintenance of CNC machines used in automation systems. Emphasizes the integration of CNC machines into automation systems. Covers specifications and performance, interfacing to PLC's, interfacing to industrial robots, tooling, programming, and integrating the CNC machine into factory floor network systems. Course Lab fee of \$35 for materials applies. Software fee of \$29 applies Lab access fee of \$35 applies.

**MECH 4300
Advanced Pneumatic Design**

3:2:3 **Fall**
* Prerequisite(s): MECH 2600, University Advanced Standing.

Expands on the basics taught in MECH 2600 and teaches motion control of a pneumatic system using a PLC, proportional flow control valves, and analog sensors. Covers analytical performance calculations, as well as software simulation of the complete pneumatic system. Course Lab fee of \$15 for equipment applies. Lab access fee of \$35 applies.

**MECH 4400
Polymers/Composites and Processes**

3:3:0 **Spring**
* Prerequisite(s): MECH 3400, University Advanced Standing.

Teaches students the selection of polymers, design of polymer products and manufacturing processes associated with polymer based products. Also teaches types of composites and design of composite products. Course Lab fee of \$18 for supplies applies. Lab access fee of \$35 applies.

**MECH 4500
Advanced Automation Controls**

3:2:3 **Spring**
* Prerequisite(s): MECH 4300, University Advanced Standing.

Teaches methods of advanced control of high speed components, analog controls, temperature, pressure, and time delay processes. Teaches digital and analog methods of control. Course Lab fee of \$45 for equipment applies. Lab access fee of \$35 applies.

**MECH 4800
Capstone Project**

3:1:6 **Spring**
* Prerequisite(s): MECH 3570, University Advanced Standing.

Integrates the concepts of the Mechatronics Engineering Technology curriculum into a semester-long design project. Requires students to conceive, define, design, document, and prototype a mechatronic project. Lab access fee of \$35 applies. Software fee of \$29 applies.

**MECH 490R
Topics in Mechatronics**

3:3:0 **Spring**
* Prerequisite(s): MECH 3100 and MECH 3220 and University Advanced Standing

Studies a chosen topic in the mechatronics discipline. Course may be taken more than once for different topics and for a maximum of 6 credit hours toward graduation.

**Mechanical Engineering
(ME)**

**ME 3010
Linear Systems**

3:3:0 **Fall**
* Prerequisite(s): ENGR 2030, MATH 2250, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Covers analysis of linear systems in the time and frequency domains. Focuses on modeling and analysis of physical systems. Introduces Fourier and Laplace transforms. Includes a design component.

**ME 3130
Kinematics**

3:3:0 **Spring**
* Prerequisite(s): ENGR 2030, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Covers the analysis of dynamic mechanisms including: relative motion of links in mechanisms; velocities and accelerations of machine parts; rolling contact; cams; and synthesis of mechanisms. Introduces computer-aided engineering techniques for mechanism analysis. Includes a design component.

**ME 3140
Machine Design**

3:3:0 **Fall**
* Prerequisite(s): ENGR 2140, ENGR 2160, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Presents methods for static and dynamic stress and failure analysis for mechanical systems. Teaches how to create machine design models and free-body diagrams, calculate stress, estimate deflection, select an appropriate failure theory, and design to prevent failure. Gives experience using commercial FEA software to create models of simple structures and machine components. Includes a design component.

**ME 3160
Intermediate Materials**

3:3:0 **Spring**
* Prerequisite(s): ENGR 2140, ENGR 2160, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Teaches in further depth the mechanical behavior of engineering materials including metals, woods, plastics, ceramics and composites. Looks at characteristics, failure mechanisms, and designing with various engineering materials.

**ME 3170
Introduction to Plastics and Composites**

3:3:0 **Spring**
* Prerequisite(s): ENGR 2140, ENGR 2160, CHEM 1210, MATH 2250, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Introduces the structure, processing, properties and uses of plastic and composite materials. Surveys manufacturing methods. Teaches the use of plastic and composite materials in various products.

**ME 3210
Manufacturing Processes for Engineers**

3:3:0 **Spring**
* Prerequisite(s): ENGR 2140, ENGR 2160, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Introduces manufacturing processes, including machining, injection molding, casting, 3D printing, and forming. Introduces Computer Numeric Control (CNC) machining and Computer Aided Manufacturing (CAM).

**ME 3300
Applied Thermodynamics**

3:3:0 **Spring**
* Prerequisite(s): ENGR 2300, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Introduces thermodynamic analysis and design of vapor, gas, refrigeration and heat pump systems, along with exergy analysis. Covers thermodynamic relations, ideal gas mixture and psychometric applications, reacting mixtures, and combustion. Includes a design component.

**ME 3310
Fluid Mechanics**

3:3:0 **Fall**
* Prerequisite(s): ENGR 2030, University Advanced Standing, and (Formal Acceptance into the Mechanical Engineering Program or Departmental Approval)

Covers the fundamentals of fluid mechanics including fluid properties, fluid statics, the Bernoulli equation, fluid kinematics, the integral and differential analyses of fluid flow. Introduces dimensional analysis, similitude, and modeling. Covers viscous internal and external flows, and turbomachines. Includes a design component.

**ME 3320
Heat Transfer**

3:3:0 **Spring**
* Prerequisite(s): (ENGR 2300, ME 3310, or Departmental Approval) and University Advanced Standing

Focuses on the three modes of heat transfer: conduction, convection, and radiation. Introduces steady and unsteady heat conduction, convection heat transfer principles, forced and free internal and external convection flows. Covers radiation heat transfer, combined modes of heat transfer, and analysis and design of heat exchangers. Includes a design component.

Course Descriptions

ME 3335

Thermal/Fluid Experimentation

2:0:6

Spring

* Prerequisite(s): (ENGR 2300 or Departmental Approval) and University Advanced Standing
* Corequisite(s): ME 3320

Covers temperature, pressure, and flow measurement, along with calibration of thermal/fluid sensors in a lab setting. Focuses on experiments to investigate various phenomena in fluid flow, thermodynamics, and heat transfer. Investigates the performance of pumps, fans, and heat exchangers. Includes a writing component.

ME 4010

Automatic Controls

3:3:0

Fall

* Prerequisite(s): ME 3010 and University Advanced Standing

Covers analysis of control systems using Evans, Nyquist and Bodes methods. Introduces digital control and feedback compensation concepts for system performance improvement. Includes a design component.

ME 4015

Control and Vibration Experimentation

2:0:6

Spring

* Prerequisite(s): ME 4010 and University Advanced Standing

Introduces system modelling and characterization in the time and frequency domains, feedback and compensation, Proportional Integral Derivative (PID) control, control of velocity and position in a lab setting. Covers motion measurement, force measurement, free vibration, frequency response, impact response, noise, and signal processing. Includes a writing component.

ME 4180

Compliant Mechanisms

3:3:0

On Sufficient Demand

* Prerequisite(s): ME 3130, ME 3140, and University Advanced Standing

Covers the design and analysis of compliant mechanisms and compliant structures. Includes large-deflection analysis/force displacement relationships, prediction of failure of compliant members, and synthesis of compliant mechanisms. Includes a design component.

ME 4380

Design of Thermal/Fluid Systems

3:3:0

On Sufficient Demand

* Prerequisite(s): ENGR 2300, ME 3320, and University Advanced Standing

Applies the principles of thermodynamics, fluid mechanics, and heat transfer to the design of conventional and emerging thermal/fluid systems. Includes lectures and design projects.

ME 4390

Heating Ventilating and Air Conditioning Design

3:3:0

On Sufficient Demand

* Prerequisite(s): ENGR 2300, ME 3320, and University Advanced Standing

Covers air conditioning components and systems, moist air properties and conditioning processes. Covers indoor environmental quality indicators, space heating and cooling load calculations, and building energy consumption estimation. Focuses on water- and air-system design, refrigerants and refrigeration systems. Includes lectures and design projects.

ME 4410

Computer Aided Engineering

3:3:0

Fall

* Prerequisite(s): ME 3140, ME 3320 and University Advanced Standing

Covers the application of computer-aided engineering tools in design; 3-D geometry and solid modeling; finite element analysis, kinematic analysis, and other software in engineering analysis. Includes a design component.

ME 4420

Finite Element Methods

3:3:0

Spring

* Prerequisite(s): ENGR 2140, ME 3320 and University Advanced Standing

Covers discrete approximation of engineering problems, energy and weighted residual methods, and coordinate systems and mapping. Focuses on one-, two-, and three-dimensional formulation of problems in solid and fluid mechanics and heat transfer, time-dependent problems, and optimization techniques.

ME 4510

Mechanical Engineering Seminar

1:1:0

Fall

* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): ME 4810

Introduces various mechanical engineering careers and related industries. Emphasizes importance of life-long learning and active participation in professional societies and communities through lectures given by practicing engineers using their own experiences. Introduces various engineering codes of ethics. Intended as a culminating seminar for graduating seniors to prepare for their engineering careers.

ME 4550

Global Engineering

3:3:0

Spring

* Prerequisite(s): University Advanced Standing and Formal Acceptance into the Mechanical Engineering Program or Department Approval

Focuses on importance of issues associated with global product development including product development needs in unfamiliar cultures, managing distributed design teams and manufacturing at remote and/or distributed sites. Introduces first-hand how global companies approach these issues.

ME 4810

Mechanical Engineering Capstone I

3:3:0

Fall

* Prerequisite(s): University Advanced Standing, Formal Acceptance into the Mechanical Engineering Program, and Departmental Approval

Serves as a comprehensive two-semester design experience from conception to modeling or prototype. Uses, where possible, multidisciplinary team application of the engineering design process along with project management, manufacturing methods and economic analysis. Culminates in a design review based on formal presentations of fully documented, detailed proposed designs. Capstone I and II must be taken in consecutive semesters.

ME 4820

Mechanical Engineering Capstone II

3:3:0

Spring

* Prerequisite(s): ME 4810 and University Advanced Standing

Serves as a second semester of the two-semester design experience from conception to modeling or prototype. Uses, where possible, multidisciplinary team application of the engineering design process along with project management, manufacturing methods and economic analysis. Culminates in a demonstration of a final product (model or working prototype) with verification and documentation of how final product meets customer needs. Capstone I and II must be taken in consecutive semesters.

ME 490R

Advanced Current Topics in Mechanical Engineering

1 to 3:1 to 3:0

On Sufficient Demand

* Prerequisite(s): University Advanced Standing and Formal Acceptance into the Mechanical Engineering Program or Department Approval

Provides exposure to emerging topics and technologies of current interest in mechanical engineering. Varies each semester depending upon the state of technology. May be repeated for a maximum of 6 credits toward graduation without prior written department approval.

Meteorology (METO)

METO 1010

Introduction to Meteorology

3:3:0

PP

Fall, Spring, Summer

Introduces the study of our atmosphere. Studies the Earth's dynamic weather systems. Covers structure and compositions of the atmosphere; weather patterns; air masses; and types of weather fronts, weather forecasting, and climates. Course fee of \$10 for lab applies.

METO 1020

Introduction to Meteorology Laboratory

1:0:2

Fall

Provides hands-on experience for students investigating various meteorologic phenomena discussed in METO 1010. Students desiring credit for a science major should take METO 1010 and METO 1020.

METO 1060 **PP**
Climate of the Earth
3:3:0 **On Sufficient Demand**

Examines the causes and effects of climate change through the use of geology, meteorology, astronomy, oceanography and biology.

METO 3100
Climate and the Earth System
3:3:0 **Spring**

* Prerequisite(s): (CHEM 1110 or CHEM 1210), (MATH 1050 or MATH 1055), GEO 1010, and University Advanced Standing

For students interested in understanding the Earth's dynamic environment. Studies the four major Earth systems that constitute the environment: the lithosphere, hydrosphere, atmosphere, and biosphere. Investigates the interdependency of these systems. Explores global warming, ozone depletion, the green house effect, Earth's energy balance and other environmental concerns and discusses important environmental cycles.

Business Management (MGMT)

MGMT 1010 **SS**
Introduction to Business
3:3:0 **Fall, Spring, Summer**

Overviews the business world, its structure, procedures, and vocabulary. Provides information to assist in making occupational choices. Methods include lectures, class discussions, group activities, videos, and guest speakers. Completers should have a general knowledge of business and career opportunities. May be delivered online. Canvas Course Mats \$13/Lumen applies.

MGMT 1200
Business English
3:3:0 **On Sufficient Demand**

* Prerequisite(s): ENGH 1000 or equivalent knowledge

For all those desiring to improve business English skills. Studies current usage of English grammar, including parts of speech, syntax, and punctuation. Emphasizes business usage. Lab access fee of \$32 for computers applies.

MGMT 1250
Principles of Leadership
3:3:0 **Fall, Spring**

Required course for integrated studies degree students with an emphasis in leadership. Overviews principles of leadership. Provides students with information on successful leadership styles. Includes lectures, videos, cases, group activities, and class discussion. Lab access fee of \$32 for computers applies.

MGMT 2030 **SS**
Women in Business
3:3:0 **Fall, Spring**

* Prerequisite(s): ENGL 1010

Explores the foundations of women in business today. Discusses the opportunities, challenges, and solutions of women as employees, managers, and leaders within all types of organizations. Includes topics such as opportunities for success, work-life issues, gender differences and role development, organizational culture and diversity, the glass ceiling and other barriers to success, career development, developing leadership, personal goals and ambitions, leadership styles, mentoring and coaching, and women in business professions. Includes lecture, in-class and online discussions, guest speakers, group activities, case studies, presentations, and written assignments.

MGMT 2110 (Cross-listed with: COMM 2110) **SS**
Interpersonal Communication
3:3:0 **Fall, Spring**

Examines the role of communication interpersonal relationships. Includes the history of interpersonal communication research and theory and applications such as negotiation, conflict management, listening, and assertiveness. Canvas Course Mats \$78/McGraw applies

MGMT 2240
Business Calculus
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): MATH 1050, MATH 1055 or MATH 1090 taken within the last two years with a C- grade or confirm competency with ALEKS.

Studies quantitative tools, which aid in decision making. Teaches business specific use of calculus, algebra, and introductory statistics, plus emerging non-linear mathematics (chaos) in business. Uses lectures, videos, online quizzes, online discussions, online tutoring, and problem sets to explain concepts. May be delivered hybrid and/or online. Canvas Course Mats \$72/McGraw applies. Lab access fee of \$32 for computers applies.

MGMT 2340
Business Statistics I
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): MATH 1050, MATH 1055, or MATH 1090 or higher

Presents an application of statistics in business and economics covering methods of collecting, analyzing, and presenting data. Includes frequency distributions, averages, index numbers, probability, sampling, estimation, analysis of variance, time series, regression and correlation, and chi-square. May be delivered online. Canvas Course Mats \$78/McGraw applies. Lab access fee of \$32 for computers applies.

MGMT 2450
The Principles of Personal Excellence
3:3:0 **On Sufficient Demand**

Introduce students to a holistic framework for the development of personal effectiveness and peak performance. Reviews principles, processes, and practices used by peak performers in many life disciplines. Offers students a chance to apply many practices and techniques, which they can apply within the many performances arenas of their life. Course fee of \$15 applies

MGMT 258R
Current Topics in International Business
1 to 3:1 to 3:0 **On Sufficient Demand**

* Prerequisite(s): Department Chair Approval

Provides exposure to emerging topics of current interest in international business. Topics vary each semester. May apply a maximum of three hours toward graduation.

MGMT 281R
Cooperative Work Experience
2 to 8:0:10 to 40 **Fall, Spring, Summer**

* Prerequisite(s): Approval from School of Business Career and Corporate Manager

Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the institution. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. Six credits may be applied toward graduation. May be graded credit/no credit.

MGMT 290R
Independent Study
1 to 3:1 to 3:0 **On Sufficient Demand**

Provides independent study as directed in reading and individual projects. Requests must be submitted for approval by the department. Approval for this program will be coordinated with the instructor. May be repeated for up to three credits.

MGMT 292R
Seminar
1 to 3:1 to 3:0 **On Sufficient Demand**

Designed to give the student added insight into management principles essential for successful management of a business. Includes guest experts from the field of business. May be repeated for a total of three credits.

MGMT 297H
Honors Seminar in Leadership Development
3:3:0 **On Sufficient Demand**

Emphasizes factors that impact leadership effectiveness and skill development in organizations. Features lectures on topics such as leadership, participative management, negotiations, team building, and women's issues by local experts in a seminar setting. Includes group interaction and discussions, written summaries and instructor critique of student performance.

MGMT 3000
Organizational Behavior
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): MKTG 2200 and University Advanced Standing

Studies behavioral theories and concepts for creating effective organizations. Deals with knowledge of individual, group, and organizational processes and variables focusing on people's attitudes and behaviors in organizational settings. Presents topics on communication, leadership, motivation, conflict management, socialization, team building, decision making, diversity, ethics, and culture. Includes lectures, case studies, oral presentations, written assignments, and group projects. May be delivered hybrid and/or online. Lab access fee of \$32 for computers applies.

Course Descriptions

MGMT 3020

Individual Action and Corporate Social Responsibility

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Focuses on moral issues in organizations and the role and importance these have in today's complex business environment. Explores the challenges that arise across the spectrum of business activity and studies human conduct in a business context and what constitutes right and wrong. Examines issues of ethics as they apply to business entities, managers, shareholders, customers, society, and other consultants. Focuses on identifying and solving real world ethical dilemmas in business, and evaluates various individual and corporate decision-making models.

MGMT 3070

Total Quality Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): MGMT 3450, Matriculation into Woodbury School of Business, and University Advanced Standing

Covers universal principles of quality assurance management, mechanics of a quality information system, and quality management practices. Emphasizes system elements, controls, and fitness for use. Includes process charting, quality costing concepts, statistical process control (SPC), sampling, variability, attribute charting, and continuing improvement strategies. May be delivered online. Lab access fee of \$32 for computers applies.

MGMT 3200 (Cross-listed with: HM 3200)

Global Tourism

3:3:0 Fall, Spring

* Prerequisite(s): (MKTG 2200 or ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies the history and future of tourism, the impacts (environment, culture, economy) of tourism, and tourist behavior. Includes lectures, case studies, field trips, and guest speakers. Completers should be sophisticated travelers and understand the nature of the world's largest industry and its impacts on society and national economics.

MGMT 3210 (Cross-listed with: HM 3210)

Convention and Events Management

3:3:0 Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Analyzes the meeting, convention, and events industry. Covers the various disciplines of planning including site selection, organizing, budgeting, catering, entertainment, and promotion. Introduces career opportunities through guest speakers who are industry professionals.

MGMT 330G

Survey of International Business

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020 or MKTG 2200), ECON 2010, and University Advanced Standing

Teaches international business, trade and foreign investment, and theories of international trade. Studies economic development, international investment and international agencies (government and private) that affect international business by informing, regulating or financing. Develops an appreciation of the unpredictable forces of foreign environments. Explores how international businessmen respond to these influences. May be delivered online. Canvas Course Mats \$78/McGraw applies

MGMT 332G (Cross-listed with: COMM 332G)

Cross Cultural Communications for International Business

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Required for international business majors and as an elective for all business majors. Discusses today's business environment which requires work in a multi-ethnic setting. Overviews critical elements that arise from the various cultural backgrounds, which can impact both domestic and international organizations. Proceeds from a management point of view with lessons easily derived for the mid-level manager as well as for line personnel. Concentrates on managerial communications, negotiations, cultural change, and management functions.

MGMT 3440

Managing Organizations

3:3:0 On Sufficient Demand

* Prerequisite(s): MGMT 3000 and University Advanced Standing

Studies management theory and emphasizes the managerial view of the elements and variables that influence the organization. Examines organizational design and change emphasizing the management tools used in planning, organizing, directing, controlling, and leading, and the coordinating of these factors within organizations. Uses current events as they relate to managing and developing the organization. Includes case analyses, team building exercises, videos, class discussions, group presentations, written assignments, and guest speakers. Lab access fee of \$32 for computers applies.

MGMT 3450

Operations Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): Matriculation into WSB and University Advanced Standing

Focuses on the management of resources for products, production, or services within an organization. Covers project management, supply chain, facility location and layout, forecasting, scheduling, planning, and operational processes. Emphasizes product/service development, supply chain, forecasting, inventory control, quality assurance, and research techniques. May be delivered hybrid and/or online. Canvas Course Mats \$78/McGraw applies. Course Lab fee of \$10 for operations management simulation applies. Lab access fee of \$32 for computers applies.

MGMT 3470

Lean Management Systems

3:3:0 Fall, Spring

* Prerequisite(s): MGMT 3450, matriculation into Woodbury School of Business, and University Advanced Standing

Teaches advanced operations management processes beyond introductory course. Studies process and value stream management. Teaches importance of continuous improvement and other techniques critical to operations management in modern organizations. Integrates hands-on experience in lean thinking processes.

MGMT 3500

Leadership Theory and Application

3:3:0 Spring

* Prerequisite(s): University Advanced Standing

Examines leadership theory and how it applies to real-world situations. Facilitates thinking and dialogue about leaders and the leadership process. Covers leadership development strategies and approaches for individuals, teams, and organizations. Includes readings, discussions, reflections, experiential activities, guest speakers, written papers, and innovative assignments. Required course for Integrated Studies Degree students with a Leadership emphasis. Lab access fee of \$32 for computers applies.

MGMT 3700

Supply Chain and Logistics Management

3:3:0

* Prerequisite(s): MGMT 3450 and University Advanced Standing

Teaches planning and controlling of supply chains and distribution networks. Covers concepts of network design, forecasting, aggregate planning, transportation, sourcing decisions, performance metrics, and the role of information technology in supply chain.

MGMT 3730

Opportunities in Direct Sales

3:3:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Discusses direct sales and the impact on our society. Covers basic terminology of the direct sales industry. Introduces distinctions between legal and illegal activity in the industry. Teaches the history of direct sales, compensation plans, and industry ethics. Analyzes communication skills in the direct sales industry. Explores the unique nature of the relationship between the company and the independent representative. Uses discussion, lecture, presentations and group activities to increase understanding and ability to analyze business under the umbrella of direct sales.

MGMT 3740

Relationship Marketing

3:3:0 On Sufficient Demand

* Prerequisite(s): MGMT 3730 and University Advanced Standing

For students interested in understanding relationship marketing as it applies to the direct selling industry. Focuses on the relationship between companies and their independent sales forces. Covers business ethics, compensation, structures, company conventions, distributor services, and online community building. Uses lectures, discussions, guest speakers, analyses in the field, and presentation of analysis in both oral and written format.

MGMT 4470

Strategic Operational Planning

3:3:0

* Prerequisite(s): MGMT 3450 and University Advanced Standing

Integrates planning concepts in the planning hierarchy within a manufacturing framework. Explores in depth the concepts of capacity planning, advanced sales and operational planning, demand management and forecasting, advanced MRP/ERP, inventory control, scheduling and lot sizing. Focuses on linkages between production planning and execution.

MGMT 4480

Management Science and Optimization

3:3:0

* Prerequisite(s): MATH 1100 (or higher) or MGMT 2240, MGMT 2340, and University Advanced Standing

Explores management science and optimization models in depth, focusing on business applications and computer modeling. Introduces linear programming, integer programming, nonlinear programming, goal programming and network flow models. Studies transportation, assignment and transshipment problems. Also studies stochastic models, queueing, simulation and decision analysis.

MGMT 450R

Leadership Practicum

1 to 3:0:3 to 9

* Prerequisite(s): University Advanced Standing

Designed for upper-division students interested in acquiring and practicing applied leadership skills. Covers project management, team participation and/or leadership, effective meeting management, decision-making, and budgeting. May be repeated for a maximum of 6 credits toward graduation.

MGMT 458R

Advanced Topics in International Business

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Department Chair Approval and University Advanced Standing

Provides exposure to emerging topics of current interest in international business. Topics vary each semester. May apply a maximum of 6 hours toward graduation.

MGMT 4620

Developing Business in China

3:3:0

Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020), Junior Standing, and University Advanced Standing

Introduces the key factors driving the economy and companies doing business in and with China. Compares the institutions and characteristics of the Chinese economy and business system. Identifies issues facing managers of western corporations producing and selling in the Chinese market, sourcing from Chinese industry and competing with Chinese rivals.

MGMT 481R

Internship

1 to 8:0:5 to 40

Fall, Spring, Summer

* Prerequisite(s): Approval from School of Business Career and Corporate Manager and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Business Management. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. No more than three credit hours of internship work experience will apply toward graduation in any Business Management Specialization; may be repeated for a maximum of 8 credits. May be graded credit/no credit.

MGMT 4835

Management Consulting Strategy Implementation

1:1:0

* Prerequisite(s): Department Approval

* Corequisite(s): MGMT 4840

Builds on strategic management concepts and consulting course material using a hands-on, competitive business simulation.

MGMT 4840

Management Consulting

3:3:0

Fall, Spring

* Prerequisite(s): FIN 3100 with a minimum grade of B-, Instructor approval, and University Advanced Standing

* Corequisite(s): MGMT 4835

Builds knowledge and capability in the consulting process, competitive- and corporate-level strategic management elements, and client management strategies. Develops a business project with teams of students working together with a specific, recruited, local company. Applies knowledge and skills from the business curriculum, student teams will gather needed data, analyze it, problem-solve, and craft recommendations in order to improve competitive implementation and meet firm objectives using strategic management and project management tools.

MGMT 4860

Business Strategy Formulation and Implementation

4:4:0

* Prerequisite(s): FIN 3100, MKTG 3600, MGMT 3000, MGMT 3450 and Matriculation into the Woodbury School of Business and University Advanced Standing. Senior standing is recommended.

The capstone course for the Bachelor's Degree in Business Management. Provides a program of study and the necessary lab work to integrate major functional management area skills using case analysis and methods and a competitive business simulation while instilling strategic management concepts and thinking processes. Includes written and oral reports, lectures, class discussions, group projects, simulations, and when appropriate, utilizes videos and guest speakers. May be delivered online. Canvas Course Mats \$78/McGraw applies

MGMT 4870

International Management

3:3:0

Spring

* Prerequisite(s): MGMT 3000, MKTG 3600, Matriculation into the Woodbury School of Business, and University Advanced Standing

Examines in depth the leading forces and trends shaping the opportunities and challenges confronted by multinational corporations (MNCs) as they assemble, grow, mature, coordinate and control their international network of subsidiaries, joint-ventures, alliances, and supplier firms. Examines the strategies pursued by MNCs in response to opportunities and challenges in this process, consistent with their distinctive strengths and weaknesses; and theories. Contrasts the models and strategic frameworks relating these strategies and forces/trends. Includes group project (written and oral presentations) on a multinational corporation developing or maturing its network in a selected market. Canvas Course Mats \$78/McGraw applies

MGMT 490R

Independent Study

1 to 3:1 to 3:0

On Sufficient Demand

* Prerequisite(s): Department Chair Approval and University Advanced Standing

For bachelor's degree students and other interested persons. Offers independent study as directed in reading, in individual projects, etc., in the area of marketing and/or international business at the discretion and approval of the department chairperson. May apply a maximum of 6 hours toward graduation.

MGMT 492R

Human Resource Seminar

1:1:0

On Sufficient Demand

* Prerequisite(s): Department Chair Approval and University Advanced Standing

Presents guest speakers on emerging human resource (HR) research and issues: strategy, international, culture, legal issues, planning and job analysis, recruitment and selection, performance management, compensation and benefits, and career development. May be repeated for 2 credits toward graduation.

MGMT 494R

Seminar

.5 to 3:.5 to 3:0

On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Provides short courses, workshops, and special programs in business management, leadership, or current business topics. Repeatable for up to 3 credits toward graduation.

MGMT 495R

Executive Lecture Series

1:1:0

Fall, Spring

* Prerequisite(s): University Advanced Standing

Consists of lectures presented by guest speakers on current business topics concerning the student, community, nation, business world, etc. May be required in business programs; see specific program listings for details. May apply a maximum of 3 credits toward graduation.

Course Descriptions

MGMT 497H

Business Honors Seminar

1 to 3:1 to 3:0 **On Sufficient Demand**

* Prerequisite(s): Permission required, 3.4 GPA or higher, senior status, and University Advanced Standing

Provides in-depth exposure to an issue of current interest in business by a local expert in a seminar setting. Includes group interaction and discussion, critical analysis of readings, and critique of student writings. Topics vary each semester.

MGMT 4980

Business Research Seminar

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Instructor Approval and University Advanced Standing

Studies the process of researching and writing for scholarly publication. Includes understanding the concepts of scholarly conversation, managing scholarship, choosing a topic, identifying appropriate journals, using exemplars, creating a title and abstract, making an outline, developing an introduction and conclusion, writing the body of the paper, and then revising, submitting, and finally publishing in a scholarly journal.

MGMT 6000

Career Development and Advancement

1.5:1.5:0

* Prerequisite(s): Acceptance into the UVU MBA program

Develops ability to implement the career management process by exploring the structure of career research and networking. Enhances interviewing and salary negotiation skills and abilities. Also addresses the transitional soft skills needed in a career management position. Provides interaction between students and successful leaders of business and nonprofit organizations throughout the semester.

MGMT 6215

Managing and Facilitating Professional Teams

3:3:0

* Prerequisite(s): Admission to Master of Accountancy or the Master of Business Administration Program

Enhances the ability to analyze and function in team-based, professional environments. Teaches what actions are needed to increase the effectiveness of a team, solve interpersonal problems, and remove common roadblocks.

MGMT 6450

Operations Management

3:3:0

Fall

* Prerequisite(s): Acceptance in the MBA program

Analyzes operations and production activities. Reviews basic processes. Analyzes managing a production or service organization, evaluation of concepts such as inventory control, production control, procurement, quality management, planning, and forecasting.

MGMT 6500

Managing Individuals and Groups

3:3:0

Fall

* Prerequisite(s): Acceptance in the MBA program

Exposes students to the concepts, theories, and practices related to the behavior and attitudes of people in organizations. Examines issues at the individual, group, and organizational levels, including topics such as individual differences, motivation, leadership, human resource management, teamwork, and organizational design, and structure.

MGMT 6510

Information Systems and Project Management

3:3:0

Spring

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Examines information systems at the general management level. Employs a strategic look at needs of any organization and how the function of information systems assists in the effectiveness of organizations.

MGMT 6740

Operations and Supply Chain Management

3:3:0

* Prerequisite(s): MGMT 6450

Utilizes advanced topics in operations research which develop decision making processes for complex organizations and systems. Identifies creative methods to analyze problems, develop alternative processes for decision making, and optimum processes for business and organizations.

MGMT 6800

Global Business Strategy

3:3:0

Summer

* Prerequisite(s): Acceptance in the MBA program

Integrates case analysis considered from the CEO's perspective. Evaluates global competitiveness, strategic assessment, policy development, and strategy implementation.

MGMT 6910

Designing Business

1.5:1.5:0

Fall

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Provides an opportunity to integrate the functional areas of business using a simulation, a comprehensive business case, or a consulting project with a community-based organization.

MGMT 6930

International Engagement

1.5:1.5:0

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Provides an integrated, engaged, learning opportunity for students to experience differences in culture and business operations of another country through the completion and reflection of an international consulting project or case studies, and a possible international experience. Projects or case studies will require the integration of functional areas of business in an international setting, and will highlight how these functions are interrelated.

MGMT 6940

MBA Consulting Project

3:3:0

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Utilizes community consulting to focus on business development through identifying, evaluating, and executing business opportunities within new and existing businesses. Implements consulting processes and strategies, and allows students to practice tools and techniques for developing business models.

Microbiology (MICR)

MICR 2060

BB

Microbiology for Health Professions

3:3:0

Fall, Spring, Summer

* Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010 with a C- or higher in each. CHEM 1110 or higher is highly recommended

* Corequisite(s): MICR 2065

Studies the history of microbiology. Explores bacterial, fungal, parasitic, and viral diseases and their causes. Discusses the classification, physiology, genetics, and physical and chemical control of microbes. Emphasis is on clinical applications. Designed for those planning a career in the health professions such as nursing, dental hygiene, medicine, pharmacy, and dentistry. Includes weekly laboratory.

MICR 2065

Microbiology for Health Professions

Laboratory

1:0:2

Fall, Spring, Summer

* Prerequisite(s): BIOL 1010 or BIOL 1610, ENGL 1010.

CHEM 1110 highly recommended

* Corequisite(s): MICR 2060

Studies the history of microbiology. Explores bacterial, fungal, parasitic, and viral diseases and their causes. Discusses the classification, physiology, genetics, and physical and chemical control of microbes. Emphasis is on clinical applications. Designed for those planning a career in the health professions such as nursing, dental hygiene, medicine, pharmacy, and dentistry. Includes weekly laboratory. Course Lab fee of \$44 for materials, lab applies.

MICR 3200
Emerging and Re Emerging Diseases and Zoonoses
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): BIOL 1620 and (MICR 2060 or MICR 3450) with a C- or higher in each and University Advanced Standing

Utilizes the most current infectious disease entities as examples for new (emerging) or old (re-emerging) diseases currently affecting mankind. Also discusses zoonotic diseases (those transmissible from animals to humans and vice-versa) in detail. Emphasizes the underlying mechanisms of disease, and includes fundamental aspects of virology, bacteriology, and parasitology. Also covers fundamental concepts in epidemiology, how the public health system deals with these diseases once they have been identified and instances where the public health system has failed in controlling these diseases and the reasons for these failures. Investigates historical aspects of infectious diseases. Requires a written paper and a presentation on the disease entity of the student's choosing.

MICR 3450
General Microbiology
3:3:0 **Fall**
 * Prerequisite(s): BIOL 3400 with a C- or higher and University Advanced Standing; BIOL 3600 recommended
 * Corequisite(s): MICR 3455

Covers taxonomy, physiology and genetics of prokaryotes (bacteria, Archaea), viruses and eukaryotic pathogens. Introduces industrial microbiology, biotechnology, and immunology and the biochemical basis of infectious diseases. Designed for biology majors who desire an in-depth coverage of microbiology.

MICR 3455
General Microbiology Laboratory
1:0:2 **Fall**
 * Prerequisite(s): BIOL 3400 and University Advanced Standing; BIOL 3600 recommended
 * Corequisite(s): MICR 3450

Hands-on laboratory procedures that studies the methods of taxonomy and distinguishes physiology and genetics of prokaryotes (bacteria, Archaea), viruses and eukaryotic pathogens. Introduces methods used in industrial microbiology, biotechnology, and immunology and the biochemical basis of infectious diseases. Designed for biology majors who desire an in-depth coverage of microbiology. Course Lab fee of \$60 for materials, lab applies.

MICR 4300
Pathogenic Microbiology
4:3:2 **Spring**
 * Prerequisite(s): [MICR 3450 or (MICR 2060 with instructor consent)] and University Advanced Standing

Discusses fundamentals of immune mechanisms, pathogenesis, replication, and infection. Explores bacterial, viral, fungal, protozoan, and helminth pathogens. Discusses identification, control, and treatments. Includes weekly laboratory. Course Lab fee of \$25 applies.

MICR 4500
Virology
3:3:0 **Fall**
 * Prerequisite(s): BIOL 3400 and [MICR 3450 or (MICR 2060 with instructor consent)] and University Advanced Standing; BIOL 3600 recommended

Examines the fundamentals of virology. Covers viral structure, biochemistry, genomics, viral multiplication cycles in prokaryotic and eukaryotic cells, and techniques used in viral studies. Also discusses viral diseases, transmission, therapy, evolution, and epidemiology.

Military Science (MILS)

MILS 1200
Introduction to Leadership Excellence I
2:2:0 **Fall**
 * Corequisite(s): MILS 145R

Presents historical overview and development of military value systems and philosophies. Studies individual leadership styles, organization and time management, and writing skills. Includes ethics and code of an officer, role of an officer in the military, drill and ceremonies, fire team tactics, map reading, and basic rifle marksmanship. Lab required.

MILS 1210
Introduction to Leadership Excellence II
2:2:0 **Spring**
 * Prerequisite(s): MILS 1200 or Department Approval
 * Corequisite(s): MILS 145R

Compares and analyzes leadership styles found in the U.S. Army, as well as business, academic, and government organizations. Studies Army organization, active and reserve forces; winter survival, advanced fire-team and aggressor tactics. Lab required.

MILS 143R
Military Fitness
1:0:3 **Fall, Spring**

For Army ROTC students and all other interested students. Uses the Army Physical Fitness Test to evaluate the student's performance and improvement in the areas of flexibility, strength, and endurance. Includes instruction in foot care and road marching techniques. Repeats are required. See advisor for details.

MILS 145R
Introduction to Leadership Dynamics and Techniques
1:0:3 **Fall, Spring**
 * Prerequisite(s): Department Approval

Leadership lab for UVU Army ROTC students and other students interested in the study of leadership. Studies the dynamics of leadership of groups and individuals in various environments. Provides opportunities for students to apply leadership principles and techniques in challenging situations and conditions. Required lab for students enrolled in UVU Military Science 1000- and 2000-level classes. Students not enrolled in Army ROTC may take this class up to six credits with department approval.

MILS 2050
Small Unit Combat Tactics
2:2:0

Introduces cadets to the personal challenges and competencies that are critical for effective leadership by introducing cadets to the personal development of life skills, critical thinking, goal setting, time management, and physical/mental fitness.

MILS 2200
Advanced Organizational Leadership I
2:2:0 **Fall**
 * Prerequisite(s): MILS 1210 or Dept. Approval
 * Corequisite(s): MILS 245R

Builds on skills and fundamentals learned in MILS 1200 and 2210. Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or any career field they choose.

MILS 2210
Advanced Organizational Leadership II
2:2:0 **Spring**
 * Prerequisite(s): MILS 2200 or Dept. Approval
 * Corequisite(s): MILS 245R

Builds on skills and fundamentals learned in MILS 2200 and 1210. Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose.

MILS 245R
Leadership Studies
1:0:3 **Fall, Spring**
 * Prerequisite(s): MILS 145R or instructor approval

Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. May be repeated for up to four credits with departmental approval.

MILS 259R
Current Topics in Military Science
3:3:0 **On Sufficient Demand**

Provides exposure to emerging issues of current interest in military science. Topics vary each semester. May be repeated for a maximum of 9 credits toward graduation.

MILS 3200
Small Unit Leadership I
3:3:0 **Fall**
 * Prerequisite(s): MILS 2210
 * Corequisite(s): MILS 345R

Prerequisite to attendance at National Advanced Leadership Camp. Prepares for successful completion of camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

Course Descriptions

MILS 3210

Small Unit Leadership II

3:3:0

Spring

* Prerequisite(s): MILS 3200

* Corequisite(s): MILS 345R

Prerequisite to attendance at National Advanced Leadership Camp. Prepares for successful completion of camp. Studies land navigation, squad and platoon tactics, combat operations, physical fitness, and physical leadership. Lab required.

MILS 345R

Advanced Leadership Dynamics and Techniques

1:0:3

Fall, Spring

* Prerequisite(s): Departmental Approval

Leadership lab for UVU Army ROTC students and other students interested in the study of leadership. Studies the dynamics of leadership of groups and individuals in various environments. Provides opportunities for students to apply leadership principles and techniques in challenging situations and conditions. Required lab for students enrolled in UVU Military Science 3000- and 4000-level classes. Students not enrolled in Army ROTC may take this class four times for credit with department approval.

MILS 4200

The Profession of Arms I

3:3:0

Fall

* Prerequisite(s): Departmental Approval

* Corequisite(s): MILS 445R

Prepares the prospective officer for initial training and subsequent assignment into the U.S. Army. Includes overview of U.S. Army training management, military writing, administration, logistics, professionalism, and ethics. Lab required.

MILS 4210

The Profession of Arms II

3:3:0

Spring

* Prerequisite(s): MILS 4200 or Departmental Approval

* Corequisite(s): MILS 445R

Prepares the prospective officer for successful completion of Army assignments. Includes advanced U.S. Army leadership training, training management, military justice and law, pre-commissioning orientation, military briefing skills, and junior officer leadership.

MILS 445R

Transition to Officership

1:0:3

Fall, Spring

* Prerequisite(s): Departmental Approval

Leadership Lab for UVU Senior Army ROTC students. Studies the dynamics of leadership of groups and individuals in various environments. Provides opportunities for students to refine leadership skills in preparation for service with the United State Army. Required lab for students enrolled in UVU Military Science 4000-level classes. ROTC students may take this course up to 4 credits with departmental approval.

MILS 4500

Advanced Leadership and Operations

3:3:0

Fall, Spring

* Prerequisite(s): MILS 3200, MILS 3210, MILS 4200 and MILS 4210

Prepares the prospective officer for successful completion of Army assignments. Includes advanced understanding of U.S. Army operations and training, Officer, Non-Commission Officer and enlisted personnel management, and the use of the Military Decision Making Process.

Marketing (MKTG)

MKTG 2200

Written Business Communication

3:3:0

Fall, Spring, Summer

Teaches written correspondence and business reports using direct and indirect approaches. Emphasizes basic language utilization. Includes application of communication principles to business writing situations. Requires completion of a formal research document. May be delivered online. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies.

MKTG 2390

Professional Business Presentations

3:3:0

Fall, Spring

For students and others interested in developing effective business presentations skills. Teaches students to plan, develop, deliver, and evaluate business presentations using informative and persuasive formats in diverse settings using a variety of media. Provides additional presentation software training. Lab access fee of \$32 for computers applies.

MKTG 259R

Current Topics in Marketing

1 to 3:1 to 3:0

On Sufficient Demand

* Prerequisite(s): Department Chair Approval

Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of three hours toward graduation.

MKTG 281R

Marketing Cooperative Work Experience

1 to 3:0:5 to 15

On Sufficient Demand

* Prerequisite(s): Internship Orientation and Departmental Approval

Provides opportunities to apply classroom theory on the job. Students work as paid employees in a job that relates to their careers while enrolled at the college. Credit is determined by the number of hours a student works during the semester. Completers meet individually set goals. May be repeated for a maximum of 6 credits toward graduation. Graded Credit/No Credit.

MKTG 290R

Independent Study

.5 to 3:.5 to 3:0

On Sufficient Demand

* Prerequisite(s): Department Chair Approval

Provides independent study as directed in reading and individual projects specifically related to the Marketing field at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 6 credits toward graduation.

MKTG 3220

Retail Management

3:3:0

Fall, Spring

* Prerequisite(s): MKTG 3600 and University Advanced Standing

Combines theoretical concepts with practical applications from a strategic management perspective. Includes lectures and discussions of current events within the retail industry to provide the primary basis for the integration of course materials with actual retail enterprise operations. Includes participation in a number of experiential learning exercises such as group and individual case analyses, outside research on the retail industry and specific retail firms, class presentations, guest speakers, and quizzes on selected retailing issues and practices. Lab access fee of \$32 for computers applies. Canvas Course Mats \$78/McGraw applies

MKTG 335G

International Marketing

3:3:0

Fall, Spring

* Prerequisite(s): MKTG 3600 and University Advanced Standing

Presents the problems of marketing in the international marketplace and how marketers approach and solve them. Focuses on concepts and principles by teaching the theory and practice of international marketing through the use of practical examples and actual case studies of international (both US and foreign) marketing organizations. Includes international marketing position of the US, market entry strategies, analysis of foreign markets, culture and marketing, product design, pricing, distribution, promotion and sales. May be delivered online. Lab access fee of \$32 for computers applies.

MKTG 3390

Business and Professional Presentations

3:3:0

On Sufficient Demand

* Prerequisite(s): MKTG 2200 and (complete one of the following: IM 2400, IM 2010, IM 101B, or business computer proficiency or Instructor Approval) and University Advanced Standing

For those interested in developing business and professional presentation skills. Emphasizes critical thinking as students plan, develop, deliver, and evaluate presentations using informative and persuasive formats in diverse settings using a variety of media. Incorporates aspects of multimedia. Successful completers should make business presentations professionally and confidently. Lab access fee of \$32 for computers applies.

MKTG 3460

Internal Marketing and Corporate Imaging

3:3:0

* Prerequisite(s): MKTG 3600 and University Advanced Standing

Introduces students to the fundamentals of Internal Marketing and Corporate Imaging. Focuses on internal marketing strategy, critical incident management, organizational change, employer brand, cause marketing, corporate citizenship, internal business communication and event management. Includes other topics, such as contingency planning, organizational culture, employee programs and training, motivation and internal reward programs. Includes case analysis, lectures, class discussions, group work and evaluation, videos, oral presentations, written assignments and guest speakers.

MKTG 3600
Principles of Marketing
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Required for most School of Business Bachelor of Science Degree students and is elective credit for other majors. Studies consumers, markets, and environments from the perspective of the marketing manager. Covers consumer behavior, marketing research, product management, and channels of distribution. Explores pricing, advertising, and personal selling. Includes case analysis, lectures, class discussions, videos, oral presentations, written assignments, and guest speakers.

MKTG 3620
Consumer Behavior
3:3:0 Fall, Spring
 * Prerequisite(s): MKTG 3600 and University Advanced Standing

Includes an analysis of consumer spending and saving habits, product preferences, shopping behavior, leisure time patterns, and social change. Explores the influence of advertising, selling and fashion trends. Includes lectures, class discussions, videos, projects, case analyses, oral presentations, written assignments, and guest speakers. Lab access fee of \$32 for computers applies.

MKTG 3630
Services Marketing
3:3:0 On Sufficient Demand
 * Prerequisite(s): MKTG 3600 and University Advanced Standing

Presents skills and attitudes necessary to market services and to provide good customer service. Emphasizes the marketing skills involved in marketing services and basic marketing concepts, including positive customer relations, effectively handling customer complaints, and sound customer service procedures. Completers should develop successful service marketing strategies that can be applied in a business organizational setting. Includes lectures, guest speakers, video tapes, role plays, case analysis, oral presentations, and written assignments. Lab access fee of \$32 for computers applies.

MKTG 3640
Sales Management
3:3:0
 * Prerequisite(s): MKTG 3600, MKTG 3650, and University Advanced Standing

Studies issues related to planning for, organizing, staffing, motivating, directing, and controlling a sales force and related sales territories. Addresses both international and domestic perspectives. Gives special emphasis to the efficiency (cost consideration) and effectiveness (satisfaction consideration) of sales management.

MKTG 3650
Professional Selling
3:3:0 Fall, Spring
 * Prerequisite(s): MKTG 3600 and University Advanced Standing

Emphasizes theoretical skills in the personal selling process and the management of a sales force. Studies the recruiting, training and supervising of salespersons, organization of territories, compensation schemes, and forecasting. Includes lectures, guest speakers, video tapes, role playing, case analysis, oral presentations, and written assignments. Lab access fee of \$32 for computers applies.

MKTG 3660
Digital Marketing
3:3:0 Fall, Spring
 * Prerequisite(s): MKTG 3600 and University Advanced Standing

Provides an introduction to the many business uses of the Internet to create competitive advantage. Features discussions of e-business strategic components and practice with Web page exercises. Uses guided exercises to explore the Net, both in and out of class. Includes projects, research, and Net use in a particular industry. Emphasizes the sharing of concepts discussed in lectures, class activities, the assigned readings, and group projects. Lab access fee of \$32 for computers applies.

MKTG 3670
Advertising and Promotion
3:3:0 Fall, Spring
 * Prerequisite(s): MKTG 3600 and University Advanced Standing

Provides an understanding of advertising, its purposes, and production. Includes sequence of activities in preparing productive, persuasive marketing and advertising campaign plans. Covers the social, legal, and economic considerations involved in the campaign planning process. Includes lectures, class discussions, guest speakers, videos, and student presentations. Lab access fee of \$32 for computers applies.

MKTG 3680
Marketing with Social Media
3:3:0
 * Prerequisite(s): MKTG 3600 and University Advanced Standing

Teach students how to use social media platforms to market products and services. Includes the creation and marketing of a blog using WordPress and engaging with a local small business to write and execute a social media marketing campaign. Teaches the fundamentals of social media marketing and the most popular platforms like WordPress, Facebook, Twitter, Pinterest, and LinkedIn.

MKTG 3685
Content Marketing
3:3:0
 * Prerequisite(s): MKTG 3600, University Advanced Standing, and matriculation in the Woodbury School of Business

Introduces content marketing which includes blogging, infographics, video, podcasts, and email marketing as a way to bring commercial marketing messaging to targeted customers through marketing channels. Provides experience with blogging software, photo and image design software, video editing software, and email automation software using WordPress and Email Marketing Automation.

MKTG 3690
Advanced Digital Marketing and Analytics
3:3:0 On Sufficient Demand
 * Prerequisite(s): MKTG 3600 and University Advanced Standing

Teaches advanced digital marketing concepts and skills, including advanced training in web analytics search engine optimization, pay-per-click advertising, and email marketing. Includes a live client engagement and preparation for Google certifications.

MKTG 3695
Digital Marketing Capstone
3:3:0
 * Prerequisite(s): MKTG 3690, University Advanced Standing, and matriculation in the Woodbury School of Business

Applies digital marketing theories, principles, and tactics to a live learning engagement project. Provides a framework for developing a complete digital marketing plan and gives students an opportunity to learn software, automation tools, and digital marketing creative strategy.

MKTG 3890
Career Preparation
3:3:0 Fall, Spring, Summer
 * Prerequisite(s): MKTG 2200 and University Advanced Standing

Emphasizes the development of effective techniques for successfully locating, applying for, securing employment, and advancing in a career. Provides opportunities to do a self-analysis, research industry and job opportunities, and internalize appropriate etiquette in a variety of business and social settings. Includes demonstrations, role playing and application exercises, and group projects. May be delivered online. Lab access fee of \$32 for computers applies.

MKTG 4220
Management Communication
3:3:0 Spring
 * Prerequisite(s): MKTG 2200, Matriculation into the Bachelor's Degree Program, and University Advanced Standing

Studies elements of communication in management. Concentrates on written and oral communication in business settings and includes communicating electronically, managing conflict, and dealing with change. Lab access fee of \$32 for computers applies.

MKTG 4300
Marketing Analytics
3:3:0
 * Prerequisite(s): MGMT 2340

Uses software to apply specific models and analytic techniques to solve important and common marketing management problems. Models contemporary marketing problems using such analytic tools as SPSS, SEMTool, Sawtooth Software, CRM database software, and Bass Diffusion Modeling.

MKTG 4400
Competitive Intelligence
3:3:0 On Sufficient Demand
 * Prerequisite(s): Matriculation into any Woodbury School of Business Degree Program and University Advanced Standing

Teaches Competitive Intelligence (CI), the study of processes and techniques leading to business analysis applied to industry and company investigation. Overviews the Competitive Intelligence process including information collection, intelligence analysis, and intelligence process assessment.

Course Descriptions

MKTG 459R

Advanced Topics in Marketing

1 to 3:1 to 3:0

* Prerequisite(s): Department Chair Approval and University Advanced Standing

Provides exposure to emerging topics of current interest in marketing. Topics vary each semester. May apply a maximum of 12 hours toward graduation.

MKTG 4600

Marketing Research

3:3:0

Fall, Spring

* Prerequisite(s): MKTG 3600, MGMT 2340,

Matriculation into the Woodbury School of Business, and University Advanced Standing

Covers managerial uses of marketing research in formulating marketing strategy. Includes determination of situations requiring research, appraisal of alternative research methods, and evaluation of studies. Presents theoretical concepts in research methodology. Includes lectures, class discussions, group projects, case analyses, oral presentations, written assignments, and speakers. Lab access fee of \$32 for computers applies.

MKTG 4610

Sales Analytics

3:3:0

* Prerequisite(s): MKTG 3650 and University Advanced Standing

Provides a diagnosis of sales problems and data-driven solutions including decision support, SPSS modeling, and an introduction to data mining. Covers sales forecasting, correlation, regression, and survival analysis, CRM analysis, and territory analysis and design. Presents analytical decisions such as independent versus direct representation, compensation effects, and account customer life-time value.

MKTG 4650

Marketing Management

3:3:0

Fall, Spring

* Prerequisite(s): University Advanced Standing; For Marketing Majors only

Presents detailed marketing analysis skills, planning and control of various marketing mix variables, target markets, and the marketing environment using both oral and written case studies. Includes lectures, class discussions, videos, projects, case analyses, oral presentations, written assignments, and guest speakers.

MKTG 481R

Marketing Internship

1 to 3:0:5 to 15

Fall, Spring, Summer

* Prerequisite(s): Departmental Approval and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Marketing. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

MKTG 482R

Sales Internship

1 to 8:0:5 to 40

On Sufficient Demand

* Prerequisite(s): Departmental Approval and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Marketing. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

MKTG 483R

Digital Marketing Internship

1 to 8:0:5 to 40

On Sufficient Demand

* Prerequisite(s): Departmental Approval and University Advanced Standing

For upper-division students working toward a Bachelor of Science Degree in Marketing. Provides a transition from school to work where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

MKTG 490R

Independent Study

1 to 3:1 to 3:0

* Prerequisite(s): Department Chair Approval

Provides independent study as directed in reading and individual projects specifically related to the Marketing field at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 6 credits toward graduation.

MKTG 494R

Seminar

.5 to 3:1.5 to 3:0

On Sufficient Demand

* Prerequisite(s): Department Chair Approval and University Advanced Standing

Provides short courses, workshops, and special programs in business management, leadership, or current business topics. Repeatable for up to six credits toward graduation.

MKTG 4980

Research Seminar in Marketing

3:3:0

On Sufficient Demand

* Prerequisite(s): Department Chair Approval and University Advanced Standing

Studies the process of researching and writing for scholarly publication. Includes understanding the concepts of scholarly conversation; managing scholarship; choosing a marketing topic; identifying appropriate journals; using exemplars; creating a title and abstract; making an outline; developing an introduction and conclusion; writing the body of the paper; and then revising, submitting, and finally publishing in a scholarly journal.

MKTG 6600

Marketing Strategy

3:3:0

Summer

* Prerequisite(s): Acceptance in the MBA program

Analyzes current marketing management problems. Emphasizes marketing concepts, research techniques, decision making, and marketing strategy development.

MKTG 6620

Marketing Research and Analytics

3:3:0

Fall

* Prerequisite(s): Acceptance into MBA program

Explores tools and analysis techniques related to customer relationship management. Focuses on "thick" data research, including: ethnography, social listening, interviewing, and laddering. Utilizes research tools, such as survey design, web analytics, and eye-tracking technology, to collect and analyze data through factor analysis, cluster analysis, classification trees, and multidimensional scaling.

MKTG 6640

Brand, Product, and Services Management

3:3:0

Fall, Spring

* Prerequisite(s): Acceptance into MBA program

Focuses on the practice of advanced marketing management topics including: brand management, product management, product development, services marketing, pricing and conjoint analysis. Integrates forecasting including diffusion models and other tactics, resource allocation, and managing profit and loss statements.

MKTG 6660

Marketing Channels and Communications

3:3:0

Fall, Spring

* Prerequisite(s): Acceptance into MBA program

Explores key advanced marketing practices related to delivering and communicating value. Examines retailing, e-commerce, websites, personal selling, lead generation, digital marketing, as well as promotion and campaign management.

MKTG 6860

Applied Business Research

3:3:0

Fall

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Provides students with the capability to design and conduct applied business research projects in the varied disciplines as well as integrative across disciplines. Examines the philosophy of science, research design, measurement and scaling, reliability and validity, communication of research results, and related issues.

MKTG 6920

Creativity and Innovative Problem Solving

1.5:1.5:0

* Prerequisite(s): Acceptance into the Woodbury School of Business MBA program

Applies an understanding of the nature of creativity and expansive problem solving within the business environment through projects, simulations and/or case study. Provides awareness about individual and organizational characteristics which impact creative thinking and limit imaginative solutions.

Master of Public Service (MPS)

MPS 6000 Public Services Administration 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Explores senior level administrative functions within a public services organization. Analyzes and assesses positive and negative practices within public service organizations, including managerial actions and bureaucracy. May be delivered online.

MPS 6010 Public Services Finance and Budgeting 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Analyzes financial and budgeting operations occurring in the public sector. Assesses funding streams, budget development, financial management concerns, and fiduciary responsibilities of public service leaders. May be delivered online.

MPS 6020 Public Services Policy and Evaluation 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Provides the investigative, ethical, and development tools needed to form public policy and evaluate program success. Develops analysis skills to examine new ideas, test their viability, determine program needs, and organize to meet these needs. Designed to address how to make policy, how to assess if policy is working, and how to fix the flaws in existing policy. May be delivered online.

MPS 6030 Legal Issues for the Public Services 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Evaluates the law and its application within the public services. Examines constitutional principles in relation to public service functions. May be delivered online.

MPS 6040 Organizational Behavior in the Public Services 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Examines organizational behavior within the public services and compares and contrasts it to the private sector. Researches the public services to make comparisons and develop a theoretical basis, for use in administrative decision-making in dealing with organizations and their people. Applies conceptual frameworks, case discussions, and skill-oriented activities which include: motivation, learning and development, group dynamics, leadership, communication, power and influence, change, diversity, organizational design, and culture. Helps participants acquire skills and analytic concepts to improve organizational relationships and effectiveness. May be delivered online.

MPS 6050 Public Services Leadership and Ethics 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Analyzes leadership approaches within the public services. Identifies the need for people-centric leadership that serves both the public servants and the community. Uses case study analysis to differentiate between leadership approaches to people and the management of processes. Explores ethical issues in public service delivery. May be delivered online.

MPS 6060 Research Methods for the Public Services 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

Identifies qualitative and quantitative research methods within a public services framework. Introduces the impact social science discovery has on the formulation of public policy. Illustrates research designs utilized within qualitative and quantitative methodologies. May be delivered online.

MPS 690R Public Services Project 3:3:0

* Prerequisite(s): Acceptance into the Masters of Public Services Program

* Prerequisite(s) or Corequisite(s): MPS 6060

Teaches synthesis of public service/emergency services coursework and primary/secondary research in order to formulate a public policy or empirical work relating to public services administration. This course is intended to be successfully completed in one semester. In exigent circumstances, students may repeat this course for a total of 6 credits toward graduation, with departmental approval. May be delivered online.

Music (MUSC)

MUSC 1010 Introduction to Music FF 3:3:0 Fall, Spring, Summer

A survey course designed to make music more meaningful. Studies melody, harmony, form, and rhythm together with historical and biographical information. Canvas Course Mats \$50/Norton

MUSC 101H Introduction to Music FF 3:3:0 Spring

Develops an appreciation and understanding of music. Studies melody, harmony, form, and rhythm. Focuses on the historical development of Western art music, including the contributions of major composers. Examines musical genres such as the chant, motet, madrigal, concerto grosso, opera, cantata, oratorio, symphony, music drama and tone poem. Practices the aural identification of specific compositions.

MUSC 102G Introduction to World Music 3:3:0 Fall, Spring, Summer

Explores diverse music throughout the world. Studies melody, harmony, form, and rhythm in international historical and cultural contexts.

MUSC 1030 American Popular Music FF 3:3:0 Fall, Spring, Summer

Studies the emergence, development, and characteristics of American music including Jazz, Blues, Country, Rock, Motown, Hip-Hop, and other popular styles. Examines the contributions of European, African, Latin and other cultural traditions on American popular music. Studies the influences of mass media and technology. Examines the marketing and dissemination of popular music by the music industry. Studies the role of popular music as a symbol of race, class, gender, and generation. Fulfills the Fine Arts general education distribution requirement and addresses the Intellectual and Practical Skills Foundation essential learning outcomes of qualitative reasoning.

MUSC 1050 Beginning Piano I Fall 2:2:0

Provides group instruction for students with little or no piano and note-reading experience. Covers melodic and rhythmic notation, key recognition, and major and minor finger patterns. Teaches basic harmonization, transposition and improvisation. Course Lab fee of \$20 for equipment applies.

MUSC 1060 Beginning Piano II On Sufficient Demand 2:2:0 * Prerequisite(s): MUSC 1050

Builds on the skills learned in Beginning Piano I. Studies notation, scales, chord progressions, sight-reading, basic harmonization, transposition, and improvisation.

MUSC 1100 Fundamentals of Music FF 3:3:0 Fall, Spring, Summer

Examines the fundamentals of music theory such as pitch notation, meter, rhythm, time signatures, intervals, major and minor scales, key signatures, and triads. Fulfills the Fine Arts general education distribution requirement and addresses essential learning outcomes of quantitative reasoning. Lab access fee of \$10 for computers applies.

MUSC 1110 Music Theory I Fall, Spring 3:3:0 * Corequisite(s): MUSC 1130

Studies the fundamentals of music theory including elementary harmony, primary and secondary triads with inversions, non-harmonic tones and modulation.

MUSC 1120 Music Theory II Spring, Summer 3:3:0 * Prerequisite(s): MUSC 1110 * Corequisite(s): MUSC 1140

Provides further study of the fundamentals of music theory. Covers the analysis and composition of music using leading tone triads, seventh chords, secondary dominants, sequences, voice leading and modulation.

Course Descriptions

MUSC 1130 **Aural Skills I**

1:1:1 **Fall, Spring**
* Corequisite(s): MUSC 1110

Provides training in the aural identification of intervals and triads. Practices rhythmic dictation in simple meters, and melodic dictation of simple melodies. Studies the solfege movable "Do" system.

MUSC 1140 **Aural Skills II**

1:1:1 **Spring, Summer**
* Prerequisite(s): MUSC 1130
* Corequisite(s): MUSC 1120

Provides further training in the aural identification of intervals and triads. Practices rhythmic dictation in simple and compound meters, and melodic dictation in major and minor keys. Studies the solfege movable "Do" system.

MUSC 1150 **Group Piano I**

1:1:1 **Fall, Spring**

Develops fundamental piano skills including five-finger major and minor scales, arpeggios, chord progressions, sight-reading, and performance. Course Lab fee of \$20 for equipment applies.

MUSC 1160 **Group Piano II**

1:1:1 **Spring, Summer**
* Prerequisite(s): MUSC 1150 or equivalent proficiency examination

Builds on the skills learned in Group Piano I. Develops facility in two-octave major scales, arpeggios, chord progressions, sight-reading, harmonization, transposition, and performance. Course Lab fee of \$20 for equipment applies.

MUSC 1170 **Group Guitar I**

2:2:0 **Fall, Spring**

Teaches fundamental skills used in playing popular guitar styles. Covers essential left and right hand techniques as well as basic musical rudiments.

MUSC 1180 **Group Guitar II**

2:2:0 **On Sufficient Demand**
* Prerequisite(s): MUSC 1170

Develops a variety of right and left hand techniques. Teaches both standard and tablature-style notation. Provides solo and ensemble performance opportunities.

MUSC 124R **UVU Concert Choir**

1:2:0 **Fall, Spring**

Provides group training in the various styles of choral literature. Basic skills in note reading, matching pitch and blending with the ensemble expected. Requires participation at scheduled performances. May be repeated as desired.

MUSC 125R **University Band**

1:0:2 **On Sufficient Demand**

Provides group training in the various styles of band literature. Requires participation at scheduled performances. May be repeated as desired.

MUSC 1400 **Music Technology I**

2:2:0 **Fall**

Examines the fundamental concepts and usage of technologies in music. Studies the history of analog and digital recording and the emergence of synthesis. Details the historical and current uses of Musical Instrument Digital Interface (MIDI). Introduces the basics of a Digital Audio Workstation (DAW) and contemporary music notation. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 1402 **Music Technology II**

2:2:0 **Spring**

* Prerequisite(s): MUSC 1400

Builds on the concepts covered in Music Technology I. Examines the uses of Musical Instrument Digital Interface (MIDI) and virtual instruments in the modern Digital Audio Workstation (DAW). Studies in greater depth the processes of contemporary music notation. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 1410 **Survey of Commercial Music Careers**

1:1:0 **Fall**

Introduces optimal career paths in contemporary music. Covers careers including but not limited to film composition, arranging, production, film music editing, studio engineering, performance, and education. Emphasizes practical skills in entrepreneurship, marketing, and networking.

MUSC 145R **Private Lessons I**

1:1:0 **Fall, Spring, Summer**

Offers twelve 30-minute private lessons. Focuses on the individual needs of the student in developing skills and techniques. Requires personal practice as determined by instructor. Does not fulfill music major degree requirements. May be repeated as desired. Course fee of \$270 for support applies.

MUSC 1630 **Group Voice I**

1:1:1 **Fall, Spring**

Provides group instruction in the development of vocal skills and techniques. Covers classical vocal production, breath management, diction, and performance skills. Provides student performance of vocal literature from several genres and style periods.

MUSC 1640 **Group Voice II**

1:1:1 **On Sufficient Demand**

* Prerequisite(s): MUSC 1630 or instructor permission

Provides more advanced group instruction in the development of vocal skills and techniques. Covers classical vocal production, breath management, English and Italian diction, performance anxiety and performance skills. Provides student performance of vocal literature from several genres and style periods.

MUSC 1800 **Introduction to Music Education**

3:3:1 **Fall**

Introduces the music education profession including history, philosophy, professional communities, career opportunities, and music teaching standards. Emphasizes the place of music and the arts in education, the role of government in schools, meeting the challenges of 21st century education. Covers personal, professional, and musical skills necessary for successful music teaching and learning. Requires observation of music classrooms in public and private school settings outside of scheduled class time. Includes micro teaching and a final portfolio and interview which culminates in matriculation to the music education degree.

MUSC 1810 **Contemporary Theory and Improvisation I**

3:3:0 **Fall**

Teaches contemporary music theory through the development of basic improvisational techniques in jazz and popular styles. Introduces chord symbols for triads, 7th chords, and basic chord extensions. Develops improvisational performance skills through the application of melodic and rhythmic vocabulary to diatonic chord progressions in major and minor keys, 12-bar blues, applied dominants, and simple modulations.

MUSC 1820 **Contemporary Theory and Improvisation II**

2:2:0 **Spring**

* Prerequisite(s): MUSC 1810

Teaches contemporary music theory through the development of advanced improvisational techniques in jazz and popular styles. Introduces chord symbols not covered in Jazz and Contemporary Theory and Improvisation I, upper structures and slash chords. Develops performance skills through the application of melodic and rhythmic vocabulary to chord progressions that include modal mixture, chromatic elaboration of static harmony, tritone substitutions, side-slipping, and less-common modulations. Develops advanced rhythmic techniques including cross rhythm, double-time, anticipation/delay, and stretching the time.

MUSC 2001 **Diction for Singers I**

1:1:1 **Fall**

Teaches the International Phonetic Alphabet (IPA) as it pertains to the English, Italian and Latin languages. Applies IPA directly to song literature for each language. Provides basic reading, comprehension, and grammar skills in the Italian and Latin languages. Course Lab fee of \$15 for support applies.

MUSC 2002 **Diction for Singers II**

1:1:1 **Spring**

Teaches proficiency in the International Phonetic Alphabet (IPA) as it pertains to the German and French languages. Applies IPA directly to song literature for each language. Provides basic reading, comprehension, and grammar skills in each language. Course Lab fee of \$15 for support applies.

MUSC 2110
Music Theory III
3:3:0 **Spring**
 * Prerequisite(s): MUSC 1120

Studies the diatonic and chromatic materials of common practice music theory. Covers the analysis and composition of music using chromatic chords such as secondary dominants, diminished seventh chords, Neapolitan chords, and Italian, French and German sixth chords. Practices multiple methods of modulation.

MUSC 2125
Music Theory IV
3:3:0 **Spring**
 * Prerequisite(s): MUSC 2110

Surveys compositional techniques used by post-tonal composers. Builds on the knowledge and skills learned in the tonal music theory classes.

MUSC 2130
Aural Skills III
1:1:1 **Fall**
 * Prerequisite(s): MUSC 1140
 * Corequisite(s): MUSC 2110

Provides training in the aural identification of intervals, triad inversions and chord progressions. Practices rhythmic dictation of syncopated rhythms and asymmetric and mixed meters, and melodic dictation of disjunct melodies and two-part dictation. Studies the solfege movable "Do" system in major, minor keys and modes with coordinating Kodaly hand signs.

MUSC 2140
Aural Skills IV
1:1:1 **Spring**
 * Prerequisite(s): MUSC 2130

Provides further training in the aural identification of intervals, triad inversions and chord progressions. Practices rhythmic dictation of complex rhythm patterns and asymmetric and mixed meters. Teaches four-part harmonic dictation. Completes study of the solfege movable "Do" system.

MUSC 2150
Group Piano III
1:1:1 **Fall**
 * Prerequisite(s): MUSC 1160 or equivalent proficiency examination

Builds on the skills learned in Group Piano II. Develops further facility in one-octave harmonic minor scales, arpeggios, chord progressions, sight-reading, harmonization, transposition, improvisation, and accompanying. Course Lab fee of \$20 for equipment applies.

MUSC 2160
Group Piano IV
1:1:1 **Spring**
 * Prerequisite(s): MUSC 2150 or equivalent proficiency examination

Builds on the skills learned in Group Piano III. Develops facility in two-octave major and harmonic minor scales, arpeggios, chord progressions, sight-reading, harmonization, transposition, improvisation in classical and contemporary styles, playing contemporary and jazz chord charts, and accompanying. Course Lab fee of \$20 for equipment applies.

MUSC 2170
Jazz and Contemporary Keyboard Skills I
1:1:1 **Fall**
 * Prerequisite(s): MUSC 1160 or demonstration of equivalent keyboard proficiency

Introduces and develops basic jazz keyboard voicings and chord construction, rhythmic comping for jazz and popular styles, simple improvisation with left hand voicings, and fake book reading skills. Covers the Blues, ii-V-I, dominant cycles, tritone substitutions, diminished passing chords, and turnarounds with secondary dominants.

MUSC 2180
Jazz and Contemporary Keyboard Skills II
1:1:1 **Spring**
 * Prerequisite(s): MUSC 2170 or demonstration of equivalent keyboard proficiency

Builds on the jazz and contemporary keyboard skills developed in MUSC 2170. Teaches complex open and closed position chord voicings using 4, 5, and 6 notes, including chords built in fourths. Develops hand independence through the performance of composed and improvised melodies in the right hand while comping with the left hand. Develops advanced melodic and harmonic techniques over the Blues, ii-V-I, dominant cycles, tritone substitutions, diminished passing chords, and turnarounds with secondary dominants.

MUSC 2350
Fundamentals of Conducting
2:2:0 **Fall**
 Provides an introduction to the basics of conducting. Focuses on baton technique, score reading, interpretation and rehearsal.

MUSC 2400
Digital Audio Workstation
2:2:0 **Fall**
 * Prerequisite(s): MUSC 1402 or Music Technology Certificate major

Introduces the Digital Audio Workstation, including shortcuts and commands for maximizing effectiveness and understanding within the workstation. Covers the basics of the software interface, audio and MIDI recording and editing, effects and creating a final product. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 2420
Music Production Basics
2:2:0 **Spring**
 * Prerequisite(s): MUSC 2400

Introduces the basics of music production. Analyzes various aspects of contemporary music including sound and part selection for each instrument in the rhythm section. Discusses various recording and production techniques used in current music productions. Introduces students to technical production tools and techniques including but not limited to phasers, chorus, flange, delay, echo, reverb, compression, eq, filters, and distortion. Introduces the students to common production pitfalls such as overproduction. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 245R
Private Lessons II
1:1:0 **Fall, Spring, Summer**

Offers twelve 60-minute private lessons. Designed to meet the individual needs of the student in developing skills and techniques. Does not fulfill music major degree requirements. May be repeated as desired. Course fee of \$443 for support applies.

MUSC 250R
Private Lessons for Music Majors
1:1:0 **Fall, Spring, Summer**
 * Prerequisite(s): Music major entrance audition required.
 * Corequisite(s): MUSC 251R

Offers twelve 60-minute private lessons for music majors. Focuses on the individual needs of the student in developing skills and techniques. Requires participation in weekly performance class. Includes juried evaluations. May be repeated as desired. Course fee of \$443 for support applies.

MUSC 251R
Performance Class
1:1:0 **Fall, Spring, Summer**
 * Corequisite(s): MUSC 250R

Provides additional performance experience for music majors. Develops an ability to offer and receive constructive criticism. Explores performance-related topics such as practice strategies, performance anxiety, interpretive phrasing, technical mastery, memorization and jury preparation. May be repeated for a maximum of 12 credits toward graduation.

MUSC 281R
Internship in Music I
1 to 8:0:5 to 40 **Fall, Spring, Summer**
 * Prerequisite(s): Departmental Approval

Provides an opportunity for students to receive college credit and explore career options in music by working in music-related fields. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 8 credits towards graduation. May be graded credit/no credit.

MUSC 290R
Independent Study
1 to 3:0:3 to 9 **On Sufficient Demand**
 * Prerequisite(s): Instructor permission and advisor approval

Individual projects to be negotiated by student and instructor on a case-by-case basis to be approved by the departmental advisor. May be repeated for a maximum of 4 credits toward graduation.

MUSC 3005
Vocal Literature I
1:1:1 **Fall**
 * Prerequisite(s): MUSC 1120 and University Advanced Standing

Presents an overview of the English and Italian art song literature from 1500 to present. Provides performance training of stylistic elements appropriate for each time period.

Course Descriptions

MUSC 3006

Vocal Literature II

1:1:1 **Spring**

* Prerequisite(s): MUSC 3005 and University Advanced Standing

Presents an overview of the French and German art song literature from 1500 to present. Provides performance training of stylistic elements appropriate for each time period.

MUSC 3025

Songwriting I

2:2:0 **Fall**

* Prerequisite(s): MUSC 1400 and University Advanced Standing

Studies the creative processes and techniques involved in commercial songwriting. Covers the essential elements of lyric writing, setting lyrics to melody, and utilizing functional harmony. Explores the process of developing a production plan for a song demo. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 3026

Songwriting II

2:2:0 **Spring**

* Prerequisite(s): MUSC 3025 and University Advanced Standing

Expands on the skills learned in Songwriting I. Focuses on the demands of commercial music projects, including the creation of lyrics and songs that have mass appeal. Discusses the professional expectations of writing on demand in a specific musical style for requisitioned purposes. Covers the business aspects of songwriting including demos, property rights, publishing, and marketing options. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 3030

Jazz and Contemporary Arranging I

2:2:0 **Fall**

* Prerequisite(s): MUSC 2110 and University Advanced Standing

Teaches melodic construction, form, style, orchestration, harmonization, and rhythm section notation. Offers students the opportunity to create a portfolio of arrangements for small instrumental jazz ensemble.

MUSC 3031

Jazz and Contemporary Arranging II

2:2:0 **Spring**

* Prerequisite(s): MUSC 3030 and University Advanced Standing

Develops advanced arranging techniques for large instrumental jazz ensembles. Examines and analyzes scores by major composers. Offers students the opportunity to create original arrangements for large jazz ensemble.

MUSC 306R

Advanced Keyboard Skills

1:0:2 **Fall, Spring**

* Corequisite(s): MUSC 250R or MUSC 450R or MUSC 455R

Provides advanced study in piano technique, sight-reading, and ensemble skills. Develops pedagogical skills through masterclasses and teaching beginners. May be repeated for maximum of 12 credits toward graduation.

MUSC 3120

Form and Analysis

3:3:0 **Spring**

* Prerequisite(s): MUSC 2110 and University Advanced Standing

Explores the structure, meaning and organization of music. Concentrates on the standard practices of European-sphere music since 1600. Teaches techniques for understanding and classifying musical structure. Places techniques and knowledge from the first three semesters of music theory into a comprehensive whole.

MUSC 3150

Advanced Instrumental Conducting

2:2:0 **Spring**

* Prerequisite(s): MUSC 2350 and University Advanced Standing

Teaches advanced baton techniques, score preparation and basic rehearsal procedures for instrumental ensembles.

MUSC 320R

Masterworks Chorale

1:0:3 **On Sufficient Demand**

* Prerequisite(s): Audition

Provides group training in the various styles of choral literature. Requires attendance at scheduled performances. May be repeated as desired. Course fee of \$20 for support applies.

MUSC 322R

Chamber Choir

1:0:4 **Fall, Spring**

* Prerequisite(s): Audition

For the advanced singer desiring experience in choral performance. Provides the opportunity of performing in a small group of select singers. Studies music of various styles and periods. Requires participation in concerts, programs, and tours. May be repeated as desired. Course fee of \$20 for support applies.

MUSC 327R

Men's Choir

1:0:3 **Fall, Spring**

* Prerequisite(s): Audition

Provides male vocalists with advanced individual and ensemble training. Includes emphasis on auditioning, rehearsal and performance etiquette, and ensemble skills and dynamics. Requires participation in concerts, programs and tours. May be repeated as desired. Course Lab fee of \$15 for support applies.

MUSC 328R

Women's Choir

1:0:3 **Fall, Spring**

* Prerequisite(s): Audition

Provides female vocalists the opportunity to perform in a select group of treble singers. Studies music of various styles and periods. Requires participation in concerts, programs, and tours. May be repeated as desired. Course fee of \$20 for support applies.

MUSC 330R

Wind Symphony

1:0:4 **Fall, Spring**

* Prerequisite(s): Audition

Improves musical performance skills by participation in the band. Studies and performs serious concert literature. Requires attendance at all concerts, performances, tours and acquisition of performance attire. May be repeated as desired.

MUSC 331R

Percussion Ensemble

1:0:3 **Fall, Spring**

* Prerequisite(s): Audition

Provides percussion ensemble experience. Emphasis on sight reading and music performance skills. Attendance is expected at all concerts, rehearsals, and tours. May be repeated as desired.

MUSC 332R

Jazz Orchestra

1:0:3 **Fall, Spring**

* Prerequisite(s): Audition

Provides the advanced instrumentalist the opportunity to perform traditional and contemporary repertoire for large jazz ensemble. Improvisational and sight-reading skills are emphasized. Requires attendance at all performances. May be repeated as desired.

MUSC 333R

Small Jazz and Commercial Ensembles

1:0:2 **Fall, Spring**

* Prerequisite(s): Audition

Provides the advanced instrumentalist and vocalist the opportunity to perform in small ensembles specializing in jazz and other commercial styles including, pop, rock, country, funk, reggae, hip hop, etc. Emphasizes improvisation, rhythmic skills, and knowledge of harmony. Requires attendance at all performances. May be repeated as desired.

MUSC 334R

Pep Band

1:0:2 **Fall, Spring**

* Prerequisite(s): Audition

Provides opportunities to perform band literature for athletic events, including home games, playoffs and championships. Requires participation at all rehearsals and assigned games. May be repeated as desired.

MUSC 3400

Music in the Elementary School

2:2:0 **XF**

* Prerequisite(s): University Advanced Standing

For Elementary Education students and other interested students and community members. Introduces concepts and techniques of music education applicable to the elementary school classroom. Teaches concepts and skills through a combination of readings and lectures. Applies vocal and instrumental basics and class projects. Addresses the Utah State Core Curriculum for music for the elementary school. Completion of a second course is required to satisfy the fine arts requirement (see Graduation section of catalog).

MUSC 3410
Elementary Music Methods I
2:2:0 On Sufficient Demand
 * Prerequisite(s): MUSC 2110 and University Advanced Standing

Teaches the sequence, tools, materials, and philosophy of teaching musical concepts to children in grades K-3. Develops skill on classroom instruments.

MUSC 3411
Elementary Music Methods II
2:2:0 On Sufficient Demand
 * Prerequisite(s): MUSC 2110, MUSC 3410, and University Advanced Standing

Teaches the sequence, tools, materials, and philosophy of teaching musical concepts to children in grades 4-6. Develops skill on classroom instruments.

MUSC 3412
Music Career Development
3:3:0 Spring
 * Prerequisite(s): MUSC 2110 and University Advanced Standing

Examines various career options in the music industry. Covers the identification of audience and client and the process of supplying products appropriate to their needs. Includes advertising, client relations, social media, and creating an online presence. Explores the development of funding sources for music projects and basic music accounting practices. Covers sync fees, performance rights organizations (PRO), and multiple streams of income through royalties. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 3415
Instrumental Pedagogy and Literature I
2:2:0 Fall
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): MUSC 2110

Provides students the opportunity to study the pedagogy and literature of their major instrument. Examines various pedagogical approaches and incorporates in-class teaching demonstrations. Includes the selection of appropriate solo and chamber literature for beginning and intermediate levels.

MUSC 3416
Instrumental Pedagogy and Literature II
2:2:0 Spring
 * Prerequisite(s): MUSC 3415 and University Advanced Standing

Provides students the opportunity to study the pedagogy and literature of their major instrument. Examines various pedagogical approaches and incorporates in-class teaching demonstrations. Includes the selection of appropriate solo and chamber literature for advanced levels.

MUSC 3450
Music History and Literature I
3:3:0 Fall
 * Prerequisite(s): MUSC 3120 and University Advanced Standing

Covers the history of European music from ancient times to the Classic era. Surveys periods, genres, composers, works, performance practice, and sources. Emphasizes musical meaning, style, and interpretation.

MUSC 3451
Music History and Literature II
3:3:0 Spring
 * Prerequisite(s): MUSC 3450 and University Advanced Standing

Covers the history of European-sphere music from the Classic era to the present. Surveys periods, genres, composers, works, performance practice and sources. Emphasizes musical meaning, style and interpretation.

MUSC 360R
Commercial Music Private Lessons
1:1:0 Fall, Spring, Summer
 * Prerequisite(s): MUSC 250R and University Advanced Standing

Offers twelve 30-minute private lessons. Focuses on the individual needs of the student, developing skills and techniques in commercial composition, production, or improvisation. May be repeated as desired. Course fee of \$270 for private instruction applies.

MUSC 3620
Percussion Techniques I
1:1:1 Fall
 * Prerequisite(s) or Corequisite(s): MUSC 2110

Prepares music education majors in the pedagogy and methods of percussion instruments for beginning players.

MUSC 3621
Percussion Techniques II
1:1:1 On Sufficient Demand
 * Prerequisite(s): MUSC 3620 and University Advanced Standing

Prepares music education majors in the pedagogy and methods of percussion instruments for intermediate players in secondary school programs.

MUSC 3630
Vocal Techniques
1:1:1 On Sufficient Demand
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): MUSC 2110

Provides an introduction to vocal pedagogy and basic choral concepts for music education majors. Focuses on principles of healthy vocal production. Covers vocal anatomy, breath energy, phonation, resonance, articulation, registration, warm-ups, basic diction, ensemble singing, and working with adolescent voices. Involves solo and ensemble singing, rehearsal conducting, and private teacher observations.

MUSC 3649
String Techniques I
1:1:1 Fall
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): MUSC 2110

Studies the pedagogical process of a beginning and intermediate string class. Covers strategies for the recruitment and organization of an orchestra program. Discusses the selection and maintenance of string instruments, accessories and supplies.

MUSC 3650
String Techniques II
1:1:1 On Sufficient Demand
 Teaches basic performing skills on the clarinet and saxophone including tone production, articulation, registers and fingerings. Studies pedagogical processes, methods and literature. Covers strategies for the recruitment and organization of a band program. Discusses instrument selection and maintenance, reeds and accessories.

MUSC 3659
Woodwind Techniques I
1:1:1 Fall
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): MUSC 2110

Teaches basic performing skills on the clarinet and saxophone including tone production, articulation, registers and fingerings. Studies pedagogical processes, methods and literature. Covers strategies for the recruitment and organization of a band program. Discusses instrument selection and maintenance, reeds and accessories.

MUSC 3660
Woodwind Techniques II
1:1:1 On Sufficient Demand
 * Prerequisite(s): MUSC 3659 and University Advanced Standing

Provides performance instruction on the flute, oboe, and bassoon. Studies pedagogical processes and choices for method books and band literature. Covers the planning and execution of effective rehearsals. Discusses instrument selection and maintenance, reeds and accessories.

MUSC 3679
Brass Techniques I
1:1:1 Fall
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): MUSC 2110

Teaches basic performing skills on the trumpet and French horn. Studies the assembly, mechanism, embouchure formation, tone, breath control, intonation and fingerings of each instrument. Discusses brand selection, accessories, equipment supplies and instrument care. Covers pedagogical processes, repertoire and method resources.

MUSC 3680
Brass Techniques II
1:1:1 On Sufficient Demand
 * Prerequisite(s): MUSC 3679 and University Advanced Standing

Provides basic performance instruction on the trombone, euphonium and tuba. Studies the assembly, mechanism, embouchure formation, tone, breath control, intonation and fingerings of each instrument. Covers rehearsal strategies and literature selection. Discusses choices for instrument brands, accessories and supplies.

MUSC 3690
Jazz Practicum
1:1:1 On Sufficient Demand
 * Prerequisite(s): (MUSC 3659 or MUSC 3679) and University Advanced Standing

Provides a practical study of basic jazz performance, improvisation, transcription, styles, history and rehearsal techniques. Prepares students to teach jazz.

Course Descriptions

MUSC 370R

Symphony Orchestra

1:0:4 Fall, Spring

* Prerequisite(s): Audition

Provides opportunity to improve musical performance skills by participating in orchestra. Studies and performs serious concert literature from all periods of music history. Requires attendance at all concerts, rehearsals, tours and acquisition of performance attire. May be repeated as desired.

MUSC 372R

Chamber Orchestra

1:0:2 Fall

* Prerequisite(s): Audition

Provides smaller orchestra experience. Improves individual and ensemble performance skills. Studies and performs serious concert literature from all periods of music history. Attendance is expected at all concerts, rehearsals, and tours. Audition is required. May be repeated as desired.

MUSC 373R

Advanced Small Ensembles

1:0:2 Fall, Spring

* Prerequisite(s): Instructor Approval

Provides opportunities for performing in small groups of select musicians. Studies music of various styles and periods. Some public performances will be required. May be repeated as desired.

MUSC 379R

Studio Recording Workshop

1:0:2 Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): MUSC 1400

Provides performance opportunities in a contemporary recording studio environment. Examines the interrelating roles of performer, engineer, and producer. May be repeated for a maximum of 6 credits toward graduation. Lab access fee of \$10 for computers applies. Software fee of \$140 for computers applies.

MUSC 3800

Junior Recital

1:0:3 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Corequisite(s): MUSC 450R or MUSC 455R

Provides a solo recital experience for students during their junior year.

MUSC 410R

Music Composition

2:2:0 Fall

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): MUSC 2110

Builds on compositional techniques for music majors. Explores historical and contemporary techniques, repertoire, and concepts with an emphasis on creating and performing an original piece. Provides opportunities for students to explore their own creative process and demonstrate their knowledge through composition projects. May be repeated for a maximum of 8 credits toward graduation. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 4130

Scoring and Arranging

2:2:0 Fall

* Prerequisite(s): MUSC 3120 and University Advanced Standing

Studies techniques of scoring and arranging music for orchestra, band, choir, and small ensembles. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 4140

Counterpoint

3:3:0 On Sufficient Demand

* Prerequisite(s): MUSC 3120 and University Advanced Standing

Teaches the techniques of combining melodic voices in a historical context. Covers concepts from the entire span of music history since the emergence of polyphony around the twelfth century. Emphasizes the disciplines of sixteenth- and eighteenth-century counterpoint. Software fee of \$15 applies. Course Lab fee of \$10 for computers applies.

MUSC 4150

Advanced Choral Conducting

2:2:0 Spring

* Prerequisite(s): MUSC 2350 and University Advanced Standing

Develops advanced baton techniques, score preparation and basic rehearsal procedures for choral organizations. Explores advanced tools of coordination and musicianship, and covers communication and score analysis.

MUSC 420R

Film Scoring

2:2:0 Spring

* Prerequisite(s): MUSC 410R and University Advanced Standing

Covers theoretical concepts, creative and collaborative methods, and practical experiences in the process of creating music for film and video. Includes elements of film score history, dramatic structure, collaboration, spotting, musical structure and form (including leitmotif and variation), timing, temp tracks, digital mockups and production demos, recording and mixing film music, copyright and contractual concerns, developing a portfolio of musical scoring work. Activities include lecture/discussion of theoretical principles, analysis of masterworks in the film music genre, and production of a student-scored film/video clip. May be repeated as desired. Software fee of \$140 applies. Course Lab fee of \$10 for computers applies.

MUSC 4220

Choral Literature and Methods

2:2:1 Fall

* Prerequisite(s): MUSC 2350 and University Advanced Standing

Studies the process of developing a successful school choral program. Analyzes the quality of choral literature and its suitability for various skill levels. Studies effective rehearsal management strategies. Examines current resources and systems for choral program administration. Develops skills in singing, score analysis, conducting techniques, section leading, and microteaching.

MUSC 4221

Advanced Choral Literature and Methods

2:2:1 Spring

* Prerequisite(s): MUSC 4220 and University Advanced Standing

Provides further examination of the processes involved in developing a successful school choral program. Studies the history and performance practices of stylistic periods of choral literature. Provides opportunities to plan and lead choral ensemble rehearsals. Includes preparations of materials for professional portfolios. Covers strategies for long-term professional development.

MUSC 423R

Opera Workshop

1:0:4 Fall, Spring

* Corequisite(s): MUSC 250R or MUSC 450R

* Prerequisite(s) or Corequisite(s): MUSC 455R

Provides experience performing scenes from opera. Explores the techniques of dramatic characterization and stage craft. Addresses the process of character analysis. Discusses the control of performance anxiety. Practices the basic techniques of stage makeup and costuming. Develops advanced-level singing proficiency. May be repeated for a maximum of 12 credits toward graduation. Course Lab fee of \$100 for support applies.

MUSC 4240

Vocal Pedagogy

2:2:0 Fall

* Prerequisite(s): MUSC 2002 and University Advanced Standing

Provides instruction centered on the art and science of vocalization as it pertains to teaching in a studio scenario and in personal study. Presents varied teaching methods for vocal instruction in group and one-to-one situations. Provides students the opportunity to teach and receive immediate peer and instructor evaluations on the efficacy of their teaching style and lesson content.

MUSC 4340

Marching Band Techniques

1:1:1 Fall

* Prerequisite(s): University Advanced Standing

Teaches organization and training of marching bands in public schools. Emphasizes precision marching and traditional formation techniques. Covers elements of instrumentation, charting, drill techniques and parade marching. Software fee of \$15 applies Course Lab fee of \$10 for computers applies.

MUSC 4360

Wind Band Literature and Methods

2:2:1 Spring

* Prerequisite(s): MUSC 2350 and University Advanced Standing

Studies literature, methodology, and administration of school band program. Includes field work in the public schools.

MUSC 4370

Orchestra Literature and Methods

2:2:1 Spring

* Prerequisite(s): MUSC 2350 and University Advanced Standing

Studies literature, methodology, and administration of a school orchestra program. Includes field work in the public schools.

MUSC 450R**Advanced Private Lessons for Music****Majors****1:1:0** Fall, Spring, Summer

* Prerequisite(s): Sophomore Review required and

University Advanced Standing

* Corequisite(s): MUSC 451R

Offers twelve 60-minute private lessons for music majors. Focuses on the individual needs of the student in developing advanced skills and techniques. Requires participation in weekly performance class. Includes juried evaluations. May be repeated as desired. Course fee of \$443 for support applies.

MUSC 451R**Performance Class****1:1:0** Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Corequisite(s): MUSC 450R or MUSC 455R

Provides advanced performance experience for music majors. Develops an ability to offer and receive constructive criticism. Explores performance-related topics such as practice strategies, performance anxiety, interpretive phrasing, technical mastery, memorization and jury preparation. May be repeated for a maximum of 12 credits toward graduation.

MUSC 455R**Private Lessons for Music Performance****Majors****2:2:0** Fall, Spring, Summer

* Prerequisite(s): BM in Performance major, Sophomore

Review, and University Advanced Standing

* Corequisite(s): MUSC 451R

Offers twelve 60-minute private lessons for music performance majors. Focuses on the individual needs of the student in developing advanced skills and techniques. Requires participation in weekly performance class. Includes recital preparation and juried evaluations. May be repeated as desired. Course fee of \$443 for recital preparation applies.

MUSC 470R**Studio Arranging and Producing****3:3:0** Fall, Spring

* Prerequisite(s): MUSC 2400, MUSC 3120, and

University Advanced Standing

Covers theoretical concepts of arranging and production in the recording studio in various styles and applications. Incorporates practical experience in a working professional studio. Applies principles of orchestration, both traditional and contemporary, in the classroom and studio environment. Emphasizes communication skills with recording artists, musicians and engineers. Covers logistical protocols for scheduling, booking of studios and musicians, studio demeanor and ethics, and working with clients. May be repeated for a maximum of 12 credits towards graduation. Software fee of \$140 applies. Course Lab fee of \$10 for computers applies.

MUSC 4780**Pre-Service Student Teaching****2:2:0**

Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): MUSC 4221, MUSC

4360, or MUSC 4370

Provides placement in a secondary public school setting in one weekly class or ensemble in preparation for the final student teaching experience. Requires score preparation, assistance with sectionals, teaching music literacy concepts and mini lessons, and other work as assigned by the supervisor and cooperating teacher. Includes peer observations in various school settings. Provides formal observations by content faculty.

MUSC 4785**Student Teaching Seminar****2:2:0**

Fall, Spring

* Prerequisite(s): University Advanced Standing

Provides support for the student teaching experience. Includes classroom management, ongoing content mentorship, supervision of conducting and score preparation, faculty and peer feedback, and assistance with senior portfolio. Requires written assignments and off-campus peer observations.

MUSC 4800**Senior Recital****1:0:3**

Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Corequisite(s): MUSC 450R or MUSC 455R R

Provides a solo recital experience for students during their senior year.

MUSC 481R**Internship in Music II****1 to 8:0:5 to 40**

Fall, Spring, Summer

* Prerequisite(s): Departmental Approval and University

Advanced Standing

Provides an opportunity for upper-division students to receive college credit and work in a music-related field. Offers students the opportunity to focus on a specific career path and prepare themselves to enter the profession. Applies academic concepts to actual work experiences. Requires approval of faculty sponsor and completion and acceptance of application. Also requires completion of an orientation, completion of Master Agreement between UVU and employer, completion of goals and tasks as required by academic department, and completion of final evaluation. May be repeated for a total of 8 credits towards graduation. May be graded credit/no credit.

MUSC 490R**Advanced Independent Study****1 to 3:0:3 to 9**

Fall, Spring, Summer

* Prerequisite(s): MUSC 3120 and University Advanced

Standing

Individual projects to be negotiated by student and instructor on a case-by-case basis. May be repeated for a maximum of 12 credits toward graduation.

MUSC 492R**Advanced Topics in Music****1 to 3:1 to 3:0**

Fall, Spring

* Prerequisite(s): MUSC 3120, departmental approval,

and University Advanced Standing; Certain topics may

require other prerequisite

Examines advanced topics in music. Examples could include historical, theoretical, or pedagogical topics such as Schenkerian analysis or 16th century counterpoint. May be repeated for a maximum of 9 credits toward graduation. Software fee of \$140 applies. Course Lab fee of \$10 for computers applies.

National Security Studies (NSS)

NSS 2010**Introduction to National Security****3:3:0**

Fall

* Prerequisite(s): ENGL 2010; HIST 1700 or HIST 2700

or POLS 1100 or CJ 1010

Categorizes elements of the national security field. Explores the national security system, focusing on contemporary issues. Analyzes formulation and execution of national security policy through diplomacy, intelligence operations, and military force.

NSS 301R**National Security Area Studies****3:3:0**

Fall

* Prerequisite(s): University Advanced Standing; POLS

1100, HIST 1700, or HIST 2700, or CJ 1010

Examines the national security issues associated with a particular geographic area in the global community. May be repeated for a maximum of 9 credits toward graduation.

NSS 3050**US Intelligence Community****3:3:0**

Spring

* Prerequisite(s): University Advanced Standing

Examines the US Intelligence Community (IC) and its core responsibilities and processes. Assesses the IC's two-fold role to support policy makers and operations, the customer-driven intelligence production cycle, how national foreign intelligence requirements are generated and prioritized, what activities are authorized and which activities are prohibited, intelligence oversight by Congress, and privacy concerns. Evaluates the missions, roles, responsibilities, and authorities of the (IC) constituent agencies and assess the IC's intelligence collection disciplines.

NSS 4210**Law of War****3:3:0**

On Sufficient Demand

* Prerequisite(s): University Advanced Standing; POLS

1100, HIST 1700, HIST 2700, or CJ 1010

Examines the law that governs situations of armed conflict, including the history and development of the law. Assesses major contemporary issues in this area of the law, to include detention policy, drone warfare, terrorism as a tactic of war, and preemptive force.

Course Descriptions

NSS 4250

National Security Career Strategies

3:3:0 On Sufficient Demand

* Prerequisite(s): NSS 2010; University Advanced Standing

Emphasizes the development of effective techniques for successfully locating, applying for and securing employment as well as advancing in a National Security-related career path. Includes industry and job research, demonstration, role play, development of writing materials, and application exercises. Provides preparation for internship and career entry experience.

NSS 4600

National Security Law

3:3:0 Spring

* Prerequisite(s): University Advanced Standing; POLS 1100, HIST 1700, HIST 2700, or CJ 1010

Evaluates the distribution of national security powers amongst the three branches of government. Reviews the laws and policies that govern the legality of war, military operations in wartime, intelligence collection, protection of national security information, foreign intelligence surveillance, covert action, special military operations, offensive counterterrorism operations, detention and interrogation of terrorism suspects, and other current issues in the national security area.

NSS 475R

Current Topics in National Security

3:3:0 Spring

* Prerequisite(s): University Advanced Standing; POLS 1100, HIST 1700, HIST 2700, or CJ 1010

Presents selected topics in National Security and will vary each semester. Requires a special project related to the area of study. May be repeated with different topic areas for a maximum of 9 credits toward graduation.

NSS 4800

Intelligence Analysis and Tradecraft

3:3:0 Fall

* Prerequisite(s): University Advanced Standing

Appraises structured analytic techniques commonly embraced as sound tradecraft within the Intelligence Community (IC) and applies these techniques in the context of actual intelligence cases. Applies the structured analytic techniques of decomposition and visualization, idea generation, scenarios and indicators, hypothesis generation and testing, assessment of cause and effect, challenge analysis, and decision support. Evaluates IC analytic standards and discuss ethical considerations.

NSS 481R

National Security Internship

1 to 9:1 to 9:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

Provides academic credit for work for students in a paying or non-paying (volunteer) job for a national security employer or other approved related situation. Emphasizes successful work experience with emphasis on identifying and solving problems. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

NSS 491R

Directed Readings and Special Projects in National Security

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Offers independent study as directed in reading, individual projects, etc., at the discretion and approval of the department chair. May be repeated for a maximum of 9 credits.

NSS 6500

U.S. National Security Policy and Strategy

3:3:0 Spring

Examines how the United States formulates national security policy and strategy. Analyzes conceptual foundations, organizational structures and functions, decision-making processes, and priority issues in US national security. Assesses the role and authorities of the President and Executive Branch, congressional oversight, national security policy development and implementation, the implementation and limits of national power, the role of intelligence, the relevant legal frameworks, and specific national security challenges.

NSS 6600

State Responses to Terrorism: Counterterrorism in a Collaborative Environment

3:3:0 Spring

Outlines how federal, state, and local law enforcement have developed a standardized information sharing process in an effort to mitigate terror attacks. Analyzes state fusion centers, intelligence-led policing, community engagement, and multi-agency emergency response plans. Utilizes practical lecture, table top exercise, and case studies, to demonstrate how states act independently to prevent, thwart, and mitigate acts of terror stemming from domestic terrorists, transnational terrorist organizations, and inspired lone offenders.

Nursing (NURS)

NURS 2300

Nursing Health Assessment

2:2:0 Fall, Spring

* Prerequisite(s): Acceptance into ASN/BS Nursing program

* Corequisite(s): NURS 2305

* Prerequisite(s) or Corequisite(s): NURS 2320

Introduces the nursing student to health history interview and physical assessment techniques for patients across the lifespan. Uses a holistic approach in identifying health care needs of the patient within the context of the nursing process.

NURS 2305

Nursing Health Assessment Laboratory

1:0:3 Fall, Spring

* Prerequisite(s): Acceptance into ASN/BS Nursing program

* Corequisite(s): NURS 2300

* Prerequisite(s) or Corequisite(s): NURS 2320

Provides laboratory and clinical opportunities to perform health assessment skills and techniques for individuals across the lifespan. Applies theoretical principles gained from concurrent courses. Course Lab fee of \$55 applies.

NURS 2310

Nursing Pharmacology

3:3:0 Fall, Spring

* Prerequisite(s): CHEM 1110 and ZOO 2320

* Prerequisite(s) or Corequisite(s): ZOO 2420

Examines general principles of drug therapy, including medication administration, drug action in the body, and dosage calculations. Focuses on major drug categories and prototypes in each category. Serves as a basis for understanding drug therapy as an integral part of health care.

NURS 2320

Nursing Interventions

2:2:0 Fall, Spring

* Prerequisite(s): Acceptance into ASN/BS Nursing program

* Corequisite(s): NURS 2325

* Prerequisite(s) or Corequisite(s): NURS 2300

Introduces nursing interventions to promote and enhance comfort, hygiene, nutrition, elimination, sleep and rest, activity and mobility for persons with self-care deficits, or facilitating self-care. Provides laboratory and clinical opportunities to apply nursing interventions. Emphasizes nursing interventions based on patient assessment as well as safety risk reduction. Course fee of \$68 for online assessment & review tools applies.

NURS 2325

Nursing Interventions Laboratory

2:0:6 Fall, Spring

* Prerequisite(s): Acceptance into ASN/BS Nursing program

* Corequisite(s): NURS 2320

* Prerequisite(s) or Corequisite(s): NURS 2300

Provides laboratory and clinical opportunities to perform nursing interventions to promote and enhance comfort, hygiene, nutrition, elimination, sleep and rest, activity and mobility for persons with self-care deficits, or facilitating self-care. Emphasizes nursing interventions based on patient assessment as well as safety risk reduction. Course Lab fee of \$112 applies.

NURS 2410

Nursing Care of Adults with Common Disorders

2:2:0 Fall, Spring

* Prerequisite(s): NURS 2320

* Corequisite(s): NURS 2415

* Prerequisite(s) or Corequisite(s): NURS 2420

Explores application of the nursing process with adults experiencing common physiological problems. Integrates concepts of health assessment, health promotion, pharmacology, and clinical reasoning in planning and providing a holistic, collaborative approach to client care across the lifespan. Course fee of \$68 for online assessment & review tools applies.

NURS 2415**Nursing Care of Adults with Common Disorders Clinical****2:0:6** **Fall, Spring**

- * Prerequisite(s): NURS 2320
- * Corequisite(s): NURS 2410
- * Prerequisite(s) or Corequisite(s): NURS 2420

Applies the nursing process with adults experiencing common physiological problems in a variety of clinical settings, including laboratory simulation, inpatient medical-surgical and peri-operative units. Integrates concepts of health assessment, health promotion, pharmacology, and clinical reasoning in planning and providing a holistic, collaborative approach to client care across the lifespan. Course Lab fee of \$66 applies.

NURS 2420**Nursing Care of the Aging Population****2:2:0** **Fall, Spring**

- * Prerequisite(s): NURS 2300, NURS 2310
- * Corequisite(s): NURS 2410

Introduces the aging process and normal changes with aging. Identifies special needs of older adults and nursing interventions to meet those needs. Includes care of older adults with chronic illnesses and end-of-life care while preparing nurses to meet the needs of the growing elderly population.

NURS 2430**Mental Health Nursing****2:2:0** **Fall, Spring**

- * Prerequisite(s): NURS 2300, NURS 2310
- * Corequisite(s): NURS 2435

Examines neurobiological and psychosocial aspects of disorders of cognition, mood and behavior. Explores trends in nursing and multidisciplinary care of persons with psychiatric disorders. Focuses on nursing assessment, diagnosis and intervention for individuals with mental health needs.

NURS 2435**Mental Health Nursing Clinical****1:0:3** **Fall, Spring**

- * Prerequisite(s): NURS 2300, NURS 2310, NURS 2320
- * Corequisite(s): NURS 2430

Application of nursing assessment, diagnosis and intervention for individuals with psychiatric disorders, through laboratory and clinical practicum in mental health settings.

NURS 3300**Health Promotion and Health Teaching in Nursing****2:2:0** **Fall, Spring**

- * Prerequisite(s): NURS 2320 and University Advanced Standing

Introduces health and wellness, and incorporates aspects of healthy living. Creates a foundation on which students can promote healthy lifestyles in clients of all ages. Introduces the Healthy People initiative. Considers application of primary, secondary, and tertiary prevention levels, effective learning/teaching, change theory, and therapeutic communication. Examines use of complementary and alternative therapies. Analyzes service learning and its potential impact related to health promotion in various settings.

NURS 3310**Nursing Care of Child Bearing Families On Sufficient Demand****2:2:0**

- * Prerequisite(s): NURS 2410 and University Advanced Standing

- * Corequisite(s): NURS 3315

Builds on concepts learned in previous and concurrent courses to provide nursing care to families in the reproductive years. Emphasizes the child-bearing family, including physiological and psychosocial adaptation to pregnancy, birth, and the immediate newborn period, and disorders of the reproductive patient. Integrates nursing process in providing a holistic, collaborative approach to clients and families in secondary and tertiary settings such as physician offices, labor and delivery, mother/baby, clinical simulation, and others.

NURS 3315**Nursing Care of Child Bearing Families Clinical****1:0:3** **On Sufficient Demand**

- * Prerequisite(s): NURS 2410 and University Advanced Standing

- * Corequisite(s): NURS 3310

Provides clinical opportunities to provide nursing care to families in the reproductive years. Emphasizes the child-bearing family, including physiological and psychosocial adaptation to pregnancy, birth, and the immediate newborn period, and disorders of the reproductive patient. Integrates nursing process in providing a holistic, collaborative approach to clients and families in secondary and tertiary settings such as physician offices, labor and delivery, mother/baby, clinical simulation, and others. Course Lab fee of \$48 applies.

NURS 3320**Nursing Care of Child Rearing Families****2:2:0** **Fall**

- * Prerequisite(s): NURS 3310, NURS 3315, and University Advanced Standing

- * Corequisite(s): NURS 3325

Integrates previously mastered principles of medical surgical nursing and normal child growth and development with the knowledge and skill to promote, maintain, and restore child health within the sociocultural context of the family. Explores application of the nursing process to safely meet common health problems of children from infancy through adolescence in clinical settings ranging from the laboratory to intensive care.

NURS 3325**Nursing Care of Child Rearing Families Clinical****1:0:3** **Fall**

- * Prerequisite(s): NURS 3310, NURS 3315, and University Advanced Standing

- * Corequisite(s): NURS 3320

Safely applies the nursing process to meet health problems of children from infancy through adolescence in clinical settings ranging from the laboratory to intensive care. Integrates previously mastered principles of medical surgical nursing and normal child growth and development with the knowledge and skill to promote, maintain, and restore child health within the sociocultural context of the family. Course Lab fee of \$39 applies.

NURS 3330**Nursing Care of Persons with Complex Disorders****2:2:0** **Fall, Spring**

- * Prerequisite(s): NURS 2410 and University Advanced Standing

- * Corequisite(s): NURS 3335

- * Prerequisite(s) or Corequisite(s): ZOO 4400 highly recommended

Builds on concepts learned in previous nursing courses to provide care for clients with complex health disorders. Emphasizes pathophysiological mechanisms of disease, pharmacodynamics and monitoring and interventions required in the management of clients in acute and unstable conditions. Integrates the nursing process in a collaborative approach to clients and their families in secondary and tertiary settings such as emergency centers, telemetry, intermediate and intensive care units as well as clinical simulations. Course fee of \$68 for online assessment & review tools applies.

NURS 3335**Nursing Care of Persons with Complex Disorders Clinical****2:0:6** **Fall, Spring**

- * Prerequisite(s): NURS 2410 and University Advanced Standing

- * Corequisite(s): NURS 3330

- * Prerequisite(s) or Corequisite(s): ZOO 4400 highly recommended

Provides clinical opportunities to provide care for clients with complex health disorders. Emphasizes pathophysiological mechanisms of disease, pharmacodynamics and monitoring and interventions required in the management of clients in acute and unstable conditions. Integrates the nursing process in a collaborative approach to clients and their families in secondary and tertiary settings such as emergency centers, telemetry, intermediate and intensive care units as well as clinical simulations. Course Lab fee of \$44 applies.

NURS 3340**Nursing Care of Women Children and Developing Families****3:3:0** **Fall, Spring**

- * Prerequisite(s): NURS 2410 and University Advanced Standing

- * Corequisite(s): NURS 3345

Explores application of the nursing process to address health issues of women, children and developing families. Emphasizes safety and quality of nursing care.

NURS 3345**Nursing Care of Women Children and Developing Families Clinical****1:0:3** **Fall, Spring**

- * Prerequisite(s): NURS 2415 and University Advanced Standing

- * Corequisite(s): NURS 3340

Provides clinical and/or laboratory opportunities to apply the nursing process to address health issues of women, children and developing families.

Course Descriptions

NURS 3400

Patient Care Coordination and Management 2:2:0 Fall, Spring

* Prerequisite(s): NURS 3330, NURS 3335, and University Advanced Standing
* Corequisite(s): NURS 3405

Focuses on the core roles of the nurse as a provider of care, manager of care and member of the profession. Incorporates aspects of delegation, prioritization, time management in the workplace, communication, and group dynamics. Encompasses working in a clinical site with a preceptor. Presents activities needed for professional licensing and employment. Course fee of \$68 for online assessment & review tools applies.

NURS 3405

Patient Care Coordination and Management Preceptorship 2:0:6 Fall, Spring

* Prerequisite(s): NURS 3330, NURS 3335, and University Advanced Standing
* Corequisite(s): NURS 3400

Encompasses working in a clinical site with a preceptor and clinical nursing participation in coordinating and managing the care of a small group of patients. Focuses on the core roles of the nurse as a provider of care, manager of care and member of the profession. Incorporates aspects of delegation, prioritization, time management in the workplace, communication, and group dynamics. Course Lab fee of \$30 applies.

NURS 3420

Mentoring in Nursing 1:1:0 Fall, Spring

* Prerequisite(s): NURS 2320 and University Advanced Standing

Provides an opportunity for students to develop personal leadership and mentoring skills as they work with other nursing students and/or patients.

NURS 3440

Pharmacology for the Practicing Nurse 2:2:0 Fall, Spring

* Prerequisite(s): NURS 3330 and University Advanced Standing

Explores in depth the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of medications and complementary and integrative health therapies. Emphasizes teaching patients about pharmacotherapeutics.

NURS 4120

Rapid Response Concepts Across the Lifespan 2:2:0 Fall

* Prerequisite(s): Completion of an Associate degree in nursing.

Prepares registered nurses to respond to, stabilize and transport adult and pediatric patients experiencing life threatening emergencies in hospital and prehospital settings. Enhances skills in the diagnosis and treatment of patients requiring care by a rapid response team, through didactic instruction and active participation in simulated cases. Course Lab fee of \$50 applies

NURS 4130

Critical Care in Nursing 2:2:0 Spring

* Prerequisite(s): NURS 3330 and University Advanced Standing

Expands upon nursing care of individuals with complex disorders. Focuses on nursing in the critical care setting and includes specialized topics such as: nursing assessment, equipment, diagnostic tests, medication administration, ECG monitoring and standard nursing care of the client with an acute illness.

NURS 4210

Concepts in Child Bearing 2:2:0 Fall

* Prerequisite(s): NURS 3310 and University Advanced Standing

Introduces the student to special concepts related to the child bearing family, including legal and ethical questions that relate to childbearing. Discusses local and global issues in childbearing.

NURS 4220

Advanced Pediatrics 3:3:0 Spring

* Prerequisite(s): NURS 3320 and University Advanced Standing

Applies the nursing process to provide family centered nursing care to hospitalized children from birth through adolescence. Explores and examines sociocultural, economic, developmental, emotional and physiologic factors which influence ill newborns or children and their families.

NURS 4230

Palliative Care in Nursing 3:3:0 Fall, Spring

* Prerequisite(s): NURS 2410 and University Advanced Standing

Addresses nine critical aspects of palliative care. Designed to help the student understand his/her role as a member of the interdisciplinary team in providing quality care. Presents basic principles of palliative care within a quality of life framework: physical, psychological, social, and spiritual well-being.

NURS 4240

Promoting Active Senior Lifestyles 2:1:3

* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): NURS 2410, NURS 2415, and NURS 2420

Explores the importance of an active lifestyle throughout the lifespan. Includes service learning experiences in health screening, health promotion teaching, and observation of active senior adults. May require overnight travel.

NURS 4300

Nursing Theory 2:2:0 Spring

* Prerequisite(s): NURS 3300 and University Advanced Standing

Examines various nursing models and theories which influence current nursing practice. Explores essential and interdependent relationships among knowledge, theory, research, and nursing practice. Assists students to conduct a basic assessment of a theory and gain insight into the development of their individual philosophies of nursing practice.

NURS 4320

Nursing in the Community 2:2:0 Fall, Spring, Summer

* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing
* Corequisite(s): NURS 4325

Explores professional nursing practice in community-based and community-focused settings to promote and preserve the health of populations. Emphasizes nursing's impact on behaviors that promote health and reduce risk. Includes principles of family and community assessments, epidemiology, and environmental health.

NURS 4325

Nursing in the Community Clinical 1:0:3 Fall, Spring, Summer

* Prerequisite(s): NURS 3405 and University Advanced Standing
* Corequisite(s): NURS 4320

Applies professional nursing practice in community-based and community-focused settings to promote and preserve the health of populations. Utilizes family and community assessments, epidemiological and environmental health principles to plan and implement health promotion and risk reduction programs within the community.

NURS 4340

Genomics in Nursing and Health 2:2:0 Fall, Spring

* Prerequisite(s): NURS 3300 and University Advanced Standing

Explores the expanding science of genomics and related fields, with emphasis on implications for nursing practice. Examines current and developing genetic and genomic concepts and technologies as they relate to nursing practice and health.

NURS 441G

Nursing in Global Perspective 3:3:0 Fall, Spring

* Prerequisite(s): (NURS 3400 or Departmental approval) and University Advanced Standing

Explores nursing and health care issues in a global perspective to promote culturally competent health care in a diversifying population.

NURS 4500

Nursing Leadership 3:3:0 Fall, Spring

* Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing

Explores leadership concepts and assists students to develop knowledge and skills necessary for leadership in nursing care delivery. Discusses leadership concepts related to nursing roles as providers of care, managers of care and members of the profession.

NURS 4510
Clinical Assessment and Reasoning
2:2:0 **Fall, Spring**
 * Prerequisite(s): NURS 3405 and University Advanced Standing

Develops skills of systematic history taking, clinical examination and clinical reasoning with a focus on people with complex health problems. Explores critical thinking skills and habits as well as nursing process and other clinical judgment models.

NURS 4520
Navigating Health Systems
3:3:0 **Fall, Spring**
 * Prerequisite(s): Acceptance to BSN-completion program and University Advanced Standing

Examines health systems, including the relationships between delivery, access, utilization and patient outcomes. Explores how organizational and economic structures, political, sociocultural, and legal factors influence the design and functions of health services.

NURS 4540
Research and Theory in Nursing Practice
4:4:0 **Fall, Spring**
 * Prerequisite(s): Acceptance to BSN-completion program, completion of a university-level statistics course with a minimum B- or higher and University Advanced Standing

Prepares nurses to find, evaluate and apply evidence as a foundation to propose creative, innovative, or evidence-based solutions to clinical practice problems. Explores selected nursing theories and conceptual models, fundamentals of the research process, and relationships between theory, practice and research.

NURS 4550
Quality and Safety in Nursing
3:3:0 **Fall, Spring**
 * Prerequisite(s): Admission to BSN completion program and University Advanced Standing

Explores quality and safety initiatives in health care. Develops knowledge and skills to create and maintain a culture of quality and safety through monitoring and improving outcomes of care processes.

NURS 481R
Internship in Nursing
1 to 3:0:5 to 15 **Summer**
 * Prerequisite(s): Department Chair approval and University Advanced Standing

Provides supervised, practical, clinical experience for students preparing for careers in Nursing. May be repeated for a maximum of 3 credits toward graduation. May be graded credit/no credit.

NURS 489R
Undergraduate Research in Nursing
1 to 4:0:5 to 20 **On Sufficient Demand**
 * Prerequisite(s): NURS 2410, Department approval, and University Advanced Standing

Provides nursing students the opportunity to conduct research mentored by a faculty member. Students will create a significant intellectual or creative product worthy of publication or presentation. May be repeated for a maximum of 4 credits toward graduation.

NURS 490R
Special Topics in Nursing
1 to 4:1 to 4:0 **Fall, Spring, Summer**
 * Prerequisite(s): NURS 2410 and University Advanced Standing

Explores and examines special topics in nursing. Focuses on special topics of current relevance to the profession of nursing, including societal impacts of topics. Allows nursing students an opportunity to investigate special nursing topics in an in-depth manner. May be repeated for a maximum of 4 credits toward graduation.

NURS 495R
Independent Study in Nursing
1 to 3:0:3 to 9 **Fall, Spring, Summer**
 * Prerequisite(s): NURS 2410, Departmental approval, and University Advanced Standing

Provides students an opportunity to pursue independent study in nursing with a faculty mentor. Includes any combination of literature reviews, original research, participation in departmental and independent projects. Requires preparation and presentation of oral and/or written reports. May be repeated for up to 3 credits toward graduation.

NURS 6000
Leadership Development
2:2:0 **Fall**
 * Prerequisite(s): Admission into the Master of Science in Nursing (MSN) program or Department approval

Provides opportunities for students to examine the role of the graduate nurse leader of the 21st century. Explores requisite skills necessary to lead in complex environments, facilitate improved patient outcomes, and institute quality improvement strategies as they gain an understanding of the interconnectedness of academia and service and apply professional leadership concepts in an interdisciplinary context.

NURS 6050
Nursing Informatics
2:2:0 **Fall**
 * Prerequisite(s): Admission into the MSN program or Department approval.

Introduces nursing informatics theory, evolving practice applications, and skill development. Discusses human factors essential to effective application of nursing informatics in practice. Applies technical skills and processes for the integration of nursing informatics into nursing education and clinical practice settings.

NURS 6200
Advanced Nursing Theory
2:2:0 **Fall**
 * Prerequisite(s): Admission into the MSN program or Department approval

Provides students opportunities to critique and deconstruct extant and emerging theories as they relate to nursing. Explores the relationships among theory, knowledge, science, and evidence-based nursing practice. Facilitates the advancement of nursing practice based on theoretical principles.

NURS 6250
Advanced Nursing Research
3:3:0 **Fall**
 * Prerequisite(s): Admission into the MSN program or Department approval

Prepares students to explore, critique, synthesize, and utilize appropriate research findings to resolve nursing problems and improve outcomes. Incorporates various research designs in the development of nursing practice. Applies research methodology and ethical considerations in development of a research proposal for evidence-based practice.

NURS 6300
Advanced Nursing in Health Systems and Policy
2:2:0 **Spring**
 * Prerequisite(s): Admission into the MSN program or Department approval

Prepares students for their role in becoming change agents within the workforce. Provides students opportunity to critique current healthcare policies, including the effects policies have on current nursing practice, and current health care systems. Identifies changes that need to occur in order to advance nursing and health care in the future.

NURS 6350
Advanced Nursing Pathophysiology/ Pharmacology
3:3:0 **Spring**
 * Prerequisite(s): Admission into the MSN program or Department approval

Focuses on pathophysiological and pharmacological processes across the lifespan and the development of clinical reasoning skills that distinguish the relationships between normal physiology and the specific system alterations produced by injury and disease. Gives particular attention to etiology, pathogenesis, developmental and environmental influences and the clinical manifestations of major health problems with pharmacologic interventions to students enrolled in the nursing education program.

NURS 6450
Advanced Nursing Assessment
3:3:0 **Fall**
 * Prerequisite(s): Admission to the MSN program or departmental approval.

Introduces concepts of advanced health assessment of individuals, families, and communities. Emphasizes application of advanced assessment techniques to perform focused and comprehensive health assessments for patients across the lifespan. Utilizes diagnostic reasoning as the primary means of collecting and analyzing data. Incorporates ethical and cultural factors in care plan development.

NURS 6500
Curriculum Design and Development
3:3:0 **Spring**
 * Prerequisite(s): Admission to the MSN Program or Department approval

Explores curriculum design and development in nursing and incorporates reviewing, restructuring, and developing curricula to meet identified learning needs. Enhances student skill and understanding of curricular processes designed to foster and advance nursing education.

Course Descriptions

NURS 6600

Teaching Nursing in the Classroom Setting
2:2:0 Spring

* Corequisite(s): NURS 6605

Focuses on facilitating learning in classroom settings. Incorporates aspects of the philosophy of adult education and adult learning theory, the teaching process and self-evaluation through reflective thinking/processing.

NURS 6605

Teaching Nursing in the Classroom Setting Practicum
2:0:6 Spring

* Corequisite(s): NURS 6600

Focuses on application of teaching/learning skills in the nursing classroom setting. Incorporates aspects of the philosophy of adult education and adult learning theory, the teaching process and self-evaluation through reflective thinking/processing. Provides practicum experience in the teaching/learning environment.

NURS 6650

Teaching Nursing in the Clinical Setting
2:2:0 Spring

* Prerequisite(s): Admission to MSN program

* Corequisite(s): NURS 6655

Focuses on effective teaching skills for clinical settings. Establishes teacher-learner relationships as being different than in the didactic setting.

NURS 6655

Teaching Nursing in the Clinical Setting Practicum
2:0:6 Spring

* Prerequisite(s): Admission to MSN program

* Corequisite(s): NURS 6650

Focuses on applying effective teaching skills for clinical settings. Establishes teacher-learner relationships as being different than in the didactic setting.

NURS 6700

Evaluation of Learning Outcomes
3:3:0 Fall

* Prerequisite(s): Admission to MSN program

Explores the application of various methods of evaluation, measurement and grading of learning outcomes. Applies assessment techniques to various aspects of nurse education.

NURS 6795

Synthesis of Teaching Practice Practicum
1:0:3 Fall

* Prerequisite(s): Admission to MSN program

Provides the opportunity for individualized synthesis of learning in the nurse educator role in clinical and/or academic settings. Incorporates the standards of practice and core competencies for the nurse educator.

NURS 699R

MSN Project or Thesis
1 to 6:0:3 to 18 Fall, Spring

* Prerequisite(s): NURS 6200 and NURS 6250

Individualized faculty supervision of MSN thesis or project research and/or planning and implementation. May be repeated with department approval.

Nutrition (NUTR)

NUTR 1020

Foundations of Human Nutrition
3:3:0 Fall, Spring, Summer

For students interested in various health care professions. Considers basic principles of human nutrition. Studies factors that influence nutritive requirements and maintenance of nutritional balance. Examines relationships between proper nutrition and social, mental and physical well-being.

NUTR 2020

Nutrition Through the Life Cycle
3:3:0 Fall, Spring

* Prerequisite(s): NUTR 1020

For students interested in various health care professions, particularly professions in nutrition, dietetics, and food sciences. Studies application of nutrition principles to the human life cycle. Includes nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth, development, maturation, and aging.

Physical Education Sports (PES)

PES 1010

Aerobics I
1:5:1.5 Fall, Spring, Summer

A co-ed aerobic dance-exercise class that introduces aerobic conditioning principles designed to develop cardiovascular/respiratory systems, strength, coordination, and flexibility. Teaches choreographed routines involving jogging, dancing, and vigorous exercise set to music.

PES 1011

Aerobics II
1:5:1.5 On Sufficient Demand

A co-ed aerobic dance-exercise class that emphasizes increased knowledge in cardiovascular training, flexibility, and exercise injuries. Students acquire a more strenuous and advanced level of aerobic proficiency through high impact routines set to music.

PES 1050

Powertone
1:5:1.5 Fall, Spring, Summer

For students interested in strength and weight training in a group exercise setting. Utilizes bar/barbells, weights, bands, medi-balls, stability balls, and ropes set to music to present a total muscle conditioning class that is target-specific.

PES 1055

Pilates I CoreMax Training
1:5:1.5 Fall, Spring, Summer

A contemporary approach to Pilates exercise. A total body workout that challenges and optimizes strength, flexibility and endurance. Incorporates FlexBands, BOSU, stability balls, weighted balls, fitness circle and matwork to assist individuals in achieving optimal health and well-being. All exercises are designed to lengthen the body, strengthen the mid-section (core & spine), and improve posture and flexibility.

PES 1057

Power Yoga
1:5:1.5 Fall, Spring, Summer

For students interested in bringing balance to both body and mind. Presents a vigorous and powerful approach using Ashtanga, Anusara, and Hatha Yoga's. Uses flowing progressive postures, meditative awareness, and breath control.

PES 1085

Weight Training I
1:5:1.5 Fall, Spring, Summer

An introductory weight training course which provides the student with the needed information to develop a personalized strength program. Teaches proper lifting techniques. Demonstrates methods to increase muscular strength and endurance. Includes lab. Course fee of \$25 for equipment applies.

PES 1086

Weight Training II
1:5:1.5 Fall, Spring

An individualized intermediate course for students who wish to continue their weight training program. Students will write their own program and set standards of goals that are attainable throughout the training period. Course fee of \$25 for equipment applies.

PES 1087

Weight Training III
1:5:1.5 On Sufficient Demand

* Prerequisite(s): PES 1086 or instructor approval

An advanced course for students and varsity athletes who wish to maintain their individualized weight training program. Students will write their own program and set standards or goals that are attainable throughout the training period.

PES 1097

Fitness for Life
2:2:0 Fall, Spring, Summer

Provides information, tools, and skills to aid students in engaging in an active, healthy lifestyle throughout life. Offers the opportunity to learn about exercise program design, physiological adaptations that underlie fitness, and strategies to maintain an active lifestyle across the lifespan. Features access to high quality exercise facilities. Requires participation in exercise 2-3 days per week outside of the scheduled class activities. Stresses comprehensive principles in health, wellness, physical activity, and fitness assessment. Canvas Course Mats \$66/McGraw applies

PES 1100

Tennis I
1:5:1.5 Fall, Spring, Summer

Covers the basic concepts of the game. Teaches general tennis skills including scoring, forehand, backhand, overhead, volley and net game, and service. Teaches basic tennis rules and strategy techniques. Includes labs, lectures, audio-visual, practice and inter-class participation. Taught on block only.

PES 1101**Tennis II****1:5:1.5****Fall, Spring**

Covers more advanced techniques of tennis. Includes volley and half volley (net game) and technical shots - drop, lob and top spin. Includes labs, lectures, audio-visual, practice and inter-class participation. Covers the more competitive strategies for both singles and doubles. Taught on block only.

PES 1105**Badminton****1:5:1.5****On Sufficient Demand**

Covers basic concepts of badminton. Includes scoring, forehand, backhand, overhead, net game, and service. Studies strategy techniques for both singles and doubles. Uses labs, lectures, audio-visual, practice and inter-class participation. Emphasizes skills, fundamentals, conditioning, and rules of the sport.

PES 1110**Racquetball I****1:5:1.5****Fall, Spring, Summer**

Covers basic fundamentals of racquetball. Teaches the skills, rules and strategies necessary to play and enjoy racquetball. Uses demonstrations and labs, practice and inter-class participation.

PES 1111**Racquetball II****1:5:1.5****Fall, Spring**

Includes advanced skills, rules and strategies in singles, doubles and cut-throat matches. Uses demonstration and labs, practice and inter-class participation. Successful completers should have developed a minimum of Level C skills.

PES 1130**Golf I****1:5:1.5****Fall, Spring, Summer**

A beginning course designed to teach students fundamental techniques, rules and etiquette of the game. Includes instruction on equipment and golf techniques such as grip, stance, and swing. Provides practice rounds leading to in-class tournaments. Uses demonstrations and labs, practice and inter-class participation. Taught on block only.

PES 1131**Golf II****1:5:1.5****Fall, Spring**

Designed to teach students advanced golf skills, rules, and strategies to be used in inter-class tournaments. Evaluates individual golf game strengths and weaknesses. Emphasizes playing according to USGA rules. Taught on block only.

PES 1135**Archery I****1:5:1.5****Spring**

For beginners. Covers basic concepts of archery, both for target shooting and field hunting. Includes use of re-curve and compound bows. Studies the language of archery. Includes laboratory sessions (both indoors and outdoors when weather permits), video instruction, demonstration, and shooting practice. Taught on block only. Course fee of \$20 for support, equipment applies.

PES 1136**Archery II****1:5:1.5****Spring**

Builds upon the basic concepts learned in PES 1135. Covers skills, fundamentals, conditioning, history, and rules of the sport. Includes lecture, labs, demonstration and practice (outdoors when weather permits), and video presentations. Taught on block only. Course fee of \$20 for support, equipment applies.

PES 1145**Bowling I****1:5:1.5****Fall, Spring**

Teaches bowling skills and rules to beginning bowlers. Improves skills of advanced bowlers. Covers scoring procedures. Follows National Bowling Council techniques and rules of American Bowling Congress and Women International Bowling Congress. Includes lecture and participation.

PES 1146**Bowling II****1:5:1.5****On Sufficient Demand**

For those with intermediate bowling skills. Teaches techniques of advanced bowling. Studies rules and strategies. Enhances enjoyment, commitment, and performance of the sport of bowling.

PES 1155**Beginning Fencing****1:5:1.5****On Sufficient Demand**

Teaches fencing strategy, analysis, focus form and precision. Provides aerobic exercise and analyzes fencing style. Completers should be familiar with competition rules, competition officiating and will participate in class tournament at the novice level. Course fee of \$20 for equipment applies.

PES 1200**Basketball I****1:5:1.5****Fall, Spring**

An introductory course designed to teach the basic skills of shooting, passing, ball handling, rebounding, etc. Introduces and practices new skills each class session. Provides regular scrimmage time. Designed for fun and good competition. Includes an exciting class tournament during the course.

PES 1201**Basketball II****1:5:1.5****Fall, Spring**

Teaches advanced skills of shooting, passing, ball handling, rebounding, etc. Stresses fun and competition. Provides regular scrimmage time. Includes an exciting class tournament during the course.

PES 1210**Volleyball I****1:5:1.5****Fall, Spring**

Covers basic concepts of volleyball. Teaches fundamentals and rules of the sport. Introduces new skills such as sprawl and roll. Includes labs, lectures, audio-visual, practice and inter-class participation.

PES 1211**Volleyball II****1:5:1.5****Fall, Spring**

Teaches advanced volleyball skills and team concepts for intermediate volleyball players. Reviews fundamentals and rules. Covers 6-person, 3-person, and 2-person volleyball. Includes labs, lectures, audio-visual, practice and scrimmages.

PES 1212**Volleyball III****1:5:1.5****Fall, Spring**

Teaches volleyball skills and team concepts for advanced players. Briefly reviews fundamentals and rules. Teaches variable-size team competition. Includes labs, lectures, audio-visuals, practice, and scrimmages.

PES 1214**Volleyball Club Team****1:0:2****On Sufficient Demand**

* Prerequisite(s): Instructor approval

For men's volleyball club team. Includes practice and competitive team play. Requires demonstrated advanced skills through try-outs. May be repeated once for credit.

PES 1230**Soccer I****1:5:1.5****On Sufficient Demand**

Covers the basic concepts of soccer including ball control, heading, trapping, passing or dribbling and shooting. Teaches the rules of the game and the strategy of both defense and offense. Includes lecture, media, demonstration and actual game situations. Stresses coordination, balance, agility, speed, endurance, team effort and team play.

PES 1231**Soccer II****1:5:1.5****On Sufficient Demand**

Expands upon and further develops the fundamental skills, techniques, tactics and rules from the Soccer I course. Covers the following topics: defensive soccer tactics, offensive soccer tactics, soccer systems & strategies and conditioning for soccer. Topics will be practiced by using a variety of drills on the field individually and in groups/teams in order to further develop playing performance in real game settings. Examines soccer rules and regulations established by FIFA (Federation Internationale de Football Association) and (United States Soccer Federation) USSF.

PES 1234**Soccer Club Team****1:5:1.5****On Sufficient Demand**

* Prerequisite(s): Instructor approval

For men's and women's soccer team members. Designed for participation in competitive practice and team play. Advanced fundamentals and skills will be drilled. May be repeated once for credit toward graduation.

PES 1254**Lacrosse Club Team****1:5:1.5****On Sufficient Demand**

For men's lacrosse club team. Presents an overview of the history of lacrosse. Includes practice and competitive team play. Requires demonstrated advanced skills through tryouts. May be repeated once for credit.

Course Descriptions

PES 1260 **Ice Hockey** **1:5:1.5**

Fall, Spring

Teaches basic ice hockey skills including: skating (forwards, backwards, crossovers, spins, starts and stops), stick handling, passing, shooting. Practices offensive and defensive positioning, culminating in participating in several hockey games. The majority of the class will take place on the ice with short lectures and outside reading assignments. Course fee of \$60 for support, equipment applies.

PES 1300 **Swimming I** **1:5:1.5**

On Sufficient Demand

For non-swimmers and others interested in improving and maintaining their swimming ability. Students progress at their own pace. Covers breathing techniques, self rescue, floating, back floating, back stroke, breast stroke and front crawl. Students who pass off all of the required skills early will be put on an individualized swimming workout schedule. Individual attention will be given to students as needed. Course fee of \$40 for support applies.

PES 1301 **Swimming II** **1:5:1.5**

On Sufficient Demand

For swimmers who have a working knowledge of the basic strokes and are interested in improving their level of swimming. Provides an individually designed workout schedule for each student. Emphasizes stroke technique work on an individual basis. Course fee of \$40 for support applies.

PES 1315 **Water Aerobics** **1:5:1.5**

On Sufficient Demand

For students interested in an alternative aerobics class. Introduces aerobic conditioning principles designed to develop the cardiovascular - respiratory systems, strength, and coordination. Course fee of \$30 for support, equipment applies.

PES 1405 **Womens Safety Awareness and Self Defense** **1:5:1.5**

Fall, Spring, Summer

A beginning course in women's self-awareness, self-empowerment, and self-defense. Emphasizes environmental awareness and strategies in avoiding dangerous situations. Teaches self-defense techniques that can be used in a crisis situation.

PES 1410 **Introduction to Tai Chi** **1:5:1.5**

Fall, Spring

Introduces to students an ancient martial exercise developed in China. Studies an effortless, low-impact, rhythmical ballet-like exercise that is a superior activity for all age levels. Stresses slow respiration and balanced, relaxed, slow postures. Promotes increased blood circulation, joint and bone strength. Focuses on the Yang style short form solo exercise which may be an effective means of self-defense.

PES 1415 **Survey of Martial Arts** **1:5:1.5**

On Sufficient Demand

Introduces and surveys many of the popular styles of martial arts. Includes brief background of history, learning fundamental kicks, strikes, blocks, holds and other moves/techniques of the following martial arts: Kenpo Karate, Jiu Jitsu, Muay Thai (kick boxing), Tai Chi, and self-defense strategies.

PES 1425 **Jiu Jitsu I** **1:5:1.5**

Fall, Spring

A beginning class in the martial art of Jiu Jitsu with an emphasis on Russian Sambo Jiu Jitsu also known as Combat Jiu Jitsu. Learn the basics of Jiu Jitsu including: grappling, take downs, escapes, arm locks, etc.

PES 1426 **Jiu Jitsu II** **1:5:1.5**

On Sufficient Demand

* Prerequisite(s): PES 1425

An intermediate class in the marital art of Jiu Jitsu. Practices and improves on the basics of Jiu Jitsu including: grappling, take downs, escapes, and arm locks.

PES 1435 **Kenpo Karate I** **1:5:1.5**

Fall, Spring

A beginning course in the martial art of Kenpo Karate. Introduces basic blocks, punches, strikes, and kicks. Emphasizes self defense techniques.

PES 1436 **Kenpo Karate II** **1:5:1.5**

Fall, Spring

* Prerequisite(s): PES 1435 or Yellow Belt rank in Kenpo Karate

An intermediate course in Kenpo Karate for the student with the rank of yellow belt and above. Students work at their own pace and progress toward the next rank in the Kenpo system.

PES 1440 **Aikido** **1:5:1.5**

Fall, Spring

Covers beginning techniques to the art of self-defense. Teaches different holds and locks, using various forms of nonresistance in order to defend and prevent injury from an opponent.

PES 1460 **Kickboxing I** **1:5:1.5**

Fall, Spring

A beginning course in the martial art of kickboxing (Muay Thai). Discusses the history of Muay Thai, ring strategy, and the rules of the ring. Includes leg strengthening, shadow boxing, stretching, punches, elbows, kicks, and knees while contact is made to bags and kicking shields. Teaches self-defense, ring strategy and the requirements to advance to the second level of kickboxing (Muay Thai). Includes intense aerobic workout.

PES 1670 **Ice Skating** **1:5:1.5**

Fall, Spring

Teaches basic ice skating skills including forward and backward skating, turns, stops, crossovers, spins, and jumps. Students will choreograph and perform a developmentally appropriate ice skating program set to music. Course fee of \$60 for support, equipment applies.

PES 200R **Intercollegiate Athletics** **1:5:1.5**

Fall, Spring

* Prerequisite(s): Coach approval

Provides an opportunity to improve strategic and physical performance by working with instructor in chosen activity. May be repeated for 4 credits toward graduation.

PES 201R **Elite Precision Team** **1:5:1.5**

On Sufficient Demand

* Prerequisite(s): Audition required

For students selected to be members of the Elite Precision Team. Includes performances at home basketball games, competition, and the year end showcase. Studies dance styles such as jazz, funk, hip hop, and lyrical. May be repeated once for credit towards graduation.

PES 2050 **Aerobic Instructor Training** **2:2:0**

On Sufficient Demand

For students interested in becoming Certified Aerobic Instructors. Teaches basic concepts of anatomy, physiology, components of fitness, nutrition, and exercise injuries. Emphasizes the use of music, cueing and choreography. Prepares students for the AFAA Certification test.

PES 2200 **Officiating Baseball and Softball** **2:2:0**

On Sufficient Demand

For students wishing to officiate in interscholastic, intramural, and community games. Teaches rules, techniques, problems and procedures in officiating. Gives National Federation or OSA examinations. Introduces softball/baseball National Federation publications such as Rule Book, Case Book, Umpires Manual and Rules (Simplified and Illustrated). Utilizes lecture, media, guest lecturers, practical game situations, etc.

PES 2210 **Officiating Basketball** **2:2:0**

On Sufficient Demand

For students wishing to officiate in intramural and community programs. Teaches rules, officiating, techniques, problems and procedures. Uses lecture, media, guest lecturers and practical game situations. Gives National Federation or OSA examinations. Introduces National Federation publications, such as Rule Book, Case Book, Umpires Manual, and Rules (Simplified and Illustrated).

PES 2220**Officiating Volleyball****2:2:0** **On Sufficient Demand**

Provides students with the necessary skills to officiate the game of volleyball. Teaches both collegiate and high school rules and protocol. Provides students with a working understanding of officiating volleyball, as well as the opportunities for employment, through match observations and practical experience. Prepares students for certification as high school entry level official.

PES 2300**Introduction to Fundamentals of Athletic Coaching****2:2:0** **Fall**

For coaches of youth and other interested community members. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting, and field project and class journals. Stresses motivation, selection, discipline, management, and the technical aspects of coaching.

PES 2400**Sports Injuries****2:2:0** **Fall**

* Prerequisite(s): ZOOL 1090 or Permission of instructor

Prevention and care of fitness, sport, and physical education performance injuries. Emphasizes the responsibilities of the coach/PE teacher related to sport injuries. Examines recognition, cause, prevention and care of sports related injuries to specific body parts. Explores protective equipment, environmental factors, and nutritional considerations. Reviews injuries which occur to specific populations such as adolescent and elderly athletes. Course fee of \$20 for materials applies.

PES 281R**Cooperative Work Experience****2 to 9:1:5 to 40** **On Sufficient Demand**

* Prerequisite(s): Approval of Cooperative Coordinator

Designed for Physical Education and Recreation majors. Provides paid on-the-job experiences in the student's major. Includes student, employer, and coordinator evaluations, on-site work visits, written assignments, and oral presentations. Provides experience in writing and completing individualized work objectives that improve present work performance. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 16 credits toward graduation. May be graded credit/no credit.

PES 3220**Teaching and Coaching Basketball****2:2:0** **On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

Designed for those planning to coach basketball. Overviews methods, teaching techniques, coaching philosophies and practical experiences in both team and individual sports. Includes lecture and demonstration, media presentations, game scouting and field project, and class journals.

PES 3230**Teaching and Coaching Football****2:2:0** **On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

Prepares students for coaching football. Covers basic offensive and defensive philosophy and techniques. Covers organization, equipment, conditioning, and safety.

PES 3240**Teaching and Coaching Volleyball****2:2:0** **On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

For any coach, volleyball player or fan interested in learning more about one of the fastest growing sports in America. Teaches how to coach volleyball. Presents principles that coaches or players can use as a foundation to create their own game. Develops a greater appreciation for volleyball. Stresses the skills, fundamentals, rules, teaching techniques, and coaching strategies behind the sport. Includes labs, videos, and guest lecturers.

PES 3250**Teaching and Coaching Aerobics and Cheerleading****2:2:0** **On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

Teaches basic aerobic principles including concepts of anatomy, physiology, and exercise injuries. Emphasizes choreography, cueing, and the use of music. Also, introduces basic cheerleading skills and methods of teaching kicks, jumps, and tumbling. Presents skills necessary to teach an aerobic class and advise a cheerleading program.

PES 3260**Teaching and Coaching Baseball and Softball****2:2:0** **On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

Designed for those planning to coach baseball or softball. Covers teaching techniques, coaching philosophies and building a program. Includes strategy of team selection and offensive and defensive planning. Studies game skills.

PES 4900**Exercise Science Senior Practicum****3:3:0** **On Sufficient Demand**

* Prerequisite(s): EXSC 3700, EXSC 4000, EXSC 4100, and University Advanced Standing

Emphasizes application of physical activity promotion in a variety of settings. Options include service learning activities, assessing athletes, working in clinical settings that address assessment and exercise prescription in the elderly, cardiac and pulmonary rehabilitation, and outpatient physical therapy.

**Physical Education
Teacher Ed (PETE)****PETE 2110****Fundamental Motor Skill Analysis and Performance****1:0:2** **Fall**

Covers acquisition of fundamental motor skills and movements concepts necessary before advanced motor skills can be effectively taught. Includes motor development concepts, water safety, educational gymnastics, jump rope, and other rhythmic and fundamental skills and concepts. Requires students to assess their own skill performances as well as others' performances. Students with special needs will be encouraged to use appropriate accommodations and/or modifications.

PETE 2120**Fitness for Secondary Physical Educators****1:0:2** **Spring**

* Prerequisite(s): PES 1097

Provides and enhances preservice teachers' abilities to teach Fitness for Life and other health-related fitness concepts and classes for students in grades 6-12. Focuses on evaluation and performance of a variety of developmentally appropriate fitness activities. Trains preservice teachers to develop appropriate lesson plans for secondary students, as well as how to help individual students develop personalized fitness programs.

PETE 2150**Elementary Physical Education SPARK Method****2:2:0** **On Sufficient Demand**

Prepares future classroom teachers, recreation leaders, and interested health and fitness professionals to instruct physical activity classes. Focuses on experiential learning.

PETE 2210**Racket Sport Analysis and Teaching Progressions****1:0:2** **Fall**

Introduces skills, concepts, and rules to help teachers and coaches teach racket sports to youngsters in grades K-12. Focuses on positive transfer of learning between various racket sports, including pickleball, racquetball, badminton, speedminton, and tennis. Explores and implements developmentally appropriate progressions for key skills and strategies, especially those common to all racket sports.

PETE 2220**Target Sport Analysis and Teaching Progressions****1:0:2** **Spring**

Introduces skills, concepts, and rules to help teachers and coaches teach target sports to youngsters in grades K-12. Focuses on helping teachers and coaches use positive transfer to enhance the teaching of skills, strategies, and concepts common to target games and sports. Developmentally appropriate progressions for key skills and strategies will be explored and implemented. Covers the main target sports: archery, bowling, golf, and disc golf. Course Lab fee of \$70 for teaching experience, transportation applies.

Course Descriptions

PETE 2230
Individual Sports Track and Field and Tumbling
1:0:2 **Fall**

* Prerequisite(s): PES 1097

Introduces Track and Field events taught in K-12 schools in Utah. Includes fundamental tumbling skills appropriately taught to K-12 students. Focuses on developmentally appropriate progressions for all learners. Includes hints to enhance positive transfer from a previously learned skill to a new skill, specifically individual sport skills and concepts.

PETE 2310
Invasion Sports Soccer and Team Handball
1:0:2 **Fall**

Introduces skills, concepts, and rules to help teachers and coaches teach soccer and team handball to youngsters in grades K-12. Focuses on helping teachers and coaches use transfer to enhance the teaching of skills and concepts common to all invasion games, as well as to soccer and team handball specifically. Explores and implements developmentally appropriate progressions for key skills and strategies in soccer and team handball.

PETE 2320
Teaching and Analyzing Basketball and Volleyball
1:0:2 **Spring**

Introduces skills, concepts, and rules to help teachers and coaches teach basketball and volleyball to youngsters in grades K-12. Focuses on helping teachers and coaches use positive transfer to enhance student learning. Explores and implements appropriate progressions for key skills and strategies in volleyball and basketball.

PETE 2330
Team Sports for the Physical Educator
1:0:2 **Spring**

Introduces skills, concepts, and rules to team sports appropriate for secondary physical education classes. Sports covered may vary due to weather and current popularity in local schools. Possible sports include: touch rugby, lacrosse, floor hockey, field hockey, flag football, and softball.

PETE 2400
Skill Analysis Capstone
1:5:2 **Fall**

* Prerequisite(s): PETE 2110, PETE 2120, PETE 2210, PETE 2220, PETE 2230, PETE 2310, PETE 2320, PETE 2330

Review and perform skills needed for successful demonstration in physical education classes, with emphasis on any skills not performed successfully in prerequisite courses. Utilizes cues and critical elements for teaching motor skills, movement concepts and strategies covered in prerequisite courses. Analyze skill performances and game strategies. Demonstrate minimum water safety techniques.

PETE 2700
Foundations of Physical Education K-12 Teacher Education
3:3:0 **Fall, Spring**

Introduces the Physical Education K-12 Teacher Education Program. Includes introductions to National Initial Physical Education Teacher Standards, NASPE Standards, Appropriate Practices documents, Professional Associations, History and Philosophy of Physical Education, and Motor Development theories. Prepares students to succeed in the UVU PETE Program.

PETE 289R
Early Undergraduate Research in Physical Education Pedagogy
1 to 4:0:5 to 20 **On Sufficient Demand**

* Prerequisite(s): EXSC 270G and departmental approval of research proposal.

Provides students an early opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is appropriate for Physical Education Pedagogy and worthy of communication to a broader audience. May be repeated for a maximum of 6 credits toward graduation.

PETE 3100
Introduction to Physical Education Pedagogy
3:2:2 **Fall**

* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): PETE 2110 or permission of instructor

Promotes the acquisition and application of effective teaching skills for K-12 physical education, including focus on the National Standards for Physical Education. Includes observations and experiences with K-12 students and faculty. Introduces and works toward meeting the National Initial Physical Education Teacher Education Standards. Introduces content necessary to succeed in all upper-division PETE courses.

PETE 3400
Elementary Classroom Teachers as Movement Educators
2:2:0 **On Sufficient Demand**

* Prerequisite(s): (Admission to professional elementary education program or instructor approval) and University Advanced Standing

For elementary education majors. Presents characteristics of quality physical education programs. Encourages classroom teachers to incorporate physical activity throughout the day. Identifies appropriate practices and activities for teaching movement to all children.

PETE 3450
Special Populations in Physical Education
3:2:3 **Spring**

* Prerequisite(s): PETE 3100, EDSP 3400, and University Advanced Standing

Involves planning and conducting physical education programs for children with special needs. Incorporates hands-on experiences working with individual with special needs. Analyzes of a variety of possible adaptations for individuals with physical, sensory, emotional, and/or intellectual impairments.

PETE 4200
Methods of Teaching Elementary Physical Education
3:2:2 **Spring**

* Prerequisite(s): PETE 3100 and University Advanced Standing
* Corequisite(s): PETE 4210
* Prerequisite(s) or Corequisite(s): PETE 2110, PETE 2120, PETE 2210, PETE 2220, PETE 2230, PETE 2310, PETE 2320, and PETE 2330

Promotes the analysis and development of elementary physical education curricula. Applies curricular concepts through reading, lecture/discussion, movement, self-appraisal, and teaching children. Applies educational principles and techniques necessary for effective teaching in the elementary school. Emphasizes appropriate selection of curriculum content and transition to teaching/learning models. Offers unit and lesson planning and evaluation.

PETE 4210
Elementary Physical Education Field Experience
1:0:3 **Spring**

* Prerequisite(s): University Advanced Standing
* Corequisite(s): PETE 4200

Analyzes elementary physical education curricula through guided observations and controlled teaching experience. Applies curricular concepts through a guided observation, self-appraisal, lesson/unit planning, and teaching children. Course fee of \$78 for practical experience applies.

PETE 4250
Methods of Teaching Secondary Physical Education
3:2:2 **Spring**

* Prerequisite(s): EXSC 3550, PETE 4200, PETE 4210, PETE 4400, acceptance into UVU's Secondary Education program and University Advanced Standing
* Corequisite(s): PETE 4260
* Prerequisite(s) or Corequisite(s): PETE 2400

Applies learning from all previous courses to the successful teaching of secondary physical education. Emphasizes the attainment of all current National Initial Physical Education Standards at the acceptable level or above.

PETE 4260
Secondary Physical Education Field Experience
1:0:3

* Prerequisite(s): University Advanced Standing
* Corequisite(s): PETE 4250

Requires a minimum of 20 hours of assisting and teaching in local secondary schools. Includes at least two opportunities to plan for and teach a class of secondary students.

PETE 4400**Assessment in Physical Education****3:2:2** **Spring**

* Prerequisite(s): (MAT 1000 or higher mathematics course), PETE 2110, PETE 2210, PETE 2230, PETE 2310, PETE 3100, and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): PETE 2120, PETE 2220, PETE 2320, PETE 2330

Examines the need for valid assessment in K-12 physical education programs. Encourages the development and use of a variety of assessment instruments. Inspires the use of assessment to enhance learning and reliably determine student progress toward stated objectives. Urges development of a meaningful grading system that communicates student progress toward course objectives and NASPE standards.

PETE 481R**Physical Education Teacher Education Internship****1 to 4:0:5 to 20** **On Sufficient Demand**

* Prerequisite(s): PES 1097, EXSC 3500, EXSC 3550, PETE 3100, and University Advanced Standing

Encourages students to apply learning in a professional setting. Allows students practical experience working at a physical education teaching or coaching related job. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

PETE 489R**Undergraduate Research in Physical Education Teacher Education****1 to 4:0:5 to 20** **On Sufficient Demand**

* Prerequisite(s): PETE 3100, department approval of research proposal, and University Advanced Standing

Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is appropriate for Physical Education Pedagogy and worthy of communication to a broader audience. May be repeated for a maximum of 8 credits toward graduation.

PETE 4900**Student Teaching Seminar for Physical Education****1:1:0** **Spring**

* Prerequisite(s): Admission to Professional Education Program, successful completion of all professional education and content courses, and University Advanced Standing

* Corequisite(s): EDSC 4850

Supports student teachers during their student teaching experience. Examines each student's teaching experiences. Encourages students to integrate learning from all professional education and content courses. Discusses concerns related to current teaching experiences as well as future experiences. Investigates job seeking criteria and opportunities.

Philosophy (PHIL)**PHIL 1000****Introduction to Philosophy****3:3:0** **Fall, Spring, Summer**

Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental religious, social, political issues through class discussions, lectures, media, and writing projects.

PHIL 100H**Introduction to Philosophy****3:3:0** **Fall, Spring**

* Prerequisite(s): ENGL 1010

Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental religious, social, political issues through class discussions, lectures, media, and writing projects.

PHIL 120R**Philosophy Forum****1:1:0** **Fall, Spring**

Introduces students to the interchange of traditional and contemporary philosophical issues in various venues. Provides enriched learning situations in which students may interact with noted guest scholars. Includes lectures, symposia, field trips, outreach projects, and activities oriented to engage students in philosophical discourse. Meets in conjunction with the Philosophy Club. Grading is on a credit/no credit basis. May be repeated for a total of four credits toward the AA/AS, BA/BS degree.

PHIL 1250**Introduction to Logic and Critical Thinking****3:3:0** **Fall, Spring, Summer**

Introduces fundamental elements of informal logic and applies these to critical thinking. Covers subjects and concepts such as (but not limited to) definition, argument, fallacy, deduction versus induction, validity, soundness, induction, causal reasoning, abductive reasoning, analogical reasoning, and probability.

PHIL 130R**Ethics Forum****1:0:3** **Fall, Spring**

Introduces students to a wide variety of public policy and ethical issues. Provides enriched learning situations in which students are exposed to noted guest scholars and other lecturers. Includes attendance and participation at specified events by engaging in discussion of relevant issues. May be repeated for a maximum of 3 credits toward graduation.

PHIL 1610**Introduction to Western Religions****3:3:0** **Fall, Spring, Summer**

For students majoring in humanities related disciplines and other students interested in the academic study of religion. Presents the comparative study of the history, ritual, "theology," and ethical beliefs of the major western religions including Judaism, Christianity, Islam, Zoroastrianism, Baha'i, and nontraditional religious belief in the western world. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 1620**Introduction to Eastern Religions****3:3:0** **Fall, Spring, Summer**

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Presents the comparative study of the history, ritual, "theology," and ethical beliefs of the major eastern religious traditions including Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, and Shintoism. Explores similarities and differences between them by examining the primary sources and sacred texts along with the unique beliefs and practices of each tradition.

PHIL 2000**Formal Logic I****3:3:0**

Introduces the basic elements of categorical logic as well as formalized propositional logic and formalized first-order quantificational logic. Includes Venn diagrams, proofs, truth tables, tableaux and translations from natural language.

PHIL 2050**Ethics and Values****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): ENGL 1010; ENGL 2010/ENGL 2020 highly recommended

Challenges students to (1) explore and clarify their values; (2) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (3) read, study, research, discuss, and write about difficult ethical issues. Focuses on issues of good vs. evil, justice vs. injustice, equality vs. inequality, and the necessity of defining and examining happiness and values. Engages students in serious reflection on issues of ethics and values as they relate to the students' own lives.

Course Descriptions

PHIL 205G **IH**
Ethics and Values
3:3:0 **Fall, Spring, Summer**
* Prerequisite(s): ENGL 1010; ENGL 2010/ENGL 2020 highly recommended

Challenges students to (1) develop knowledge and recognition of complexities inherent in global and intercultural issues, focusing on their ethical and normative dimensions with an emphasis on issues of ethics and values, (2) develop the ability to interrelate knowledgeably, reflectively, responsibly, and respectfully with a society of increasing intercultural connections, (3) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (4) read, study, research, discuss, and write about difficult ethical issues. Focuses on global and intercultural issues with an emphasis on their ethical and normative dimensions. Engages students in serious reflection on issues of ethics and values as they relate to the students' own lives as knowledgeable, thoughtful, reflective, responsible, and respectful citizens within a society of increasing intercultural connections.

PHIL 205H **IH**
Ethics and Values
3:3:0 **Fall, Spring**
* Prerequisite(s): ENGL 1010; ENGL 2010 or ENGL 2020 highly recommended

Systematically explores the core issues in the realm of ethics and values, especially as they relate to life in the contemporary world. Focuses on good versus evil, justice versus injustice, and the necessity of ideals and equality. Emphasizes reading and writing skills at a more challenging level.

PHIL 2110 **HH**
Ancient Greek Philosophy
3:3:0 **Fall, Spring**
* Prerequisite(s): ENGL 1010 or ENGL 101H or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or permission of the instructor

Provides students with an overview of the history and evolution of philosophical thought from its origins in pre-Socratic philosophers through Aristotle. Reviews the influence of pre-Socratic ideas upon the work of Plato and Aristotle and the impact of Greek philosophy on the evolution of Western philosophy, science, and culture. Requires writing-intensive assignments.

PHIL 2130 **HH**
Medieval Philosophy
3:3:0 **On Sufficient Demand**
* Prerequisite(s): PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or permission of the instructor

Provides an overview of the development of philosophical thought from the Hellenistic period through Thomas Aquinas. Covers the influence of Ancient Greek philosophy and the impact of Christianity upon the evolution of Western philosophical thought. Carefully considers the conceptions of God, nature, the human being, and morality advanced during this period; along with the profound impact Medieval philosophy had on the European Enlightenment and modern philosophy.

PHIL 2150 **HH**
Early Modern Philosophy
3:3:0 **Fall, Spring**
* Prerequisite(s): ENGL 1010 or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or permission of the instructor

Provides an overview of the history and evolution of ideas in Western culture during the modern period of philosophy from Descartes through Kant. Focuses on the dialogue between rationalism and empiricism, and examines Kant's attempt to bridge the gap between these two approaches. Requires writing-intensive assignments.

PHIL 281R
Internship
1 to 6:0:5 to 30 **On Sufficient Demand**
* Prerequisite(s): Permission from departmental chair

Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students' academic and/or professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of six credit hours toward graduation. May be graded credit/no credit.

PHIL 290R
Independent Study
1 to 3:0 to 3:0 to 12 **On Sufficient Demand**

Provides independent study as directed in reading and individual projects. Request must be submitted for approval by the department. Students may do independent study for one, two or three credits with a limit of three credits applying toward graduation with an AA/AS degree.

PHIL 295R
Directed Readings
1 to 3:0 to 3:0 to 12 **On Sufficient Demand**

Provides an opportunity for second year students to do in-depth research within the discipline of Philosophy. Study is limited to advanced work beyond that which can be completed in existing, available classes. A proposal must be submitted and approved by the department prior to enrollment.

PHIL 3000
Formal Logic II
3:3:0 **Spring**
* Prerequisite(s): PHIL 2000 and University Advanced Standing

Continues the exploration of first-order quantificational logic. Includes discussion of multiple quantification, formal syntax and semantics, proofs, truth-tables, tableaux, algebra of classes, set theory, and the metalogical properties of formal systems.

PHIL 3010 (Cross-listed with: COMM 3000)
Media Ethics
3:3:0 **Fall, Spring**
* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Covers ethical issues in media communication. Includes discussions of ethnicity, gender, nationalism, and conflict. Demands development of moral agency. Examines tensions between individual freedoms and social responsibilities. Addresses ethical questions in the context of current struggles within and over corporate and public media.

PHIL 3150
Philosophical Issues in Feminism
3:3:0 **Spring**
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Introduces students to various themes in feminist philosophy. Focuses on the concepts of sex and gender, including such issues as the nature, explanatory import and normative implications of biological sex differences, the sex/gender distinction, the idea of gender as a social construct, the structure and impact of gender oppression and the nature and value of the norms of femininity and masculinity.

PHIL 3160
Gender Values Knowledge and Reality
3:3:0 **On Sufficient Demand**
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Examines the impact of gender on specific areas of philosophy including, but not limited to, aesthetics, ethics, social and political philosophy, epistemology, metaphysics, philosophy of religion, philosophy of science, philosophy of language and the history of philosophy. Examines the meaning of gender with an emphasis on the diversity of experience across varying gender roles.

PHIL 3200
Metaphysics
3:3:0 **Fall**
* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Acquaints the student with competing abstract philosophical problems concerning the general nature and structure of reality. Examines the history of and problems of metaphysics including, but not limited to: personal identity, causation, causal determinism, the nature of universals, anti-realism, realism, change, substance and essence, space and time, and philosophy of mind.

PHIL 3300
Epistemology
3:3:0 **Spring**
* Prerequisite(s): (PHIL 1000 or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Explores diverse theories of knowledge from within the Western tradition. Includes concepts of truth and falsity, skepticism, justification, identity, and intentionality. Discusses empiricism, rationalism and twentieth-century Philosophy of Mind.

PHIL 3400

Philosophy of Science

3:3:0 On Sufficient Demand

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Explores fundamental issues in the philosophy of science. Includes the structure of the scientific method, scientific explanation, and the epistemological status of scientific laws and theories.

PHIL 3450

Philosophy of Childhood

3:3:0 On Sufficient Demand

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Examines philosophical theories and models of childhood, their implication on contemporary conceptions, controversial social, philosophical, legal, educational, and political issues pertaining to childhood, and the capacity of children to engage in philosophical dialogue.

PHIL 3460

The Ethics of Human/Animal Relationships

3:3:0 On Sufficient Demand

* Prerequisite(s): (PHIL 2050 or PHIL 205G or PHIL 205H or PHIL 1000 or PHIL 100H) and University Advanced Standing

Introduces a comprehensive philosophical and academic investigation of the relationship between human and nonhuman animals. Develops and refines critical thinking and discursive strategies for evaluating traditional and contemporary philosophical, legal, religious, moral, and social considerations that inform human attitudes about nonhuman animals. Challenges students to analyze a range of pertinent topics, including, but not limited to: animal welfare, animal liberation, animal sentience and consciousness, animal rights, the animal ethics movement, the animal rights movement, religious attitudes, animals, animal law, and animal activism.

PHIL 3470

Pragmatism and American Philosophy

3:3:0 Fall

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Introduces students to various philosophical themes and figures unique to classical American Philosophy and American Pragmatism. Focuses on assorted thematic topics characteristic of American Pragmatism, as well as the work of the American transcendental school and various philosophical writings from American women, such as Jane Addams, and African-American philosophers, such as Alain Locke.

PHIL 3510

Business and Professional Ethics

3:3:0 Fall

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and University Advanced Standing

Develops concepts and philosophies essential to understanding ethical concerns in today's business and professions. Presents current case studies and theories about business ethics and helps students determine their own attitudes about contemporary and historical business morality. Examines a variety of approaches, solutions, and methods of critically thinking about ethics in business and professions.

PHIL 3520

Bioethics

3:3:0 Fall

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

Shows how ethical theories can help provide frameworks for moral judgment and decision-making in the wake of recent scientific, technological, and social developments which have resulted in rapid changes in the biological sciences and in health care. Topics include: codes of ethics, ethical theories, and practical applications, such as: professional-patient relationships, genetic engineering, euthanasia, managed health care, end-of-life issues, abortion, and reproductive technologies.

PHIL 3530

Environmental Ethics

3:3:0 Spring

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and University Advanced Standing

Presents a comprehensive, balanced introduction to the field of environmental ethics. Examines a variety of national and international environmental issues. Challenges students to think and write critically about classic and contemporary works on ethics and the environment. Analyzes ethical, scientific, aesthetic, political, economical and religious perspectives pertaining to the environment.

PHIL 3540 (Cross-listed with: RLST 3540)

Christian Ethics

3:3:0 On Sufficient Demand

* Prerequisite(s): PHIL 1610 and University Advanced Standing

Examines key developments and conceptions in Christian ethics through historical and conceptual methodologies. Explores the relationship between religious and secular approaches to ethics in their approach to questions of war, economics, politics, and/or other relevant issues.

PHIL 3550

Moral Philosophy

3:3:0 Fall, Spring

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

Surveys the history of moral and ethical philosophy from the Ancients to contemporary figures. Focuses on the following issues and theories: The good, moral reasoning and judgment, objectivism vs. conventionalism and relativism; natural law theory, ethical egoism, hedonism, virtue ethics, deontology, consequentialism, utilitarianism. materialism, moral sentiment, roles of emotion and reason in ethical and moral deliberation and judgment, as well as race, gender, and sexuality in ethics. Figures examined may include: Plato, Aristotle, Augustine, Aquinas, Hobbes, Shaftsbury, Hutcheson, Hume, Kant, Mill, Nietzsche, de Beauvoir, Sartre, Camus, Frankena, Rawls, Harman, MacIntyre, Held, and hooks.

PHIL 357R

Moral Reasoning Through Case Studies

Ethics Bowl

3:3:0 Fall, Spring

* Prerequisite(s): (PHIL 2050 or PHIL 205G or PHIL 205H) and University Advanced Standing

Studies complex, contemporary ethical issues and develops an advanced understanding of principles and theories studied in other ethics and moral theory courses. Uses a case study approach to ethical inquiry and introduces students to the content, format, rules, and procedures of the National Collegiate Ethics Bowl competition. Required for those students who wish to participate in the regional and national competitions and provides a challenging opportunity for others who are interested in participating in exciting ethical deliberations and discussions. May be repeated for up to 9 credits for graduation with approval of instructor and department chair.

PHIL 3600

Philosophy of Religion

3:3:0 Fall

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

For students majoring in humanities related disciplines and other students interested in the academic study of religion. Teaches critical thinking methods and strategies regarding traditional philosophical issues in religious belief and practice. Explores various topics including the traditional arguments for the existence of God, religious experience, the relation between faith and reason, religious pluralism, and the traditional problem of evil.

PHIL 3610 (Cross-listed with: RLST 3610)

Introduction to Christian Theology

3:3:0 On Sufficient Demand

* Prerequisite(s): PHIL 1610 and University Advanced Standing

Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

PHIL 3620 (Cross-listed with: RLST 3620)

Mormon Theology and the Christian

Tradition

3:3:0 On Sufficient Demand

* Prerequisite(s): PHIL 1610 and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Engages students in exploring the defining features of Mormon thought in relation to the broader Christian tradition. Examines traditional theological questions such as the problem of evil, the scriptural canon, the nature of God and humanity, and the role of ritual.

Course Descriptions

PHIL 3650 (Cross-listed with: RLST 3650)

Approaches to Religious Studies

3:3:0 **Spring**

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Teaches methodological approaches and critical thinking strategies in the study of religion. Explores various disciplines in their approaches to religious belief and practice. Includes the study of such thinkers as David Hume, Immanuel Kant, Friedrich Schleiermacher, Rudolf Otto, William James, Ludwig Feuerbach, Soren Kierkegaard, Max Weber, Emile Durkheim, John Hick, and Rene Girard.

PHIL 366R (Cross-listed with: RLST 366R)

Issues in Religious Studies

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Addresses specific topics and theoretical approaches related to religious studies. Topics may include religion and violence, religion and public discourse, religious ritual, etc. Subject matter varies by semester and is repeatable for a total of 9 hours of credit.

PHIL 3700

Social and Political Philosophy

3:3:0 **Spring**

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G) and University Advanced Standing

Addresses ethics on the social level by exploring a variety of answers to the question: What is the best social structure? Covers concepts of justice, equality, liberalism, communitarianism, capitalism, democracy, feminism, multi-culturalism, and other topics.

PHIL 3710

Philosophy of Law

3:3:0 **Fall**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces topics in the philosophy of law, such as the role, nature, extent, and justification of law. Investigates challenging questions about the rule of law, civil disobedience, the relationship between law and morality, justice, equality, responsibility, and punishment.

PHIL 3750

Marxist Philosophy

3:3:0 **Spring**

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Examines the political philosophy of Karl Marx and looks at Marx's legacy for 20th century and contemporary philosophy. Topics may include: Marx's criticism of Hegel and Hegelian Idealism, Marx's philosophy as "ideology critique," Marx's "materialist" philosophy, Marx's critique of capital, and several of the following: early 20th century Marxist political philosophy, Critical Theory, structuralist Marxism, phenomenological Marxism, materialist feminism, and post-Marxism.

PHIL 3800 (Cross-listed with: HUM 3800)

Aesthetics

3:3:0 **Fall**

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G and HUM 1010 or HUM 101G or HUM 101H) and University Advanced Standing

Studies aesthetics as perceived by the disciplines of philosophy, psychology, sociology, anthropology, history, and others. Analyzes art forms, including the visual arts, literature, music, and theater from the perspective of philosophers such as Plato, Aristotle, Kant, Hume, Dewey, Danto, Bell, Collingwood, Thoreau, and Dickie.

PHIL 3810

Existentialism and Phenomenology

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Explores two of the most important and influential traditions within modern and contemporary philosophy. Covers figures such as Kierkegaard, Nietzsche, Husserl, Heidegger, Sartre, Camus, Merleau-Ponty, de Beauvoir, Gadamer, Levinas, Ricoeur, and Derrida, and issues in epistemology, metaphysics, ethics and aesthetics. The course focuses in particular on the notions of subjectivity, agency, free-will, and truth.

PHIL 3820 (Cross-listed with: HUM 3820)

Philosophy through Literature

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Provides students with an interdisciplinary approach to the study of philosophy through literature. Gives students the opportunity to read some of the most engaging thinkers and how they offer differing perspectives through a variety of texts. Breaks down some of the strict divisions placed between philosophical and literary texts.

PHIL 3830

Deconstruction and Hermeneutics

3:3:0

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or Instructor Approval) and University Advanced Standing

Studies the interpretive methods of deconstruction and hermeneutics, two important traditions to emerge in late 20th century philosophy. Analyzes various works from the history of philosophy through the frameworks of deconstruction and hermeneutics. Tracks the difference between knowledge and understanding, particularly through the writings of Jacques Derrida and Hans-Georg Gadamer. Includes the study of other relevant traditions such as post-structuralism, French feminism, and literary criticism.

PHIL 386R

Topics in Ancient Philosophy

3:3:0 **Spring**

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Provides students the opportunity to study aspects of ancient Greek philosophy intensively. Focuses on an aspect of the thought of a particular philosopher, such as Plato or Aristotle, or on a particular theme in Ancient philosophy, such as Ethics or Metaphysics. Emphasizes close study of primary texts. Develops strong critical thinking, writing and rhetorical skills. May be repeated up to 3 times for a total of 9 credits.

PHIL 400R

Great Philosophers

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Provides an in-depth look at a great figure in Philosophy across the topics of metaphysics, epistemology, ethics, social and political philosophy, aesthetics, and other themes. Addresses the contribution of the thinker to the history of Philosophy. Repeatable up to 12 credit hours with different topics.

PHIL 4120

Philosophy of Education

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 1010 or PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Examines history, issues, and philosophical theories of education with attention to associated metaphysical, epistemological, ethical, political, and ideological assumptions.

PHIL 4130

Nineteenth Century European Philosophy

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Introduces students to the changes in 19th century European philosophy regarding the nature of truth, knowledge, human freedom, and nature. Focuses on the attempts of German Idealism to formulate a systematic science of reality. Discusses the possibilities and problems with conceiving truth as both complete and absolutely knowable. Analyzes the philosophies of nature, art, human freedom, society, and ethics.

PHIL 4140

History of Analytic Philosophy

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (PHIL 2150 or instructor approval) and University Advanced Standing

Explores the history of Analytic Philosophy from the late 19th century to the present. Includes the study of such figures as Bertrand Russell, B. Bolzano, Gottlob Frege, Ludwig Wittgenstein, Rudolph Carnap, G.E. Moore, J.L. Austin, Gilbert Ryle, W.V.O. Quine, and Fredrich Waismann. Studies methods of movements such as Logical Empiricism, and Ordinary Language Philosophy. Explores views such as Logicism, Logical Atomism, Holism, Verificationism, Logical Behaviorism, Psychologism, Nominalism, and Realism.

PHIL 4150

History of Continental Philosophy

3:3:0 **Fall**

* Prerequisite(s): (PHIL 2150 or instructor approval) and University Advanced Standing

Explores continental European philosophy. Reviews Kant's "critical" philosophy. Examines Hegel's attempt to go beyond the limitations of critical philosophy by creating a systematic, dialectical philosophy. Examines the following traditions as responses to Hegel: Western Marxism, Existentialism, Phenomenology, Structuralism, Post-Structuralism and "Deconstruction," Post-Modernism, Psychoanalysis, and Feminism.

PHIL 4200

Symbolic Logic

3:3:0 **On Sufficient Demand**

* Prerequisite(s): PHIL 3000 and University Advanced Standing

Discusses the philosophical motivation for the formalization of logic. Introduces the metatheory for propositional and quantificational logic. Includes proofs of the soundness and completeness of quantificational logic. Discusses the philosophical issues surrounding the results proved. May also include some discussion of important results in computability.

PHIL 4300 (Cross-listed with: HUM 4300)

Environmental Aesthetics

3:3:0 **Spring**

* Prerequisite(s): (PHIL 000, PHIL 100H, PHIL 2050, PHIL 205H, PHIL 205G, ENST 3000, HUM 1010, HUM 101H, HUM 101G, or HUM 3500) and University Advanced Standing

Introduces students to emerging themes in environmental aesthetics. Evaluates concepts and attitudes toward nature including, but not limited to, the concept of beauty in natural and human-made environments from a cross-cultural perspective. Studies environmental formalism, cognitivism and non-cognitivism, as well as divergent spiritual, ecological, religious, and moral approaches to the appreciation of nature.

PHIL 430R

Topics in Epistemology

3:3:0

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Provides an opportunity for students to conduct an in-depth study of specific topics in epistemology. Topics may include the foundations of knowledge; the nature of justification; the problem of skepticism, and the nature of scientific, religious, and/or moral knowledge. Emphasizes the rigorous analysis of arguments and offers the opportunity for students to develop their own original critical analysis and argument. May be repeated for a maximum of 9 credits toward graduation.

PHIL 4460

Philosophy of Psychology

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (PHIL 2050, PHIL 205G, PHIL 205H, PSY 1010, or PSY 101H) and University Advanced Standing

Offers an interdisciplinary exploration of questions that arise when psychologists explore cognition and behavior concerning philosophical issues and when philosophers explore questions that rely on empirical claims about cognition and behavior. Surveys topics such as situationism and virtue ethics, moral intuitions, well-being, emotions, moods, positive illusions and free will, automaticity, confabulation, mental illness and psychopathy.

PHIL 4461 (Cross-listed with: PSY 4461)

Moral Psychology

3:3:0

* Prerequisite(s): (PHIL 2050 or PHIL 205G or PHIL 205H or PSY 1010 or PSY 101H) and University Advanced Standing

Analyzes questions about how people engage in moral thinking and in moral behavior from the perspectives of the philosophy of mind, ethics and psychology. Explores topics such as virtue and character, reason and passion, altruism and egoism, agency and responsibility, and moral intuitions.

PHIL 4470

Philosophy of Mind

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Explores central questions concerning the nature of the mind. Includes such topics as personal identity, the mind-body problem, other minds, mental causation, and externalism.

PHIL 4480

Philosophy of Language

3:3:0

Spring

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Explores the central issues in the philosophy of language. Includes the study of such issues as truth, meaning, reference and descriptions, names and demonstratives, speech acts, metaphor and private language. Includes the study of such philosophers as W.V.O. Quine, A Tarski, D. Davidson, J. Searle, J. Derrida, C. Levi-Strauss, F. Saussure, L. Wittgenstein, K. Donnellan, S. Kripke, D. Kaplan, H.P. Grice, B. Russell, and P.F. Strawson.

PHIL 450R

Interdisciplinary Senior Ethics Seminar

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): Instructor approval and University Advanced Standing

For integrated studies majors and other interested students. Addresses ethical issues dealing with discipline specific subject matter, i.e., nursing, behavioral, physical, social sciences, etc. Subject matter will vary each semester. Taught by Philosophy faculty in cooperation with faculty of appropriate departments. Repeatable three times for credit with different subjects. See Philosophy Department office for specific topics.

PHIL 451R

Ethical Theory Seminar

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing

Offers detailed investigation of selected ethical theories central to the Western philosophical tradition. Repeatable up to 12 credit hours with different topics.

PHIL 452R

Topics in Value Theory

3:3:0

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Provides an opportunity for students to conduct an in-depth study of specific topics in value theory. Considers theoretical questions about the nature of value, meaning, and purpose in human life. Includes the objectivity or subjectivity of value; the sources of value in human life; the nature and importance of art; the value of relationships, community, humor, and/or play; and related theoretical inquiries into the value of particular human activities. Emphasizes the rigorous analysis of arguments and offers the opportunity for students to develop their own original critical analysis and argument. May be repeated for a maximum of 9 credits toward graduation.

PHIL 481R

Internship

1 to 6:0:5 to 30 **Fall, Spring, Summer**

* Prerequisite(s): Departmental chair approval and University Advanced Standing

Allows philosophy students to receive credit for service as an intern in a governmental, not for profit, or private agency apart from their regular employment. Provides practical and research development in selected areas of service related to students' academic and/or professional interests or goals. Internship must be supervised by agency representative. Must be approved by philosophy internship advisor and department chair and written contracts must be completed and signed. Repeatable for a maximum of 6 credit hours toward graduation. May be graded credit/no credit.

PHIL 490R

Independent Study

1 to 3:0 to 3:0 to 12 **On Sufficient Demand**

* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides independent study as directed in reading and individual projects. May be repeated for up to 6 total credits toward graduation.

Course Descriptions

PHIL 4910

Philosophy Research Capstone

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (PHIL 1250 or PHIL 2110 or PHIL 2150), Senior Standing, and University Advanced Standing

To be taken during the student's last semester in the baccalaureate program. Includes writing a senior thesis, which points to post-baccalaureate career path or graduate school goals. Covers advanced Philosophy research and writing instruction. Encourages students to explore the ethical dimensions of their desired professional or graduate research interests. Involves the creation of a portfolio helpful in applying to graduate school or seeking employment. The portfolio includes the senior research thesis, an abstract of the thesis, three letters of recommendation, a Curriculum Vita, a Personal Statement, and a PowerPoint presentation.

PHIL 492R

Advanced Topics in Philosophy

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): (PHIL 1000 or PHIL 100H or PHIL 2050 or PHIL 205H or PHIL 205G or PHIL 2110 or PHIL 2150 or instructor approval) and University Advanced Standing

Examines advanced topics philosophy. Examples include ancient theories of political constitution, continental rationalism, empiricism, personal identity, free will, theories of truth and modal logic. May be repeated for a maximum of 9 credits toward graduation.

Physical Science (PHSC)

PHSC 1000

Survey of Physical Science

3:3:0 Fall, Spring, Summer

Surveys the exciting world of science and explains the basic scientific laws and models by which the physical universe may be understood. Stresses historical aspects and the impact of physical science on modern society. Draws topics from the fields of physics, chemistry, geology, meteorology and astronomy. Uses lectures, dramatizations, audio-visual presentations, and demonstrations.

PHSC 281R

Cooperative Work Experience

2 to 9:1:5 to 4:0 On Sufficient Demand

* Prerequisite(s): Approval of Cooperative Coordinator

Designed for Physical Science majors. Provides paid work experiences in the student's major. Course content is individualized, with students setting objectives in consultation with their faculty coordinator and their on-the-job supervisor. Credit is determined by the number of hours a student works during the semester. May be graded credit/no credit.

Physics (PHYS)

PHYS 1010

Elementary Physics

3:3:0 Fall, Spring, Summer

* Prerequisite(s): MAT 1010

For students interested in a one-semester survey physics course. Covers the fundamentals of classical and modern physics. Includes mechanics, fluids, heat, waves and sound, electricity and magnetism, light, optical, relativity, atomic and nuclear physics. Includes lectures, classroom interaction, demonstration, and problem solving.

PHYS 1700

Descriptive Acoustics

3:3:0 Fall

* Prerequisite(s): MAT 1010

Introduces the science of sound, music and speech and the physical principles and technology used to manipulate, store and broadcast it.

PHYS 1750

The Acoustics of Music

3:3:0 Fall, Spring

* Prerequisite(s) or Corequisite(s): MAT 1030 or higher

Discovers the principles of physics that form the basis of music and provide the foundation for the design of musical instruments. Investigates the physics of music production, transmission and reception, and perception. Examines the five fundamental elements of the musical instrument, namely power supply, oscillator, resonator, amplifier, and pitch modifiers. Satisfies one general education physical science elective.

PHYS 1800

Energy You and the Environment

3:3:0 Spring

Answers the question, "Where does energy come from, and where does it go?". Examines the methods of energy production, distribution, and consumption in society and their environmental impacts. Examines the personal impact of energy use on the environment and explores alternatives, such as fuel cell cars, and a hydrogen economy. Examines prospects for alternative energy sources, such as solar, wind, nuclear and geothermal energy at length. Intended for non-science majors interested in energy use in society.

PHYS 1850

The Physics of Aviation

3:3:0 Fall, Spring, Summer

* Prerequisite(s): MAT 1030 or appropriate math placement score

Uses the medium and modes of flight and modern aviation to introduce elementary physics. Includes vectors, kinematics, forces, momentum, energy, torques, elementary fluid dynamics and thermodynamics. Uses Algebra extensively. Presents and develops concepts of physics as exercises in modeling constructed from examples used in aviation. May be delivered online.

PHYS 2010

College Physics I

4:4:0 Fall, Spring, Summer

* Prerequisite(s): MATH 1050 or MATH 1055

* Corequisite(s): PHYS 2015

For students desiring a two semester algebra based course in applied physics. Covers mechanics, fluids, waves, heat, and thermodynamics. Canvas Course Mats \$78/Pearson applies.

PHYS 2015

College Physics I Lab

1:0:2 Fall, Spring, Summer

* Prerequisite(s): MATH 1050 or MATH 1055

* Prerequisite(s) or Corequisite(s): PHYS 2010

Designed to accompany PHYS 2010. Provides firsthand experience with the laws of mechanics, fluids, waves, heat, thermodynamics, and data analysis. Course Lab fee of \$15 applies.

PHYS 2020

College Physics II

4:4:0 Fall, Spring, Summer

* Prerequisite(s): PHYS 2010

* Corequisite(s): PHYS 2025

A continuation of PHYS 2010. Covers electricity, magnetism, waves, sound, optics, and nuclear physics.

PHYS 2025

College Physics II Lab

1:0:2 Fall, Spring, Summer

Designed to accompany PHYS 2020. Provides firsthand experience with the laws of electricity, waves, optics, nuclear physics, and data analysis. Course Lab fee of \$15 applies.

PHYS 2210

Physics for Scientists and Engineers I

4:4:1 Fall, Spring, Summer

* Corequisite(s): PHYS 2215

* Prerequisite(s) or Corequisite(s): MATH 1210

A calculus-based treatment of introductory physics for scientists and engineers. Topics include mechanics, fluid physics, thermodynamics, vibrations, and waves. Includes 1 hour of recitation per week.

PHYS 2215

Physics for Scientists and Engineers I Lab

1:0:2 Fall, Spring, Summer

Designed to accompany PHYS 2210. Provides firsthand experience with the laws of mechanics, thermal physics, vibrations, and waves. Introduces methods of scientific data analysis. Course Lab fee of \$15 applies.

PHYS 2220

Physics for Scientists and Engineers II

4:4:1 Fall, Spring, Summer

* Prerequisite(s): PHYS 2210

* Corequisite(s): PHYS 2225

* Prerequisite(s) or Corequisite(s): MATH 1220

A continuation of PHYS 2210. Covers electricity and magnetism, inclusive of Maxwell's equations. Develops theory of electromagnetic waves and optics. Presents introductory electronics and modern physics topics. Includes one hour of recitation.

PHYS 2225
Physics for Scientists and Engineers II Lab
1:0:2 Fall, Spring, Summer

Designed to accompany PHYS 2220. Verifies through laboratory experience the laws of electricity and magnetism, electric circuits, and optics. Principles of data collection and analysis are emphasized. Course Lab fee of \$15 applies.

PHYS 2500
Elementary Fluids and Thermal Physics
3:3:0 Fall

* Prerequisite(s): PHYS 2220
 * Corequisite(s): MATH 2210

Presents a mathematically rigorous introductory description of fluid mechanics, thermodynamics, and heat transfer beyond that presented in PHYS 2210. Presents applications in both physics and engineering.

PHYS 2800
Introduction to Materials Physics
3:3:0 Spring

* Prerequisite(s): PHYS 2220

Covers the atomic structure of materials and their properties, including electronic, thermal, and optical properties. Addresses experimental methods for creating and studying materials, and current topics in materials science including thin films, surface physics, metamaterials, and nanostructured materials.

PHYS 295R
Introduction to Independent Research
1 to 3:0:3 to 9 On Sufficient Demand
 * Prerequisite(s): PHYS 2210, Departmental Approval

Working under faculty supervision, allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be repeated for no more than six hours of elective credit.

PHYS 3010
Physics Experiments for Secondary Education
1:0:3 Spring

* Prerequisite(s): PHYS 2210, (MATH 1050 or MATH 1055), MATH 1210, PHYS 2220, MATH 1060, and University Advanced Standing

For secondary education students. Emphasizes physics or chemistry. Addresses pedagogical methods for student physics laboratory exercises and demonstrations. Studies currently available commercial laboratory equipment for teaching physics in a lab setting. Includes ideas and methods for building inexpensive demonstrations and lab exercises. Provides training in safe and effective use of lab equipment.

PHYS 3040
Modern Physics for Secondary Education
3:3:0 On Sufficient Demand

* Prerequisite(s): PHYS 2220, MATH 1220, and University Advanced Standing

Addresses topics of special relativity, development of quantum mechanics, physics of the atom, elementary solid state physics, and elementary particle physics.

PHYS 3110
Modern Physics I
3:3:0 Fall

* Prerequisite(s): PHYS 2220 and University Advanced Standing
 * Corequisite(s): PHYS 3115

Addresses topics of error analysis and statistics, wave mechanics, special relativity, development of quantum mechanics, and atomic physics.

PHYS 3115
Introduction to Experimental Physics I
2:1:3 Fall

* Prerequisite(s): PHYS 2220 and University Advanced Standing
 * Corequisite(s): PHYS 3110

Introduces selected experiments of classical and modern physics in a laboratory setting. Addresses topics of measurement, error analysis, data analysis, and report writing.

PHYS 3120
Modern Physics II
3:3:0 Spring

* Prerequisite(s): HYS 3110 and University Advanced Standing
 * Corequisite(s): PHYS 3125

* Prerequisite(s) or Corequisite(s): PHYS 3300

Covers topics in special and general relativity, and addresses applications of modern quantum mechanics including molecular physics, solid state physics, statistical mechanics, nuclear physics, particle physics, and cosmology.

PHYS 3125
Introduction to Experimental Physics II
2:1:3 Spring

* Prerequisite(s): PHYS 3110, PHYS 3115, and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): PHYS 3120

Introduces selected experiments of classical and modern physics in a laboratory setting. Addresses topics of measurement, data analysis, report writing.

PHYS 3230
Principles of Electronics for the Physical Sciences
3:2:3 Fall

* Prerequisite(s): PHYS 2220, MATH 2210, and University Advanced Standing

Introduces electronic measurement instruments commonly used in experimental physics laboratories. Covers principles of electronic measurements using transducers, solid-state devices, circuit analysis, logic circuits, and computers. Includes lab experience.

PHYS 3300
Mathematical Physics
3:3:0 Fall

* Prerequisite(s): PHYS 2220, and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): MATH 2210 or instructor consent. MATH 2280 is strongly advised as a pre- or corequisite.

Covers the applications of mathematical tools to experimental and theoretical research in the physical sciences. Introduces problems and systems common to physical science that can be modeled by the application of vector and tensor algebra, curvilinear coordinates, linear algebra, complex variables, Fourier series and transforms, differential and integral equations.

PHYS 3310
Advanced Mathematical Physics
3:3:0 Spring

* Prerequisite(s): PHYS 3300 and University Advanced Standing

Explores mathematics as applied to physics. Covers many families of orthogonal polynomials and the special functions of physics, such as the Gamma, Beta, and Error functions. Presents topics in contour integration and applications of conformal mapping. Investigates probability, random processes, statistical analyses, and probability distribution functions.

PHYS 3330
Computational Physics
3:3:0 Spring

* Prerequisite(s): PHYS 3300 and University Advanced Standing

Covers computational algorithms with specific applications to the description of physical systems. Covers iterative approximation methods, computations using matrices and vectors, numerical integration, solutions of differential equations. Uses a computer programming approach to problem solving.

PHYS 3350
Applications of LabVIEW in Physics
3:2:2 Spring

* Prerequisite(s): PHYS 3230 and University Advanced Standing

Develops programming skills in LabVIEW. Utilizes LabVIEW as the primary interface for analog and digital I/O for applications in physics experiments. Includes a student-directed group project that demonstrates effective use of LabVIEW in hardware interfacing in a physics experiment.

PHYS 3400
Classical Mechanics
3:3:0 Spring

* Prerequisite(s): PHYS 2220 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): PHYS 3300 recommended

Treats classical mechanics of particles and systems using advanced mathematical techniques. Covers conservation principles, Lagrangian dynamics, harmonic oscillators, motion of rigid bodies and non-inertial reference frames.

Course Descriptions

PHYS 3500

Thermodynamics

3:3:0

Spring

* Prerequisite(s): PHYS 2220, MATH 2210, and University Advanced Standing

Addresses topics of heat, temperature, ideal gases, laws of thermodynamics, entropy, reversibility, thermal properties of solids, phase transitions, thermodynamics of magnetism, and negative temperature.

PHYS 3600

Optics

3:3:0

Spring

* Prerequisite(s): PHYS 3300, PHYS 3110, and University Advanced Standing

Covers the phenomena of reflection, refraction, diffraction, interference, optical behavior in materials and lasers. Presents a mathematically rigorous description of optical phenomena. May include equipment-based class projects.

PHYS 3800 (Cross-listed with: CHEM 3800, ENVT 3800)

Energy Use on Earth

3:3:0

Fall

* Prerequisite(s): (PHYS 1010 or PHSC 1000 or CHEM 1010 or GEO 1010 or GEO 2040 or METO 1010) and (MATH 1050 or MATH 1055) and University Advanced Standing

Covers the science of energy production and consumption. Quantitatively analyzes various methods of energy production, distribution, and end use in all sectors of our society, including transportation, residential living, and industry. Examines the impacts of our energy consumption on the environment and prospects for alternative energy sources. Intended for science majors interested in energy use in society or in an energy related career, and for students in other majors who feel that a technical understanding of energy use will help them to understand and mitigate its impact in our society.

PHYS 4100

Biophysics

3:3:1

On Sufficient Demand

* Prerequisite(s): (PHYS 3110, PHYS 3115, BIOL 1610, or instructor approval) and University Advanced Standing

Covers the thermodynamics and statistical mechanics of biological systems, the mechanics of biologically important molecules, and the laws of fluid mechanics as applied in biological systems. Uses calculus-based mathematical models to treat specific reactions, particularly those treating biological systems as molecular machines.

PHYS 4150

Medical Physics

3:3:0

Fall

* Prerequisite(s): PHYS 3110, PHYS 3115 and University Advanced Standing

Explores the theory and applications of physics to medicine. Covers signal analysis, ultrasound, X-rays, optical, nuclear, and X-ray imaging techniques, nuclear medicine, magnetic resonance imaging, and nanomedicine.

PHYS 4200 (Cross-listed with: BIOL 4200, CHEM 4200, GEO 4200)

Teaching Methods in Science

3:2:2

On Sufficient Demand

* Prerequisite(s): Acceptance into secondary education program, senior-level standing, instructor approval, and University Advanced Standing

Examines objectives, instructional methods and curriculum for teaching science in the secondary school. Includes developing, adapting, evaluating, and using strategies and materials for teaching biological and physical sciences. Explores special needs of the learners and characteristics specific to the science discipline.

PHYS 4210

Advanced Experimental Techniques

3:1:4

Fall

* Prerequisite(s): (PHYS 3125, PHYS 3230, or instructor approval) and University Advanced Standing

Introduces fundamental skills required for conducting successful scientific research in a physics laboratory setting. Covers vacuum technology, basic machine shop practice, electronic instrumentation, electron microscopy, scanning probe microscopy, nuclear magnetic resonance, and x-ray diffractometry.

PHYS 4250

Nuclear Physics

3:3:0

On Sufficient Demand

* Prerequisite(s): PHYS 3110

Covers radiation, radioactive decay, nuclear structure, interactions of radiation with matter, radiation detection, nuclear reactions, fission, fusion, and applications of nuclear physics.

PHYS 425R

Physics for Teachers

1 to 5:1 to 5:0 to 10

Summer

* Prerequisite(s): Department Approval and University Advanced Standing

For licensed teachers or teachers seeking to recertify, an update course in physics and/or basic physics core courses for teachers needing physics or physical science endorsements from the Utah State Office of Education. Teaches principles of physics and pedagogy of teaching physics for teachers in public or private schools. Emphasis will be placed on correlation with the Utah Core Curriculum, the National Science Education Standards, and the Benchmarks of Project 2061. Topics will vary.

PHYS 4350

Research Methods in Physics

3:1 to 2:2 to 4

Fall, Spring

* Prerequisite(s): Instructor and Department approval and University Advanced Standing

Presents directed topics in research methods. Emphasizes practical methodologies in measurement, instrumentation, error analysis, statistical analysis and computational modeling. Requires a class project that may require MATLAB, LABView or other programming languages. Includes producing oral presentations, posters and journal articles using contemporary software and LaTeX.

PHYS 4410

Electrostatics and Magnetism

3:3:0

Fall

* Prerequisite(s): PHYS 3110, PHYS 3115, PHYS 3300, and University Advanced Standing

Explores the theory of electrostatic phenomena in a mathematically rigorous manner. Covers Gauss' Law, the Laplace and Poisson equations, boundary-value problems, and dielectrics.

PHYS 4420

Electrodynamics

3:3:0

Spring

* Prerequisite(s): PHYS 4410 and University Advanced Standing

Explores the theory of electrodynamic phenomena in a mathematically rigorous manner. Covers Ohm's and Kirchhoff's Laws, magnetic induction, the Biot-Savart Law, Ampere's Law, Ferromagnetism, Plasmas, Maxwell's Equations, and Special Relativity.

PHYS 4510

Quantum Mechanics I

3:3:0

Fall

* Prerequisite(s): PHYS 3110, PHYS 3115, PHYS 3300, and University Advanced Standing

Covers postulates of quantum mechanics, state functions of quantum systems, Hermitian Operators, the Schrodinger Equation, eigenfunctions of harmonic oscillators, and particles in potential wells.

PHYS 4520

Quantum Mechanics II

3:3:0

Spring

* Prerequisite(s): PHYS 4510 and University Advanced Standing

Covers general principles and applications of quantum mechanics. Addresses topics of three-dimensional problems, angular momentum operators, spin wavefunctions, perturbation theory, applications to atomic, molecular, solid-state, and nuclear physics.

PHYS 4700

Acoustics

3:3:0

Fall

* Prerequisite(s): PHYS 3110, PHYS 3115, PHYS 3300, and University Advanced Standing

Covers phenomena of sound, resonance, acoustics, and human hearing. Treats associated topics of waves, frequency, vibration and interference using appropriate mathematical tools.

PHYS 4800

Solid State Physics

3:3:0

Spring

* Prerequisite(s): PHYS 3120, 3125, PHYS 4510, and University Advanced Standing

Explores topics relevant to the structure, behavior, and properties of crystalline materials. Includes a study of lattice vibrations, free electrons, semiconductors, superconductivity, dielectric and ferroelectric materials and magnetism.

PHYS 481R
Physics Internship
1 to 4:0:5 to 20 **On Sufficient Demand**
 * Prerequisite(s): PHYS 2220, Departmental Approval, and University Advanced Standing

Provides supervised, practical, and research experience for students preparing for careers in physics. May be repeated for a maximum of 6 credit hours. May be graded credit/no credit.

PHYS 489R
Undergraduate Research in Physics
1 to 3:0:3 to 9 **On Sufficient Demand**
 * Prerequisite(s): PHYS 2220, Departmental Approval, and University Advanced Standing

Allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be used as part of a senior thesis. May be repeated for a maximum of 9 credits toward graduation.

PHYS 490R
Seminar
.5: .5:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing

Exposes students to current research topics in physics and related fields. Provides an opportunity for students to attend bi-weekly lectures presented by department faculty and invited speakers. Lectures are usually a summary of the speaker's recent research results presented at a level appropriate for junior and senior physics majors.

PHYS 492R
Topics in Physics
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): Departmental approval and University Advanced Standing

Studies a chosen topic in physics. Topics vary depending upon student demand. Possible topic may be the mathematics for quantum mechanics. May be taken for a maximum of 6 credits toward graduation, but is limited to 3 credits for the BS in Physics.

PHYS 495R
Independent Readings
1 to 3:0:3 to 9 **On Sufficient Demand**
 * Prerequisite(s): PHYS 2220, Departmental Approval, and University Advanced Standing

Working under faculty supervision, allows research on a project determined jointly with a faculty member and approved by the department chair. Emphasizes experimental technique, data collection, modeling, and analysis techniques. May be used as part of a senior thesis. May be repeated for a maximum of 9 credits toward graduation.

PHYS 499A
Senior Project
2:0:6 **On Sufficient Demand**
 * Prerequisite(s): Instructor approval, Departmental approval, and University Advanced Standing

Provides an opportunity for senior physics majors to participate in a current research project supervised by a department faculty member. Includes independent study and/or laboratory work as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project as required for PHYS 499B. May be taken concurrently with PHYS 499B.

PHYS 499B
Senior Thesis
1:0:3 **On Sufficient Demand**
 * Prerequisite(s): Instructor approval, Departmental approval, and University Advanced Standing

Continues PHYS 499A. Provides an opportunity for senior physics majors to present the results of a current research project supervised by a department faculty member. Includes independent study as necessary. Culminates in the preparation of a written paper and oral presentation describing the results of the research project.

Peace and Justice Studies (PJST)

PJST 3000
Introduction to Peace and Justice Studies
3:3:0 **Fall**
 * Prerequisite(s): PHIL 2050 and University Advanced Standing

Introduces the student to the important literature, questions, and research programs of peace and justice studies. Explores personal, domestic, national, and international issues. Considers alternative conceptions of violence, war, terrorism, justice/injustice, and peace. Enables the student to become aware of various intellectual and professional disciplines that bear relationships to peace and justice, e.g., history, political theory, international relations, political economy, international law, environmental law, military science, mediation and negotiation.

PJST 3020
The Ethics of War and Peace
3:3:0 **Spring**
 * Prerequisite(s): PHIL 2050 and University Advanced Standing

Introduces literature concerning the ethics of conflict, war, terrorism, and peace. Considers alternative conceptions of these phenomena, as will be alternative approaches and ethical theories in respect to how conflict of various kinds might most effectively and morally be preempted or diminished. Addresses various defense theories and religious traditions' teachings about conflict, violence, and peace.

PJST 3030
The Scientific Study of War and Peace
3:3:0 **Spring**
 * Prerequisite(s): PJST 3000 and University Advanced Standing

Takes a multidisciplinary approach to the study of conditions under which the use of violence, terrorism, and war occur. Studies the use of non-violent approaches to conflict and their effectiveness. Examines the ways in which strategies for violent and non-violent approaches to conflict are developed and evaluated.

PJST 3040
Peace in Historical Context
3:3:0 **Fall**
 * Prerequisite(s): University Advanced Standing

Explores peace from an historical perspective. Considers the history of peace movements and humanitarianism, warfare, slavery and abolition, colonization, and indigenous perspectives on peace. Introduces students to the field of peace history and the ways historians have defined and understood peace. Enables the student to historicize peace in relationship to violence.

PJST 3100
Introduction to Human Security
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): ENGL 2010 and (PHIL 2050 or PHIL 205G) and University Advanced Standing

Introduces the student, and brings him or her, to some depth in the field of human security. Engages the student in a wide range of interdisciplinary literature because this field of inquiry, discourse, and conception is contested, theoretically rich, and empirically rich. Analyzes matters that threaten human security, for example: hunger and malnutrition; disease; cultural, structural, and direct violence; ecological and environmental degradation; political and economic instability and hegemony. Analyzes the organizations, institutions, movements, and strategies assembled successfully against these threats.

PJST 3200
Global Poverty Facts Causes and Solutions
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020 or instructor approval) and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): PHIL 2050 or PHIL 205G or instructor approval

Analyzes global poverty as a serious and pressing worldwide problem that kills over 33,000 people each day. Interrogates questions of why poverty exists, as well as what is or can be done to diminish or eliminate it. Presents sophisticated and empirically-based information regarding global malnutrition, conflict, migration, lack of employment and healthcare, etc. Uses the most recent research and research methodologies to investigate both the causes of poverty and the most promising solutions. Examines literature about various moral perspectives and how they speak to the moral duty (or its absence) to address poverty.

Course Descriptions

PJST 3300

Community Development

3:3:0 On Sufficient Demand

* Prerequisite(s): PJST 3000 and University Advanced Standing

Surveys the nature of community and approaches to the building and strengthening of community. Analyzes needs in various communities and methods of implementing solutions to meet those needs. Explores policies and strategies that produce a high quality of life and maximum opportunity for all residents of local communities. Examines community development through case studies and direct student engagement.

PJST 3400

Conflict Transformation Resolution and Sustainable Peace

3:3:0

* Prerequisite(s): PJST 3000 and University Advanced Standing

Uses empirical data to interrogate and explicate organized death in the form of war, revolution, insurgency, or terrorism as a perennial, and one of the most complicated, problems. Uses empirical data and theory to investigate the means of conflict transformation that have been most successful. Presents a basic understanding of how conflict is transformed from (1) an active status to (2) resolution to (3) peaceful stalemate to (4) sustained peace. Explicates the process of moving from active violent conflict to sustainable peace. Explores the roles of peoples, state organizations, institutions, civil society, culture, religion, states, and multilateral organizations.

PJST 4200

Advanced Poverty Studies: Global Problems and Policies

3:3:0 On Sufficient Demand

* Prerequisite(s): (PHIL 2050 or PHIL 205G) and University Advanced Standing

Analyzes the nature of poverty in diverse societies, techniques for its measurement and inaccurate measurement, and the causes and reasons for poverty and its intractability. Examines the ways in which local, national, and global factors are part of the nature of poverty. Surveys policies and institutions designed to confront the problem. Interrogates and explicates the ethical issues surrounding poverty and its alleviation.

PJST 4300

Race Gender and Class in Peace and Justice

3:3:0 Fall Odd Years

* Prerequisite(s): PJST 3000 and University Advanced Standing

Analyzes the bases of discrimination and domination in societies. Addresses the multidimensional forms of social inequality by examining concrete examples of each dimension such as the wealth gap, gendered work, and poverty. Examines the nature of social class, race, and gender as they relate to issues of war, peace, injustice, and justice. Surveys the contributions that the perspectives of the dominated and victims of discrimination offer to the resolution of inequalities and the establishment of equity.

PJST 475R

Issues in Peace and Justice Studies

3:3:0

Fall

* Prerequisite(s): PHIL 2050, Junior Standing, and University Advanced Standing

Presents a selected topic from current issues in the area of Peace and Justice Studies which will vary each semester. May approach topics from a cross-disciplinary perspective. Requires a project demonstrating competence in the specific topic or issue. May be repeated for a maximum of 6 credits toward graduation.

PJST 481R

Internship

1 to 8:0:5 to 40

Fall

* Prerequisite(s): Program Director Approval and University Advanced Standing

Provides opportunities for internship experience in the following types of agencies: political, governmental, corporate, private, news agencies or any non governmental organization (NGO) apart from regular employment. Encourages practical, research, and/or development experience in selected areas of service related to the student's academic or professional goals relevant to peace and justice studies concerns. Requires supervision by an agency representative and approval of the Peace and Justice Studies internship adviser and the program director. Requires that written contracts be completed and signed by all responsible parties. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

PJST 4900

Peace and Justice Studies Capstone

3:3:0

Fall

* Prerequisite(s): ENGL 2010, Senior Standing, and University Advanced Standing

To be taken during the student's last semester. Includes writing a senior thesis which points to career or graduate school goals. Requires a significant research project, which may coincide with field work and/or internship experience. Covers advanced Peace and Justice Studies research and writing instruction. Involves the creation of a portfolio helpful in applying to graduate schools or seeking employment.

PJST 491R

Independent Study

1 to 8:0:5 to 40

Fall

* Prerequisite(s): Program Director Approval and University Advanced Standing

For self-directed students who wish to engage in a well-defined study or project in an area of special interest within the domain of Peace and Justice Studies. Requires individual initiative and responsibility with limited formal instruction and faculty supervision. Projects may include writing a publishable paper, giving an oral presentation, passing a competency exam, or completing any other options approved by the instructor and the program director. May be repeated for up to 9 credits toward graduation.

Political Science (POLS)

POLS 1000

AS

American Heritage

3:3:0

Fall, Spring, Summer

Studies the founding of American constitutional government. Considers the cultural, economic, legal, political, and social ramifications of the Constitution of the United States.

POLS 1010

SS

Introduction to Political Science

3:3:0

Fall, Spring

Explores the nature of politics and power. Compares constitutional systems of government with closed totalitarian systems such as the Communist Bloc nations. Examines public opinion, political communications, interest groups, party politics, ideologies, governmental institutions, bureaucracies, and government legal systems. Studies the role of violence and revolution. Emphasizes the influence of these political elements on the average citizens.

POLS 1020

Political Ideologies

3:3:0

Fall, Spring

Surveys the major historical and current political ideologies including liberalism, Marxism, fascism and Islamism.

POLS 1100

AS

American National Government

3:3:0

Fall, Spring, Summer

Studies history and structure of American National Government, rights and responsibilities of citizens, political institutions, political processes, and governmental policies.

POLS 1440

Introduction to Middle East Politics

3:3:0

On Sufficient Demand

Studies social, historical, political and religious influences affecting the Middle East. Explores forces that motivate policy and decision-making. Examines current issues such as the Arab-Israeli conflict, political Islam, petroleum power and U.S. foreign policy. Presents profiles of selected modern Middle East states and the balance of power in the region.

POLS 1800

Our Global Community

3:3:0

On Sufficient Demand

Examines geography, climate and topography of Western Europe, Asia, Latin America, Pacific Rim, sub-Saharan Africa and Middle/East Islamic regions. Studies the unique social, cultural, economic and political differences and resulting tensions and conflicts. Explores how historical experience affect the expectations and perceptions of selected populations.

POLS 2100

SS

Introduction to International Relations

3:3:0

Fall, Spring, Summer

Discusses logic of power in international relations. Studies idealistic and realistic theories of international relations. Examines reasons why nations go to war. Compares geopolitical thrust and response.

POLS 2200 SS**Introduction to Comparative Politics**
3:3:0 Fall, Spring

Studies comparative politics and looks at attitudes and causes of political problems. Examines methods and means employed by selected countries to solve political problems, and studies successes and failures of different approaches. Examines the means which different nations employ to deal with political problems. Explores the politics, institutions, and governments of seven selected nations.

POLS 2210**Introduction to Chinese Politics**
3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 1010

Reviews the historical background in which Chinese Communist Party established its governance. Examines the politics of the People's Republic of China since 1949. Analyzes important aspects of Chinese political and economic institutions and governance, such as party-state, political economy, judicial system, military, dissent politics, and foreign policy. Explains Chinese geographic and demographic features and how those features affect Chinese politics and economy. Discusses significant effects and implications which China's political modernization and economic growth might have across its border.

POLS 2220**Introduction to Chinese Commerce**
3:3:0

* Prerequisite(s): ENGL 1010

Surveys the current situation of the Chinese economy, starting with Chinese economic geography and the historical background of economic development in the post-1978 era. Concentrates on economic transition, development strategies, and basic situations of various sectors in the post-reform era, discussed in a comparative framework with the economic transition and development experience of other countries. Discusses some current eye-catching issues associated with economic development and having international impacts, such as international trade and investment transactions, energy competition, and environmental degradation of China.

POLS 2250**Globalization and Sustainable Mountain Development**
3:3:0 On Sufficient Demand

* Prerequisite(s): ENGL 1010

Considers the issues of sustainable mountain development (SMD) as a part of the globalization process and one of the important priorities of the multilateral agenda of the United Nations. Includes the problems of mountain ecosystems, sources of goods, food, services for mountain populations. Examines special economic development issues in rural, isolated mountain communities in the contexts of recreation and tourism, biological and cultural diversity, and religious significance.

POLS 230G**Introduction to Political Theory**
3:3:0 On Sufficient Demand

Surveys major Western political theories, from Athenian democracy to the 21st century welfare state. Analyzes such ideologies as republicanism, liberalism, socialism, and fascism, and considers how these ideas have shaped the ways in which people think and nations act. Explores how global cultures have used and abused these ideas, and how students' own political beliefs fit into the history of political ideologies.

POLS 2400**Peace and Justice Studies Basics**
3:3:0 On Sufficient Demand

Examines the complexities and consequences of efforts to deal with conflicts between individuals, groups, and nations through a variety of techniques, including violence, war, and peace building. Introduces techniques used in the non-violent resolution of conflicts. Promotes techniques to avoid resorting to violence as a means of conflict resolution.

POLS 3000**Political Analysis**
3:3:0 Fall, Spring, Summer

* Prerequisite(s): (STAT 1040 or MATH 1050 or higher) and POLS 1010 and University Advanced Standing

Covers the analytical and quantitative methodologies used in political science and public policy research. Includes statistical analysis, database research, and writing exercises.

POLS 3010**Political Analysis II**
3:3:0 On Sufficient Demand

* Prerequisite(s): POLS 3000 and University Advanced Standing

Covers advanced political data analysis techniques, including: advanced multiple regression analysis and diagnostics, measurement reliability and validity, the use of statistical-analysis software and presentation of analysis results.

POLS 3020**Public Program Analysis**
3:3:0 Fall Odd Years

* Prerequisite(s): University Advanced Standing

Serves as an introduction to evaluation methodology and evaluation tools commonly used to assess publicly funded programs. Provides training and practice in the field of public program analysis. Familiarizes students with different types of program evaluation, including needs assessment, formative research, process evaluation, monitoring of outputs and outcomes, impact assessment, and cost analysis.

POLS 3030**State and Local Government**
3:3:0 Fall Even Years

* Prerequisite(s): University Advanced Standing

Examines the operation and structure of American State and Local Government with special attention to the Utah experience. Explores the local political process, administrative practices, and intergovernmental relations.

POLS 3040**Survey Research and Design Methods**
3:3:0 On Sufficient Demand

* Prerequisite(s): University Advanced Standing

Focuses on the role of polling in the political process. Introduces the theory and methods used in survey research. Includes how survey-research firms produce polls, analysis of polling for campaigns and public opinion, the psychology of survey response, survey construction, and sampling. Covers other data-collection techniques commonly used in politics and political science such as focus groups and experiments.

POLS 3050**Experimental Methods in Political Science**
3:3:0 Spring

* Prerequisite(s): POLS 3000 and University Advanced Standing

Provides an overview of experimental methodology currently being utilized in the field of Political Science. Dissects the multiple stages of experimental research design and data analysis. Teaches critical thinking in terms of the benefits and dangers of causal inference using experimental research.

POLS 3060**Qualitative Analysis**
3:3:0 On Sufficient Demand

* Prerequisite(s): POLS 3000 and University Advanced Standing

Offers a hands-on opportunity for students to experience the practice of qualitative research. Provides training and practice in a broad set of qualitative methods as applied to public sector organizations, such as state and federal agencies, municipalities, and nonprofit organizations.

POLS 3070**Policy Analysis**
3:3:0 Fall Odd Years

* Prerequisite(s): POLS 3310 and University Advanced Standing

Provides an introduction to the objectives, functions, and techniques of policy analysis in democratic societies, with an emphasis on the United States. Emphasizes policy analysis in government organizations. Considers policy analysis in nongovernmental settings, such as nonprofit organizations and think tanks.

POLS 3100**Survey of International Terrorism**
3:3:0 Fall Odd Years

* Prerequisite(s): University Advanced Standing

A survey course of political violence and terrorism in the modern world. Studies terrorism and other forms of political violence and how they relate to fundamentalism, such as the Shiite Islamic, and Christian identity movements in the United States and Western Europe. Examines the concept of religious and political terrorism, as well as the ideologies, tactics, and organizations common to most terrorist groups.

POLS 3120**Political Parties**
3:3:0 Spring Even Years

* Prerequisite(s): (POLS 1100 or instructor approval) and University Advanced Standing

Examines the American political party system with special attention given to the history, structure, functions, and role of American political parties.

Course Descriptions

POLS 3150

US Presidency

3:3:0 **Spring Odd Years**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Studies the executive branch of American national government. Examines the basic functions, tenets, and institutions of the federal executive branch. Special attention given to the powers, roles, and structure of the presidency. Analyzes the various complexities of executive politics and policies.

POLS 3180

Public Opinion and Political Behavior

3:3:0 **Fall Odd Years**

* Prerequisite(s): University Advanced Standing

Explores the formation and role of public opinion in politics and its impact on political behavior. Topics covered are: how, and to what extent, individuals form their attitudes about politics; how researchers go about attempting to measure public opinion; the distribution and determinants of public opinion regarding a broad range of political issues; and how political attitudes affect political participation.

POLS 3200

US Congress

3:3:0 **Fall Odd Years**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Examines the legislative branch of American national government. Explores concepts of legislative theory, examining basic structure, functions, powers and roles of Congress. Gives special attention to the legislative process, constitutional structure, and modern development of federal legislature.

POLS 3210

World Diplomacy

3:3:0 **Spring Even Years**

* Prerequisite(s): POLS 2100 and University Advanced Standing

Examines diplomacy as the conduct of relations between sovereign states through the medium of officials based at home or abroad. Explores processes and procedures of the diplomatic art that focuses chiefly on the recent past but is rooted in history. Emphasizes negotiation (the most important function of diplomats), as well as unconventional diplomatic methods.

POLS 3220

Interest Groups

3:3:0 **Spring Odd Years**

* Prerequisite(s): POLS 1100 and University Advanced Standing

Provides an introduction to interest groups and their role in American politics. Examines the ways that citizens, firms, and institutions struggle to gain representation through organized interest groups in the United States. Includes the reasons why interest groups are formed, the reasons why people join organized interests groups, and the importance of leaders and leadership in attracting members and maintaining the stature of the group.

POLS 3250 (Cross-listed with: LEGL 3250)

Introduction to Law and Politics

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (POLS 1010 or POLS 1100) and University Advanced Standing

Examines the relationship between law and politics. Addresses the impact politics have on the judiciary and the strengths and weaknesses of law as a means of social order. Focuses on general issues of legal and political theory and the social and political function of law.

POLS 3300

Introduction to Public Administration

3:3:0 **Fall, Spring**

* Prerequisite(s): University Advanced Standing

Introduces basic concepts and principles in the implementation of public policy, as opposed to the formation of public policy. Includes concepts such as chain of command, hierarchy, and span of control.

POLS 3310

Introduction to Public Policy

3:3:0 **On Sufficient Demand**

* Prerequisite(s): POLS 1100, ENGL 1010, and University Advanced Standing

Provides an introduction to the process of public policy-making in the United States and to the substance of policy in areas like health policy, environmental policy, and education policy. Introduces students to the fundamental skills of policy analysis and to some of the difficult choices involved in identifying, addressing, and resolving public policy problems.

POLS 3320

Nonprofits and The Public Sector

3:3:0 **Spring Odd Years**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Explores the historical background, development, role, and purposes of nonprofit organizations. Expands awareness of the scope and breadth of the nonprofit sector in the United States, and examines the inner workings of nonprofit organizations as the foundation for further study.

POLS 3340

Public Innovation

3:3:0 **Spring Odd Years**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Presents an overview of the background, methods, and, techniques associated with public sector innovation. Equips students who wish to be innovators with the knowledge and skills necessary to imagine and implement innovative solutions to public problems.

POLS 3370

Leading Cities

3:3:0 **Spring Even Years**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Provides an introduction to and overview of what leadership is within the public sector. Examines the skills required to successfully lead and manage cities for both elected and appointed leaders (mayors, city managers, city council members, etc.). Considers related topics, including the diverse functions of a city and common challenges faced by city leaders.

POLS 3380

Local Economic Development

3:3:0 **Fall Even Years**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Introduces the context, theory, process, and practice of local economic development policy. Examines facets of local economic development such as tax increment finance, job creation, economic analysis, business expansion and retention, and economic gardening.

POLS 3390

Urban Planning

3:3:0 **Fall Odd Years**

* Prerequisite(s): University Advanced Standing

Provides a broad introduction to the field of urban planning as a profession, a process of decision-making, and a government function. Explores the limitations and benefits of planning, primarily in areas such as climate adaptation, economic development, and natural disasters.

POLS 3400

American Foreign Policy

3:3:0 **Spring**

* Prerequisite(s): POLS 1100, POLS 2100, and University Advanced Standing

Examines the development and theories of American foreign policy with special emphasis on the twentieth and twenty-first centuries. Surveys the process by which American foreign policy is formulated and examines major events and trends in policy since World War II.

POLS 3420

Islam in World Affairs

3:3:0 **Fall Even Years**

* Prerequisite(s): University Advanced Standing

Examines the history, traditions, and pillars of Islam as the latest among monotheistic religions in the world. Studies the role of women in Islam and its roots of diversity, including the historic split to Shia and Sunnis. Examines the influence of Islam in the politics and economies of Muslim nations around the world and examines the challenges presented by radical Islam for the modern world.

POLS 3480

Race in Politics

3:3:0 **Fall Odd Years**

* Prerequisite(s): University Advanced Standing

Analyzes the role of race and ethnicity in global, national, and local politics. Focuses on the ways race has been socially constructed to promote the power of some and the domination of others.

POLS 3500

International Relations of the Middle East

3:3:0 **Spring Odd Years**

* Prerequisite(s): (POLS 2100 or instructor approval) and University Advanced Standing

Covers the impact of the West on the Middle East, the Arab-Israeli wars, the rise of Islamic fundamentalist terrorist groups and regimes, the Iran-Iraq war (1980-1988), the Iraq-Kuwait-US war (1990-1991), the Impact of 9/11, as well as the foreign policies of several major states in the Middle East.

POLS 3510

Post Soviet Politics

3:3:0 **Fall Odd Years**

* Prerequisite(s): University Advanced Standing

Examines relations of the Russian Federation to its neighbors and other strategic international actors. Focuses on the dynamics of key bilateral relationships by highlighting such key areas as oil and energy, defense policy, economic policy priorities, and the role of international institutions.

POLS 356G

Comparative Politics of Central Asia

3:3:0 **Fall Odd Years**

* Prerequisite(s): ENGL 1010 and University Advanced Standing

Introduces students to the region of Central Asia with its complex nature and origins of instability. Places regional conflicts to the context of global political developments. Analyzes the historical background of its problems and challenges in combination with studies of its dynamically developing politics.

POLS 3600

International Relations of East Asia

3:3:0 **Fall**

* Prerequisite(s): University Advanced Standing

Studies the emergence, from the nineteenth century, of modern nations from the rich and varied cultures and societies of Pacific Asia. Focuses on China, Japan and Korea. Explores the historical and geographical context of the development of East and Southeast Asia. Examines the transformation between East and West as well as the persistence of tradition. Discusses the political, economic and cultural changes in a region whose economic output rivals that of any other area of the world.

POLS 3610

International Organization

3:3:0 **Fall Odd Years**

* Prerequisite(s): POLS 2100 and University Advanced Standing

Focuses on the role of international institutions in the modern state system. Analyzes procedures of international cooperation in key issue areas including: the peaceful settlement of disputes and international security, human rights, economic development, and the environment.

POLS 3620

Latin American Politics

3:3:0 **Fall Odd Years**

* Prerequisite(s): University Advanced Standing

Studies the development of modern political institutions as an outcome of colonial practice in Latin America, such as slavery and economic dependency. Examines national politics in Latin America, focusing on issues such as political power, democratization, indigenous rights, border politics, neo-colonialism, and Latin American socialism. Explores the consequences for Latin America of neo-liberalism, Eurocentrism, narco-trafficking, and globalization on the international level.

POLS 362G

Modern Chinese Political Economy

3:3:0 **Fall Odd Years**

* Prerequisite(s): University Advanced Standing

Examines the Chinese experience in economic transition and economic development in general and in several domestic sectors, which cross the conventional boundaries between political and economic analysis and through a comparative lens vis-à-vis other transition economies and developing economies. Presents the basic historical and current developments of Chinese economy. Probes the interaction between economic development and political institutions in China, and considers the international effects and implications of Chinese economic development in a critical way.

POLS 3650

Model United Nations

3:3:0 **Spring**

* Prerequisite(s): University Advanced Standing

Focuses on the issues, goals and procedures of the United Nations. Incorporates research on political, economic, and social issues of assigned countries in preparation for a simulation of the United Nations. Includes debate on important international political issues accompanied by negotiation and drafting of resolutions to address global problems.

POLS 3680

International Political Economy

3:3:0 **Spring Even Years**

* Prerequisite(s): POLS 2100 and University Advanced Standing

Focuses on the connection between politics and economics in international relations, including an overview of some of the major issues in the area of international political economy, the international trade and financial systems, the role of multinational corporations, economic development, and economic globalization.

POLS 420R

Issues and Topics in Political Science

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Surveys a specific topic in political science. Topic varies each semester. May be repeated for a maximum of 6 credits toward graduation.

POLS 4250 (Cross-listed with: HLTH 4250)

Public Health Organization and Policy

3:3:0 **Fall Even Years**

* Prerequisite(s): HLTH 3200, University Advanced Standing, and matriculation into BS Community Health or BS School Health Education; or instructor approval

Focuses on U.S. health policy and policy analysis. Describes the basic machinery of policymaking and legal processes that underpin the individual health care and public health systems. Analyzes the fundamental problems and contemporary issues in health policy and teaches students how to properly develop and analyze health policy.

POLS 4500

International Conflict and Security

3:3:0 **On Sufficient Demand**

* Prerequisite(s): POLS 2100 and University Advanced Standing

Focuses on causes and theories of conflict in international relations. Includes traditional and emerging threats to international security, as well as policy responses to them.

POLS 4610

International Law

3:3:0 **On Sufficient Demand**

* Prerequisite(s): POLS 2100 and University Advanced Standing

Focuses on theories, sources, and foundations of international law. Includes discussion of rights and duties of states, the relationship between international and domestic law, interstate settlement of disputes, and extraterritorial jurisdiction. Explores international law in the areas of human rights, the environment, and the use of force.

POLS 480R

Internship

2 to 9:1:5 to 40 **Fall, Spring**

* Prerequisite(s): POLS 1100 and University Advanced Standing

Provides opportunities for internship experience in political organizations, government offices, and non-governmental organizations. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

POLS 4850

State Legislative Internship Seminar

3:3:0 **Spring**

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): ENGL 1010

Prepares students who have been selected to serve as interns to the Utah State Legislature. Focuses on legislative behavior and organization; bill and law making; research and policy; comparative state government and politics and internship requirements.

POLS 490R

Independent Study

1 to 4:1 to 4:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Provides independent study for students unable to secure a desired class within regular semester curriculum offerings. With the approval of dean and/or department chair, student and instructor design and complete readings and other projects at the upper division level. May be repeated for a maximum of 6 credits toward graduation.

POLS 4990

Senior Seminar

3:3:0 **Fall, Spring**

* Prerequisite(s): POLS 3000, Senior standing in Political Science, and University Advanced Standing

Includes readings and discussions about fundamental political science problems and issues. Offers directed research project tailored to each student's special interests.

Course Descriptions

Portuguese (PORT)

PORT 1010 LH
Beginning Portuguese I
4:4:1 **Fall, Spring**

For those with no prior Portuguese. Emphasizes listening, speaking, and writing skills along with basic grammar, vocabulary and verb conjugations all within the cultural context of modern Brazil and Portugal. Use eclectic methodology requiring conversational exchanges. Lab access fee of \$10 applies.

PORT 1020 LH
Beginning Portuguese II
4:4:1 **Fall, Spring**
* Prerequisite(s): Students need equivalent knowledge of PORT 1010

Continuation of PORT 1010. Includes remaining first-year grammar and language concepts plus introduction to literature and cultural readings. Uses eclectic method of instruction, emphasizing conversational exchanges. Lab access fee of \$10 applies.

PORT 1050 LH
Intensive Portuguese for Spanish Speaker
5:5:1 **On Sufficient Demand**
* Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050, native speaker, or permission of instructor

Intensive overview of basic Portuguese for Spanish speakers. Practices listening, speaking, reading, and writing skills as well as discusses cultural aspects of Portuguese-speaking societies. Uses an eclectic method of instruction, emphasizing conversational exchange.

PORT 115R
Portuguese Conversation I
1:1:0 **On Sufficient Demand**

Offers novice Portuguese speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

PORT 2010 LH
Intermediate Portuguese I
4:4:1 **Fall, Spring**
* Prerequisite(s): Students need equivalent knowledge of PORT 1020

Reviews and builds grammar, reading, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Brazil, maintaining a focus on oral proficiency. Lab access fee of \$10 applies.

PORT 202G HH
Intermediate Portuguese II
4:4:0 **Fall, Spring**
* Prerequisite(s): PORT 2010

Continuation of PORT 2010. Includes remaining grammar and language concepts, literature and cultural readings. Emphasizes literary readings, conversational exchanges as well as creative writing. Lab access fee of \$10 applies.

PORT 215R
Portuguese Conversation II
1:1:0 **On Sufficient Demand**
* Prerequisite(s): Students should have equivalent knowledge of PORT 1020

Offers lower division / novice speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

PORT 3050 LH
Advanced Portuguese
3:3:0 **Fall, Spring**
* Prerequisite(s): PORT 202G, one year residency in Portuguese-speaking country, or instructor approval

For non-native Portuguese speakers with a fairly good mastery of basic Portuguese. Overviews basic Portuguese grammar with special emphasis on major concepts. Overviews Luso-Brazilian literatures and cultures. May be delivered hybrid. Lab access fee of \$10 applies.

PORT 3200
Business Portuguese
3:3:0 **Spring**
* Prerequisite(s): (PORT 3050 or equivalent knowledge) and University Advanced Standing

For those who plan to pursue a career in international business or related field, learn the business language for Portuguese, or understand Portuguese speaking cultures. Teaches Portuguese business terminology. Presents the role of Portuguese-speaking countries in a global economy. Explores how students can effectively do business with Brazilian and Portuguese companies within the framework of Lusophone cultures. Includes current materials dealing with today's issues. Taught entirely in the Portuguese language.

PORT 3430
Masterpieces of Brazilian Film
3:2:3 **On Sufficient Demand**
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): PORT 3050 recommended

Develops listening comprehension and speaking skills through discussion of Brazilian films. Enhances understanding of Brazilian culture and contemporary society through analysis of cultural and social issues presented in Brazilian cinema. Conducted entirely in Portuguese.

PORT 352G
Brazilian Culture and Civilization
3:3:0 **Fall**
* Prerequisite(s): PORT 3050 and University Advanced Standing

Explores a multitude of aspects that construct Brazilian national identity. Completers should acquire an understanding of contemporary issues, and ethnic and economic development of Brazil, as well as historical interdependence with other nations. Presentations and class instructions conducted entirely in Portuguese.

PORT 3610
Brazil through Literature and Film--1500-1900
3:3:0 **On Sufficient Demand**
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): PORT 3050 or equivalent

Examines the literary and filmic construction of Brazil 1500-1900. Requires students to reflect on the philosophical, social, and aesthetics issues that shaped Colonial and Old Republic Brazil. Conducted entirely in Portuguese, presentations and class instruction included.

PORT 3620
Modern Brazil through Literature/Music/Film--1900-1945
3:3:0 **On Sufficient Demand**
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): PORT 3050 recommended

Examines the literary, musical and filmic construction of Brazil in the beginning of the 20th century. Reflects on the aesthetics, social, and philosophical issues that shaped Brazil. Conducted entirely in Portuguese.

PORT 3630
Post-Modern Brazil through Literature/Music/Film--1945-today
3:3:0 **On Sufficient Demand**
* Prerequisite(s): University Advanced Standing
* Prerequisite(s) or Corequisite(s): PORT 3050 or equivalent

Examines the literary, musical and filmic construction of Brazil at the end of the 20th century. Reflects on the philosophical, social, and aesthetics issues that shape Brazil. Conducted entirely in Portuguese.

PORT 490R
Special Topics in Brazilian Studies
3:3:0 On Sufficient Demand
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): PORT 3050

Engages students in critical analysis of discourse in Brazil. Develops language skills required to such analysis and specific to the topic. Possible topics include Brazilian Film, Brazilian Music, Lusophone Literature, Women's Texts, Advanced Business Portuguese. Conducted entirely in Portuguese. May be repeated for up to nine credit hours towards graduation.

Paralegal Studies (PRLG)

PRLG 1000 SS
Introduction to American Law
3:3:0 Fall, Spring

Studies the relationship between social values, culture and the law, with particular emphasis on current events. Examines the structure of the American court system, its processes, and the American constitutional framework and federalism, methods of alternative dispute resolution, and a survey of major areas in American law, including torts, business and contracts, intellectual property, family law and estate planning. Lab access fee of \$32 for computers applies.

PRLG 2000
Introduction to Paralegal Studies
3:3:0 Fall, Spring
 * Prerequisite(s) or Corequisite(s): PRLG 1000

Introduction to the legal profession and law office environment. Introduction to the work performed by paralegals, regulation of the paralegal profession, paralegal professional organizations, and lawyer and paralegal professional ethics. Examines in depth the issues of paralegal licensing and the unauthorized practice of law. Introduction to the legal system, the sources of American law, and to legal research using Casemaker. Lab access fee of \$32 for computers applies.

PRLG 2100
Civil Litigation I
3:3:0 Fall, Spring
 * Prerequisite(s): ENGL 1010; PRLG 2000

Overviews court system, emphasizing the Utah State Courts, rules of procedure for civil, criminal and appellate court processes. Reviews all phases of litigation, from pre-litigation and strategic planning through post-judgment processes. Resolves questions of jurisdiction, venue, choice of law, litigation strategy, discovery, and other key processes.

PRLG 2200
Legal Research and Writing I
3:3:0 Fall, Spring
 * Prerequisite(s): ENGL 1010; PRLG 2000
 * Prerequisite(s) or Corequisite(s): PRLG 1000

Introduces the student to the legal system and legal sources including case law, statutory law, administrative regulations, and secondary sources. Provides basic instruction in print research in the law library and to electronic research using Westlaw and government resources. Emphasizes legal analysis and introduces students to legal writing. Lab access fee of \$32 for computers applies.

PRLG 2300
Technology in Law Practice
3:3:0 Fall, Spring
 * Prerequisite(s): PRLG 2100

Introduces computer technology and its application within law practice. Teaches the use of computers in litigation support, case management applications and production of legal documents. Includes lab experience using computers and simulated case problems. Completers should be qualified to work in jobs requiring case management and automated litigation support. Lab access fee of \$32 for computers applies.

PRLG 281R
Internship
1 to 8:0:5 to 40 Fall, Spring, Summer

Designed for paralegal majors to provide on-the-job work experience on a paid basis that will utilize the student's skills and abilities in the fields of law, law office, or other approved law related situations. Requires a portfolio of acquired work experience and enhanced skills. Includes student, employer, and coordinator evaluations; on site coordinator visits; written assignments; and oral presentations. Provides experience in formulating and completing individualized work experience objectives. May be repeated for a maximum of 6 credits toward graduation. May be graded credit/no credit.

PRLG 3100
Civil Litigation II
3:3:0 Fall, Spring
 * Prerequisite(s): PRLG 2100 and University Advanced Standing

Focuses on generation and creation of work product required in a civil case under the Utah and Federal Rules of Civil Procedure. Emphasizes initial pleadings, civil discovery processes, and pre-trial motion practice.

PRLG 3300
Criminal Law and Procedure
3:3:0 Fall, Spring
 * Prerequisite(s): PRLG 1000 and University Advanced Standing

Examines the legal and procedural aspects of crime, including the elements and categories of criminal acts and jurisdictional considerations. Studies the procedure of criminal prosecution according to the Federal Rules of Criminal Procedure, from both a prosecution and defense perspective, including constitutional assurances, investigations, case preparation, motion processes, trials and appeals.

PRLG 4200
Legal Research and Writing II
3:3:0 Fall, Spring
 * Prerequisite(s): PRLG 2100; PRLG 2200; University Advanced Standing

Reviews basic legal research in print resources and on Westlaw and government resources. Continues development of legal research and writing skills. Introduces student to writing office memoranda and select appellate documents with continued emphasis on legal analysis. Lab access fee of \$32 for computers applies. Course fee of \$51 for software and materials applies.

PRLG 4400
Family Law
3:3:0 Fall
 * Prerequisite(s): PRLG 2100; PRLG 2200; University Advanced Standing

Covers family issues and drafting of legal documents relating to domestic litigation. Explores case law related to the marriage contract, divorce, adoption, guardianships, paternity, illegitimacy, and prenuptial agreements. Emphasizes family law document production in domestic cases. Lab access fee of \$32 for computers applies.

PRLG 458R
Advanced Special Topics
3:3:0 Spring
 * Prerequisite(s): University Advanced Standing; PRLG 2100; PRLG 2200

Provides exposure to emerging topics of current interest in the Legal field. Topics vary each semester. May apply a maximum of 12 credits toward graduation.

PRLG 481R
Internship
1 to 8:0:5 to 40 Fall, Spring, Summer
 * Prerequisite(s): Approval Paralegal Director and University Advanced Standing; PRLG 2100, PRLG 2200, PRLG 2300

Provides actual, on-the-job work experience in a non-paying (volunteer) basis in a law office or other approved law-related situation. Emphasizes successful work experience, especially identifying and solving problems. Completers should be qualified to work in the Paralegal profession. May be repeated for a maximum of 8 credits. May be graded credit/no credit.

Automotive Power Sports (PST)

PST 1110
Two Stroke Engine Systems
2:2:0 Fall, Spring
 * Prerequisite(s): Approval Paralegal Director and University Advanced Standing; PRLG 2100, PRLG 2200, PRLG 2300

Studies the theory, diagnosis, and repair of two stroke engines. Emphasizes design and capabilities of the two stroke engine. Includes engine rebuilding techniques and principles, basics of engine fasteners, sealants, and tightening methods.

Course Descriptions

PST 1115

Two Stroke Engine Systems Lab

1:0:3 **Fall, Spring**

* Corequisite(s): PST 1110

Enhances the technical theory covered in the PST 1110 course. Provides an engine laboratory experience by following industry task lists for two stroke engine systems. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual vehicles and vehicle systems of major manufacturers in completing the task lists.

PST 1120

Constant Velocity Transmissions and Drive Systems

2:2:0 **Fall, Spring**

* Corequisite(s): PST 1125

Studies the theory, operation, diagnosis, and repair of Continuously Variable Transmissions (CVT) in snowmobiles, ATVs, and UTVs. Includes component identification and theory of tuning the CVT for optimal performance. Covers driveshaft and constant velocity boot inspection, diagnosis, and replacement.

PST 1125

Constant Velocity Transmissions and Drive Systems Lab

1:0:3 **Fall, Spring**

* Corequisite(s): PST 1120

Enhances the technical theory covered in the PST 1120 course. Provides a transmission laboratory experience by following industry task lists for continuously variable transmission (CVT) systems. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual vehicles and vehicle systems of major manufacturers in completing the task lists.

PST 1215

Four Stroke Small Engine Systems Lab

1:0:3 **Fall, Spring**

* Corequisite(s): PST 1210

Enhances the technical theory covered in the PST 1210 course. Provides an engine laboratory experience by following industry task lists for four stroke small engine systems. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual vehicles and vehicle systems of major manufacturers in completing the task lists.

PST 2110

Snowmobile Systems

2:2:0 **Fall, Spring**

* Corequisite(s): PST 2115

Studies the operation, diagnosis, and repair of snowmobile systems. Emphasizes design, capabilities, and uses of the snowmobile system. Includes instruction on individual systems and how these systems interrelate into the platform as a whole. Stresses safety procedures. Covers advanced repair techniques.

PST 2115

Snowmobile Systems Lab

1:0:3 **Fall, Spring**

* Corequisite(s): PST 2110

Enhances the technical theory covered in the PST 2110 course. Provides a laboratory experience for snowmobiles by following industry task lists for snowmobile systems. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual vehicles and vehicle systems of major manufacturers in completing the task lists. Covers advanced repair techniques. Stresses safety procedures.

PST 2120

ATV and UTV Systems

2:2:0 **Fall, Spring**

* Corequisite(s): PST 2125

Studies the history, operation, diagnosis, and repair of ATV and UTV systems. Emphasizes design, capabilities, and uses of the ATVs and UTVs. Includes instruction on individual systems and how these individual systems interact on the machine as a whole. Stresses safety procedures. Covers advanced repair techniques.

PST 2125

ATV and UTV Systems Lab

1:0:3 **Fall, Spring**

* Corequisite(s): PST 2120

Enhances the technical theory covered in the PST 2120 course. Provides a laboratory experience for ATV and UTVs by following industry task lists for ATV and UTV systems. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual vehicles and vehicle systems of major manufacturers in completing the task lists. Covers advanced repair techniques. Stresses safety procedures.

PST 2130

Small Motorcycles and Scooters

2:2:0 **Fall, Spring**

* Corequisite(s): PST 2135

Studies the history, operation, diagnosis, and repair of small motorcycles including dirt bikes and dual purpose motorcycles and scooters. Emphasizes design, capabilities, and uses of the motorcycle systems. Examines motorcycle systems and how these systems interact. Stresses safety procedures.

PST 2135

Small Motorcycles and Scooters Lab

1:0:3 **Fall, Spring**

* Corequisite(s): PST 2130

Enhances the technical theory covered in the PST 2130 course. Provides a laboratory experience for small motorcycles by following industry task lists for off-road bikes and dual purpose motorcycles and scooters. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual motorcycles and scooters and systems of major manufacturers in completing the task lists. Stresses safety procedures.

PST 2230

Street and Sport Motorcycles

2:2:0 **Fall, Spring**

* Corequisite(s): PST 2235

Studies the history, operation, diagnosis, and repair of larger street motorcycles including cruiser style and sport bikes. Emphasizes design, capabilities, and uses of the complex street motorcycle systems. Includes advanced diagnosis and repair of complex street bike systems. Examines motorcycle systems and how these systems interact. Stresses safety procedures.

PST 2235

Street and Sport Motorcycle Lab

1:0:3 **Fall, Spring**

* Corequisite(s): PST 2230

Enhances the technical theory covered in the PST 2230 course. Provides a laboratory experience for larger street motorcycles by following industry task lists for larger street motorcycles including cruiser style and sport bikes. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual vehicles and vehicle systems of major manufacturers in completing the tasks. Covers advanced repair techniques. Stresses safety procedures.

PST 2240

Outdoor Power Equipment

2:2:0

* Corequisite(s): PST 2245

Studies the operation, diagnosis, and repair of the most popular segments of the outdoor power equipment market. Emphasizes design, capabilities, and uses of lawn mowers, chainsaws, trimmers, edgers, tillers, snow blowers, and generators. Includes instruction on basic maintenance and reliability of these units. Teaches rechargeable and electric outdoor power equipment. Stresses instruction of safety procedures.

PST 2245

Outdoor Power Equipment Systems Lab

1:0:3

* Corequisite(s): PST 2240

Enhances the technical theory covered in the PST 2240 course. Provides a laboratory experience for outdoor power equipment by following industry task lists for the most popular segments of the outdoor power equipment market. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual equipment of major manufacturers in completing the tasks. Includes the study of rechargeable and electric outdoor power equipment. Stresses safety procedures.

PST 2250

Personal Watercraft

2:2:0

* Corequisite(s): PST 2255

Studies the history, operation, diagnosis, and repair of personal watercraft systems. Includes the study of their unique drive systems and advanced cooling systems. Covers advanced diagnosis and repair of complex personal watercraft systems. Discusses hull repair and graphics installation. Stresses proper safety procedures.

PST 2255**Personal Watercraft Systems Lab****1:0:3**

* Corequisite(s): PST 2250

Enhances the technical theory covered in the PST 2250 course. Provides a laboratory experience for personal watercraft by following industry task lists for the most popular segments of the personal watercraft market. Emphasizes demonstrations, observations, and hands-on participation. Utilizes actual equipment of major manufacturers in completing the tasks. Covers advanced repair techniques of complex personal watercraft systems. Stresses safety procedures.

Psychology (PSY)

PSY 1010**General Psychology****3:3:0****Fall, Spring, Summer****SS**

An introductory course in modern scientific psychology. Covers major domains of scientific psychology including biological foundations, sensations, perception, learning, motivation, human development and abnormal psychology. Examines major psychological and professional applications.

PSY 101H**General Psychology****3:3:0****Fall****SS**

Covers major domains of scientific psychology including biological foundations, sensation and perception, learning, motivation, human development, and abnormal psychology. Examines major psychological and professional applications. Students will be expected to write at least two papers and work collaboratively.

PSY 1100**Human Development Life Span****3:3:0****Fall, Spring, Summer****SS**

Explores human development from conception and birth to old age and death. Examines growth and developmental patterns and describes the characteristics of various developmental stages. Studies the major physical, cognitive and psychosocial themes and issues of human development. Includes genetics, prenatal development, birth, early/middle/late childhood, adolescence, early/middle/late adulthood, and death.

PSY 1250**Psychology Applied to Modern Life****3:3:0**

* Prerequisite(s): PSY 1010 with grade C- or higher and (ENGL 1010 with a C+ grade or higher)

Examines knowledge about key concepts and findings from the science of psychology. Applies effective strategies, grounded in psychology, to their own lives in areas that will help them to be healthier and happier. Key topic areas include: stress, social influences and interpersonal communication, relationships and life transitions, and mental and physical health.

PSY 2250**Psychology of Interpersonal Relationships****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): ENGL 1010 (with a C- grade or higher) and PSY 1010 (with a C- grade or higher)

Integrates cognitive psychological theory in an experiential setting to build personal communication skills. Helps students better understand their interactions with others. Teaches practical skills used in personal, professional, and social relationships. Studies problem-solving models and conflict resolution methods.

PSY 2400**Positive Psychology****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): PSY 1010 (grade of C- or higher) and ENGL 1010 (grade of C- or higher)

Provides an overview of the scientific study of human strengths and virtues. Examines topics such as happiness, optimism, gratitude, altruism, forgiveness, human strengths, optimal performance, and personal fulfillment. Knowledge gains are reinforced with personalized experiential learning activities.

PSY 2710**Introduction to Brain and Behavior****3:3:0**

* Prerequisite(s): PSY 1010 and ENGL 1010 with a C+ or higher. ZOOL 1090 recommended.

Introduces neuroanatomy and neurophysiology. Includes how neurons communicate to coordinate various functions and behaviors. Addresses research methods used to study the brain and the mechanisms to control functions and behaviors.

PSY 275R**Survey of Current Topics****1 to 3:1 to 3:0****On Sufficient Demand**

* Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010) and ENGL 1010 with a C+ grade or higher

Presents selected topic in Psychology and will vary each semester. Approaches subjects from cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

PSY 2800 (Cross-listed with: HLTH 2800)**Human Sexuality****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): ENGL 1010

Interdisciplinary course in human sexuality, exploring topics in biology, health, psychology, and sociology. Introduces basic concepts of human sexuality, including anatomy, reproduction, and sexual response across the life-cycle. Studies gender roles, sexual orientation, dysfunction, and sexually transmitted disease. Examines sexual behavior from the perspective of ethics, religion, the law, and education. Students assess their sexual attitudes and should be able to make responsible sexuality decisions.

PSY 289R**Beginning Research Experience****1 to 3:1 to 3:0**

* Prerequisite(s): PSY 1010 with a C or higher; ENGL 1010 with a C+ or higher; Instructor approval

Beginning course on research in psychology. Explores psychological literature to investigate topics of interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects will vary based on the student's needs and interests but may include literature searches, materials creation, data collection, or other options as approved by the instructor. May be repeated for a maximum of six credits toward graduation.

PSY 3030**Research Methods for Psychology****4:4:0**

* Prerequisite(s): (BESC 3010 or PSY 3010 with a C- or higher), (ENGL 2010 or ENGL 2020 with a C+ or higher), and University Advanced Standing

Explains the logic of the classical true experiment and how it permits causal inferences. Compares and contrasts the benefits and drawbacks of quasi-experimental and correlational research designs. Includes the design of an empirical psychological study. Covers compliance with guidelines for ethical research as codified in law and the American Psychological Association's ethics code. Requires collection, analysis, and presentation of quantitative data for an empirical psychological study. Includes a lab.

PSY 3100**Psychology of Gender****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): PSY 1010 (with a C- grade or higher) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

For Behavioral Science majors and others interested in gender issues from a psychological perspective. Examines the topic of gender behaviors and attitudes that relate to (but are not entirely congruent with) biological sex. Discusses biological influences on gender, gender differences, gender development, and the influence of gender on various dimensions of daily life.

PSY 3105**Health Psychology****3:3:0**

* Prerequisite(s): (PSY 1010 or PSY 1100) with grade C- or higher or (Community Health major and HLTH 2800 or HLTH 3260) with grade C- or higher, (ENGL 2010 or ENGL 2020) grade C+ or higher, and University Advanced Standing

Examines underlying biological, psychological, and social factors, that interact and contribute to illnesses. Examines how beliefs, attitudes, and lifestyles contribute to overall health. Includes preventative strategies and techniques. Introduces motivational strategies to work productively with patients in healthcare settings.

Course Descriptions

PSY 3200

Infancy and Childhood Development

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (PSY 1010 or PSY 1100) with grade C- or higher or (Community Health major and HLTH 2800 or HLTH 3260) with grade C- or higher, (ENGL 2010 or ENGL 2020) grade C+ or higher, and University Advanced Standing

Teaches major theories of infant and child development. Identifies the sequence of development including physical, mental, and emotional conditions. Studies special needs and exceptional children. Examines parenting styles. Emphasizes development of the 'whole child'.

PSY 3210

Adolescent Development

3:3:0 Fall, Spring, Summer

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or ENGL 2020 with C- grade or higher) and University Advanced Standing

Focuses on physical, social, mental and emotional development of adolescents. Examines current research regarding optimal conditions for healthy maturation and separation/individuation from parents. Addresses adjustment problems, prevention, and remedies.

PSY 3220

Adult Development

3:3:0 Fall, Spring

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or ENGL 2020 with C+ grade or higher) and University Advanced Standing

Studies adult developmental stages (end of adolescence through old age). Examines stable patterns and predictable changes in physiological and psychological and cognitive processes, emphasizing current research in optimal adult functioning.

PSY 3300

Motivation and Emotion

3:3:0

* Prerequisite(s): PSY 1010, (ENGL 1010 with a C+ or higher), and University Advanced Standing

Examines motivation and emotion that underlie thought and behavior from a variety of perspectives. Explores the various theoretical approaches to motivation and emotion such as biological, phenomenological, cognitive, developmental and social constructivist approaches. Examines the historical background of motivation and emotion research, as well as a number of current applied motivational approaches.

PSY 3400

Abnormal Psychology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Foundation course for psychology majors. Examines the psychology of abnormal behavior, historical explanations and current biological and psychological theories of abnormal behavior. Emphasizes the description of mental disorders according to the American Psychiatric Association Diagnostic and Statistical Manual. May be delivered online.

PSY 3420

Cognitive Psychology

3:3:0 Spring, Summer

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing

Introduces students to the core concepts, theoretical perspectives, empirical findings, and historical trends in cognitive psychology. Includes classical and operant conditioning, modal model of memory, and higher cognitive processes. Explores animal as well as human research.

PSY 3430

Psychopharmacology

3:3:0 Spring

* Prerequisite(s): PSY 2710 (with C- grade or higher) or (ZOOL 2320 and ZOOL 2420 with C- grade or higher in both courses) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher); University Advanced Standing

Addresses basic principles of nervous system function with emphasis on communication between nerve cells. Focuses on therapeutic drugs as well as drugs of abuse to include mechanisms of action and behavioral effects.

PSY 3450

Behavioral Neuroscience

4:3:3 Fall

* Prerequisite(s): PSY 2710 (with C- grade or higher) or (ZOOL 2320 and ZOOL 2420 with C- grade or higher in both courses) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher); University Advanced Standing.

Identifies major interactions between physiology and behavior. Covers physiological analysis, structures, and functions of the nervous system. Investigates topics including sensory and motor function, states of consciousness, sexual behavior, psychopathology, learning and memory. Course Lab fee of \$10 for supplies applies.

PSY 3460

Personality Theory

3:3:0 Fall, Spring, Summer

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Introduces the basic psychological theories attempting to answer the question 'What is Personality?' Examines the scientific study of the uniqueness of each of us as individuals. Explores how individuals develop personality similarities as well as differences by examining classical personality theories, societal influences, cultural variations, behavioral genetics, anatomy and biochemistry, sex and gender differences and family function. May be delivered hybrid and/or online. Course fee of \$15 for materials. Canvas Course Mats \$66/McGraw

PSY 3480

Principles of Learning

4:3:3

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing

Examines major concepts, theoretical perspectives, empirical findings, and historical trends in the scientific study of behavior. Focuses on application of psychological principles to personal, social, and organizational issues, as appropriate. Stresses use of critical and creative thinking, skeptical inquiry, and the scientific approach to solve problems related to behavior.

PSY 3490

Sensation and Perception

4:3:3

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or 2020 with a C+ grade or higher) and University Advanced Standing.

Provides a foundation in how sensory systems interpret the world around us. Explores each of the primary sensory systems by defining the physical energy that is detected. Examines how that energy is transduced into neural impulses, and samples how aspects of that information are encoded to provide a representation of our world. Takes a neuroscientific approach to the topic, beginning with an overview of the nervous system including the organization of the brain and spinal cord, how neurons work and how neurons communicate with each other. Course Lab fee of \$10 for supplies applies.

PSY 350G

Social Psychology

3:3:0

* Prerequisite(s): PSY 1010 (with grade C- or higher) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Studies the ways in which social context influences behavior. Reviews both social and psychological research. Includes culture and personality theory. Presents a multi-disciplinary approach to understanding human behavior. Requires a research project to observe and report individual or group behavior in a real life setting. May be delivered hybrid.

PSY 3710

Introduction to Forensic Psychology

3:3:0 Spring

* Prerequisite(s): PSY 1010 (with grade C- or higher) and (ENGL 2010 or ENGL 2020 with a C+ or higher) and (PSY 3400 or PSY 3500 with a C- or higher) and University Advanced Standing

Introduces the complex field of forensic psychology which involves the overlap between the science of psychology and the law. Builds a basic understanding of the psychological principles and concepts that are part of the legal system. Highlights how the science of psychology potentially contributes to improvements and changes in the legal system. Outlines the role of forensic psychologists with regard to the legal system. Ideas regarding potential careers in the field are emphasized. Provides students the opportunity to customize course activities to suit their learning needs and styles from a variety of choices.

PSY 3850

Psychology of Good and Evil

3:3:0 On Sufficient Demand

* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Provides an integrated approach to understanding the roots of good and evil in human behavior. Explores theories and studies of human caring and destructiveness. Analyzes and develops psychological explanation of why individuals choose different courses of action under similar circumstances. Explores such concepts as attachment and parental discipline, bystander phenomena, response to authority, genocide, killing during war, group identity, bullying, views of the other and racism, forgiveness and reconciliation, and psychopathology and the biology of emotion.

PSY 4010

Experimental Psychology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing

Explores various experimental research designs (true experimental and quasi-experimental), emphasizing application and evaluation. Requires conducting an original psychological experimental research project.

PSY 4150

Tests and Measurements

3:3:0 Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010 (with grade C- or higher), and University Advanced Standing

Introduces the history of psychological tests, examines tests in use at the present time and considers the appropriate roles of psychological testing in modern society. Studies individual and group assessment in the areas of intelligence, aptitude, achievement, personality and interest. Critically evaluates tests and other instruments of measurement for validity and reliability.

PSY 4300

Introduction to Counseling and Psychotherapy

3:3:0 Fall, Spring, Summer

* Prerequisite(s): PSY 1010 (with grade C- or higher) and PSY 3400 (with a C- grade or higher) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Surveys concepts and practices of major therapeutic systems. Introduces students to the major psychotherapeutic models. Addresses basic counseling issues including ethics and professionalism. Develops skills in relationship development, interviewing, initial assessment and intake procedures. May be delivered online.

PSY 4400

Introduction to Group Psychotherapy

3:3:0

* Prerequisite(s): PSY 1010 (with C- grade or higher), PSY 3400 (with grade C- or higher), (ENGL 2010 or ENGL 2020 with a C+ or higher), and University Advanced Standing

Discusses group therapy theory, research applied to client assessment and outcomes, legal and ethical issues. Learning activities will include screening, assessment, treatment, evaluation, and termination of group members. May be delivered online.

PSY 4461 (Cross-listed with: PHIL 4461)

Moral Psychology

3:3:0 On Sufficient Demand

* Prerequisite(s): (PHIL 2050 or PHIL 205G or PHIL 205H or PSY 1010 or PSY 101H) and University Advanced Standing

Analyzes questions about how people engage in moral thinking and in moral behavior from the perspectives of the philosophy of mind, ethics and psychology. Explores topics such as virtue and character, reason and passion, altruism and egoism, agency and responsibility, and moral intuitions.

PSY 4500

History and Systems of Psychology

3:3:0

* Prerequisite(s): PSY 1010 (with C- grade or higher) and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Identifies key contributors, historical systems and theories within the field of psychology. Includes contributions to present knowledge of affect, behavior, and cognition. Stresses similarities and differences between theories. Especially for students planning to take the Advanced Psychology Subject Test portion of the GRE.

PSY 4690

Human Intelligence

3:3:0

* Prerequisite(s): PSY 1010 (with grade C- or higher), BESC 3010 (with grade C- or higher), and (ENGL 2010 or 2020 with a C+ grade or higher); University Advanced Standing

Explores theories about human intelligence and how intelligence impacts health, social, and psychological outcomes. Considers how cognitive and biological variables are related to individual differences in human intelligence.

PSY 475R

Current Topics in Psychology

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): PSY 1010 and (ENGL 2010 or ENGL 2020 with a C+ grade or higher) and University Advanced Standing

Presents selected topic in Psychology and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for 9 credits toward graduation.

PSY 482R

Internship Seminar

1:1:0

* Prerequisite(s): University Advanced Standing
* Corequisite(s): BESC 481R

Provides integration of classroom learning with learning that takes place in an on-site internship. To be taken concurrently with BESC 481R, Senior Internship. May be repeated for a maximum of 8 credits toward graduation.

PSY 483R

Psychology Internship

1 to 3:1 to 3:0

* Prerequisite(s): PSY 1010 with grade C- or higher; BESC 3010 with grade C- or higher; and University Advanced Standing

Allows psychology students with non-clinical orientation to receive psychology credits for interning in a governmental, corporate, or private agency apart from their regular employment. Provides practical and research experience over the course of the 15 week semester. Requires professional supervision. Internships approved by faculty and written contracts must be signed. May be repeated for a maximum of 8 credits toward graduation.

PSY 4850

Introduction to Pedagogy

3:3:0

* Prerequisite(s): PSY 1010; (ENGL 2010 or ENGL 2020 with a C+ or higher); instructor approval; and University Advanced Standing

Builds a foundation for teaching at the college level through the study of best practices in college pedagogy via primary sources, review papers, and expert perspectives. Applies pedagogical knowledge through the delivery of multiple guest lectures on campus after creating appropriate course materials.

PSY 488R

Advanced Research Experience in Psychology

1 to 3:1 to 3:0

* Prerequisite(s): PSY 1010 with a C grade or higher; ENGL 2010 or ENGL 2020 with C+ grade or higher; University Advanced Standing; Instructor approval

Expands research experience by either (1) significantly assisting on a faculty member's research project or (2) carrying out an independent research project of the student's design under faculty mentorship. May be repeated for a maximum of 6 credits toward graduation.

PSY 490R

Independent Studies

1 to 3:1 to 3:0 On Sufficient Demand

* Prerequisite(s): Instructor approval, department chair approval, and University Advanced Standing; for Behavioral Science Bachelor Degree students only

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of 6 credits.

Recreation (REC)

REC 1350

Scuba Diving I

1:5:1.5

Fall, Spring, Summer

* Prerequisite(s): Must be able to swim 100 yards

Teaches basic scuba diving techniques, scuba safety and use of scuba equipment in an indoor swimming pool. Satisfies requirement for Open Water Certification. Uses the Professional Association for Diving Instructions manual. Course fee of \$120 for support, equipment applies.

REC 1351

Scuba Diving II

1:5:1.5

Fall, Spring

* Prerequisite(s): REC 1350 or instructor approval

Provides advanced knowledge of scuba techniques. Teaches skills beyond that of the Open Water Course. Teaches natural navigating, compass navigating, light salvage, deep diving, and night diving. Reviews physics laws pertaining to diving and safety procedures. Uses advanced equipment such as compasses and air lift bags. Stresses safety. Uses materials provided by PADI. Taught on block only. Course fee of \$120 for support, equipment applies.

Course Descriptions

REC 1500 Canoeing I

1:5:1.5 **Fall, Summer**

Teaches basic canoeing techniques including safety, technical information, equipment, paddling skills, and canoe maneuvering. Requires overnight camping. Requires the ability to swim 100 yards without stopping on the first day of class. Course fee of \$88 for transportation, equipment applies.

REC 1501 Canoeing II

1:5:1.5 **On Sufficient Demand**

* Prerequisite(s): REC 1500 or Instructor Permission

Prepares students to qualify to become instructors who will teach on water up to and including Class I on the International Scale of River Difficulty. Prepares students to teach the American Canoe Association's Intro to Canoe course on flat water, and the Basic River Canoe course in a river environment and to teach students fundamental river paddling skills including boat handling, paddling technique, identifying hazards, river reading and self-rescues in moving water.

REC 1505 Whitewater Kayaking I

1:5:1.5 **Fall, Summer**

Teaches basic kayaking skills to the beginning kayaker. Includes roll techniques, paddle strokes, eddy turns, ferrying, river hazards, and rescue techniques. Requires the ability to swim 100 yards without stopping first day of class. Course fee of \$150 applies for transportation, equipment applies.

REC 1506 Whitewater Kayaking II

1:5:1.5 **On Sufficient Demand**

* Prerequisite(s): REC 1505

Builds on whitewater skills initially taught in Whitewater Kayaking I. Develops the skills and knowledge to assist in instruction and river rescue. Prepares students to help others learn to kayak, preparing them for ACA whitewater certification.

REC 1512 Fly Tying I

1:5:1.5 **On Sufficient Demand**

For students interested in learning or perfecting fly tying skills. Discusses and demonstrates necessary fly tying tools, materials, and knots. Introduces aquatic entomology. Studies various fly types including wet fly, dry fly, nymph, and streamer. Includes hands-on experience. Course fee of \$10 for materials applies.

REC 1513 Fly Casting I

1:5:1.5 **Fall, Spring, Summer**

For students interested in learning or perfecting fly casting skills. Studies types and classification of fly rods and reels. Teaches the physics of casting and casting techniques. Includes hands-on experience. Course fee of \$10 applies for materials, equipment applies.

REC 1516 Ropes Course and Teambuilding

1:5:1.5 **On Sufficient Demand**

Provides participants with the opportunity to participate in a group and personal development process which utilizes the ropes course as an educational tool. Consists of 3 phases. Phase I - game and exercises designed to help participants get to know and feel at ease with each other. Phase II - group initiative games/ problem solving activities which develop group communication skill, cooperation, and problem solving ability. Phase III - Ropes Course activities/individual challenge which allows class members to test their physical capabilities and individual limits. Course fee of \$80 for transportation, equipment, and support.

REC 1521 Indoor Rock Climbing I

1:5:1.5 **Fall, Spring**

Teaches basic rock climbing skills to the beginning indoor rock climber. Includes knot tying, belaying, rappelling, fixed anchors, beginning indoor climbing, and rescue techniques. Prepares student for enjoyment of indoor climbing facilities, and introduces concepts related to sport climbing. Course fee of \$90 for support, equipment applies.

REC 1522 Indoor Rock Climbing II

1:5:1.5 **Fall, Spring**

* Prerequisite(s): REC 1521

Builds on skills and experiences gained in Indoor Rock Climbing I. Focuses on lead climbing in the indoor sport context with emphasis on higher skill development, onsite and red point techniques. Course fee of \$90 applies for support, equipment applies.

REC 1525 Mountaineering

1:5:1.5 **Summer**

* Prerequisite(s): REC 1535, REC 1527

Covers mountaineering subjects including hiking, rock climbing, mountain camping, and mountain survival. Requires good health and fair physical condition in order to enjoy the class. Provides technical climbing and safety equipment. Students provide camping equipment (this may be rented at a low cost at the Outpost on campus), boots or shoes, clothing and leather gloves suitable for hiking and climbing. Taught on block only. Course fee of \$70 for transportation, materials, and equipment applies.

REC 1527 Rock Climbing I

1:5:1.5 **Fall, Spring, Summer**

Teaches basic rock climbing skills to the beginning rock climber. Includes knot tying, belaying, rappelling, top-rope anchors and site management, beginning lead climbing, and rescue techniques. Course fee of \$20 for equipment applies.

REC 1528 Rock Climbing II

1:5:1.5 **Fall**

* Prerequisite(s): REC 1527 or Instructor Approval

Teaches intermediate rock climbing skills. Includes placing passive and active anchors on simulated lead climbs, multi-pitch belaying and rappelling. Teaches self- and partner-rescuing, ascending, route finding, crack and face climbing techniques, rock shoe resoling, and an introduction to aid climbing. Course fee of \$90 for transportation, equipment applies.

REC 1529 Rock Climbing III

2:2:0 **On Sufficient Demand**

* Prerequisite(s): REC 1528 or instructor approval

Teaches advanced rock climbing skills. Includes stretching and injury prevention, advanced training techniques, advanced rescuing, advanced crack, face, and roof climbing techniques. Teaches placing passive and active protection on difficult (5.9-5.11) simulated lead climbs, advanced rescuing, advanced aid climbing on simulated leads, marginal protection and expansion bolt drilling and placement, stretching and injury prevention, and advanced training techniques.

REC 1530 Primitive Survival Skills

1:5:1.5 **On Sufficient Demand**

Focuses on primitive skills and how they can help increase chances of survival. Covers basic survival, fire building, shelters, stone tool replication, edible plant identification, geographic implications, weather prediction, historic importance of survival, timeline of lost survival techniques, Leave No Trace principles. Course fee of \$88 for transportation, equipment, and support applies.

REC 1535 Backpacking

1:5:1.5 **Fall, Spring, Summer**

* Prerequisite(s): Ability to carry a 40 lbs pack for 15-25 miles

Covers the basic aspects of backpacking, camping, and wilderness travel. Includes labs, lectures, demonstration, audio-visual and extended field trips. Teaches basic components of backpacking and lifelong values of outdoor recreation. Requires multi-night backpacking trip. Course fee of \$88 for transportation, equipment, and support applies.

REC 1542 Wilderness First Responder

2:2:0 **Summer**

Teaches advanced emergency care specific to situations encountered in a wilderness context. Prepares students for certification exam in Wilderness First Responder (WFR) or Wilderness Emergency Medical Technician Module (WEMT). Experiential Learning Credit must be from a WFR course with at least 72 hrs of contact time.

REC 1550

Mountain Biking

1:5:1.5 **Fall, Spring, Summer**

* Prerequisite(s): Ability to carry a 40 lbs pack for 15-25 miles

Provides the students with knowledge of cycling techniques when traveling off the pavement. Teaches bicycle maintenance and tuning. Includes several off-road rides. Stresses the enjoyment and lifetime benefits of mountain biking riding. Taught on block only. Course fee of \$60 for transportation, equipment applies.

REC 1580

Kayak Touring

1:5:1.5 **Fall, Spring**

* Prerequisite(s): Must be able to swim 100 yards without stopping

Introductory course which teaches basic skills necessary to safely enjoy flat water (non-tidal) kayak touring. Teaches equipment selection, strokes, safety and rescue techniques. Field trip required for course completion. Course fee of \$84 for transportation, equipment applies.

REC 1600

Winter Exploration

1:5:1.5 **Spring**

* Prerequisite(s): REC 1535

Teaches basics of snowshoeing, cross-country skiing, and winter camping, including Leave No Trace, cooking, staying warm, and building shelters. Covers risks and hazards of the winter environment. Requires overnight camping. Course Lab fee of \$45 course fee for equipment applies.

REC 1605

Skiing I

1:5:1.5 **Spring**

For the beginning skier. Covers basic skiing concepts including straight runs, stops, turns, traverses, and beginning parallel. Includes demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1606

Skiing II

1:5:1.5 **Spring**

For the intermediate skier. Designed for those with basic ski skills and who would like to improve their skiing technique. Instruction is given in parallel skiing over bumps and flat terrain, hockey stops, moguls and traversing steep terrain. Uses demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1607

Skiing III

1:5:1.5 **On Sufficient Demand**

For the advanced skier. Covers skiing on all types of terrain and conditions. Includes racing, powder, moguls, trick skiing and touring. Uses demonstration and participation. Grading is based on attendance. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Students are required to have own equipment and purchase a half-day pass each ski day.

REC 1615

Snowboarding

1:5:1.5 **Spring**

Provides a fun challenge to snow boarders of every ability level, starting with the beginning novice to the advanced boarder. Gives instruction in straight runs, stops, turns (falling leaf, heel edge, toe edge), and carving. Includes skill demonstration and student participation. Grading is based on attendance, participation, demonstrating skills, and tests. Lessons are at the Sundance Ski Resort. (Transportation is not provided.) Uses UVU and Sundance instructors. Requires students to have their own equipment and purchase a half-day pass each ski day.

REC 1621

Ski Instructor Training

1:5:1.5 **On Sufficient Demand**

For advanced skiers who are interested in becoming ski instructors. Discusses the potential in the skiing industry and professionalism as a ski instructor. Introduces American Teaching System. Presents the methodology of ski instruction to intermediate and beginning skiers. Includes lecture and actual ski time on the hill (transportation is not provided). Students are required to have their own equipment and purchase a half-day pass each ski day at a reduced rate.

REC 1625

Cross Country Skiing

1:5:1.5 **On Sufficient Demand**

Presents basic ski touring techniques. Studies selection and utilization of winter touring equipment and clothing in relation to varying climatic and terrain conditions. Includes trail etiquette, avalanche avoidance, and other important factors for a successful winter tour. Includes classroom instruction and ski touring. Taught on block only.

REC 2010

Avalanche Awareness

1:5:1.5 **Spring**

Examines the relationship of people in the backcountry and their cause/effect relationship with ever-changing snow conditions. Prepares students to safely and effectively venture into the winter backcountry. Course fee of \$53 for equipment applies.

REC 2200

Foundations of Recreation

3:3:0 **Fall, Spring**

* Prerequisite(s) or Corequisite(s): ENGL 1010

Introduces the study of Recreation. Studies the history and philosophy of the field of Recreation. Analyzes problems in areas covered under the umbrella of Recreation. Explores the Recreation sub-disciplines and related career and employment opportunities in this area.

REC 2400

Principles of Experiential Education in

Recreation

3:3:0 **Fall, Spring**

* Prerequisite(s): REC 2200, ENGL 1010

* Prerequisite(s) or Corequisite(s): ENGL 2010 or ENGL 2020, MATH 1000 or higher

Introduces the principles and concepts of experiential education in the general context of recreation programming and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain. Offers experience in the use of learning cycles, facilitation, feedback, processing, and effective communication techniques, risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires participation in experiential education programming and observation and participation in programs outside of class time.

REC 2450

Rock Climbing Site Management and

Facilitation

3:3:0 **On Sufficient Demand**

* Prerequisite(s): REC 1527, REC 2400

Introduces the principles and concepts of experiential education in the general context of recreation programming and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain. Offers experience in the use of learning cycles, facilitation, feedback, processing, and effective communication techniques, risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires participation in experiential education programming and observation and participation in programs outside of class time.

REC 2500

Introduction to Adventure Recreation

2:2:0 **On Sufficient Demand**

Explores the philosophy, meaning and value of outdoor adventure recreation. Studies planning, organizing and leading outdoor excursions. Includes hiking, canoeing, camping, scuba diving, cross-country skiing, snowshoeing, compass navigation, outdoor cooking, archery, golfing, etc. Course fee of \$80 for transportation, equipment applies.

Course Descriptions

REC 2600

Principles of Outdoor and Adventure Education

3:3:0

Fall

* Prerequisite(s): REC 1535 and REC 2400

Teaches leadership of outdoor and adventure education topics necessary for instructing the beginning student. Uses pedagogical lecture methods and experiential learning. Includes industry standard presentations and critiques of orienteering, map reading, packing, backcountry cooking, campsite set-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel, Leave NO Trace ethics, and personal risk management. Requires hiking or orienteering assignments outside of class. Prepares students to qualify for certification as Wilderness Stewards through the Wilderness Education Association. Addresses risk management from both physical and emotional perspectives. Uses pedagogical lecture methods and experiential learning. Requires observation and participation in programs outside of class time.

REC 2650

Principles of Challenge Education

3:3:0

On Sufficient Demand

* Prerequisite(s): REC 1516, REC 2400

Prepares students for employment in the challenge education and experientially-based training and development sectors. Teaches students functional aspects of challenge education, facility design and use, program design for specific populations, facilitation and processing; as well as, assessment and evaluation of programs. Addresses risk management from both physical and emotional perspectives. Utilizes pedagogical lecture methods, experiential learning, and participation in challenge education programming. Requires observation and participation in programs outside of class time. Course fee of \$95 for transportation, support applies.

REC 2700

Leave No Trace Trainer

1:5:1.5

Fall, Spring

* Prerequisite(s): REC 1535

Designed to train environmental leaders and interpreters in the delivery of Leave No Trace (LNT) principles and practices. Emphasizes the skills and ethics necessary for low impacts on the environment. Course fee of \$20 for equipment, materials applies.

REC 2750

Principles of Water Based Adventure Education

3:3:0

On Sufficient Demand

* Prerequisite(s): PES 1300, REC 2400

Develops the principles and concepts of experiential education in the water-based context and prepares students for further study and skill development in context specific experiential education programming. Teaches history, theory, and ethics in the domain; as well as, develops experience in the use of learning cycles, facilitation, feedback, processing and effective communication techniques. Includes industry standard presentations and critiques of water safety, hydrology, paddling and stroke technique, self and group rescue techniques, decision-making and judgment, program planning, weather, leave no trace, personal risk management, and equipment care and maintenance. Addresses risk management from both physical and emotional perspectives. Utilizes pedagogical lecture methods and experiential learning, and participation in experiential education programming. Requires observation and participation in programs outside of class time. Prepares students to seek professional certification.

REC 3100

Recreation Program Planning

3:3:0

Spring

* Prerequisite(s): (REC 2200 or instructor approval) and University Advanced Standing

* Prerequisite(s) or Corequisite(s): MATH 1000 or higher

Investigates program planning and development in outdoor programs, camps, agencies, and education organizations. Emphasizes writing of technical program plans that state goals, program organization, curriculum, budgets, marketing, and evaluation.

REC 3200

Inclusive Recreation

3:3:0

Fall

* Prerequisite(s): REC 2400, REC 3100, and University Advanced Standing

Recreation service delivery for individuals with disabilities and other under-represented groups. Presents solutions to full recreation participation for individuals with physical, sensory, emotional and/or intellectual impairments. Incorporates hands on experience working with diverse populations. Course Lab fee of \$30 applies.

REC 3300

Wilderness Skills

1:5:1.5

Fall, Spring

* Prerequisite(s): REC 1535 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): REC 2200

Teaches tools and skills needed for surviving in the wilderness. Includes orienteering, map reading, packing, backcountry cooking, campsite set-up, food rationing, river crossing, proper clothing, water purification, hygiene, weather forecasting, backcountry travel, Leave NO Trace ethics, and personal risk management. Course fee of \$30 for transportation, equipment, and support applies.

REC 3400

Risk Management

3:3:0

Spring

* Prerequisite(s): REC 2200 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): MAT 1010

Studies outdoor recreation risk management. Focuses on applying models of risk management, negligence, torts, risk management planning, and outdoor recreation safety.

REC 3500

Recreation Administration

3:3:0

Fall

* Prerequisite(s): REC 3100 and University Advanced Standing

Analyzes the internal organization of a recreation department dealing with finances and accounting, records and reports, publicity and public relations, state and federal legislation, staff organization, coordination of community resources.

REC 3700

Natural Resource Interpretation

3:3:0

Fall

* Prerequisite(s): REC 2400 and University Advanced Standing

Investigates theories, principles, and techniques of interpreting park, cultural, and natural resources to the public. Emphasizes techniques for providing interpretive programs developed for natural resources.

REC 385G

Ethical Concerns in Recreation

3:3:0

Spring

* Prerequisite(s): REC 2400, PHIL 2050, and University Advanced Standing

Examines the complex and controversial world of ethics as it pertains to the fields of outdoor recreation and natural resource management. Examines these fields from numerous perspectives; anthropocentric, biocentric and ecocentric, and theocentric.

REC 4000

Outdoor Leadership

4:3:2

Spring

* Prerequisite(s): REC 1535, REC 3300, REC 2600, REC 1542, and University Advanced Standing

Examines principles and practices of leadership in outdoor recreation programs. Focuses on the examination of theories, practices, and problems of leadership in an adventure environment. Provides hand-on experiences with students required to plan and be in a leadership position. Requires 30 hours of volunteer work experience. Course fee of \$126 for transportation, equipment, and support applies.

REC 410R

Experiential Learning Expedition

1 to 6:1:5 to 15

On Sufficient Demand

* Prerequisite(s): Department approval and University Advanced Standing

Teaches experiential learning and leadership in a expedition context. Includes but not limited to expedition planning, hard skills development, expedition behavior and group dynamics, team building, adventure tourism, and local cultural/natural resources. Repeatable up to 12 credits. Course fee of \$700 for transportation, activities applies.

REC 420R**Outdoor Leadership and Management Practicum****2 to 4:0 to 4:0 to 20** Fall, Spring, Summer

* Prerequisite(s): REC 2400, 50 credit hours completed, minimum GPA of 2.25, Instructor approval, and University Advanced Standing

Provides students with practical work experience (volunteer or paid) either through a program offered by the college or in an existing outdoor or experientially based agency. Participation in a 150 hour department approved supervised outdoor recreation service. Topics vary by practicum experience. May be repeated for a total of 6 hours toward graduation. Graded credit/no credit.

REC 430R**Teaching Assistantship in Outdoor Recreation****1 to 4:1 to 4:0** Fall, Spring, Summer

* Prerequisite(s): Instructor Approval and University Advanced Standing

Provides students who have demonstrated a high level of proficiency to serve as assistant instructors in selected Outdoor Recreation courses. Requires students to take active leadership roles. Includes planning, sequencing and teaching outdoor recreation topics and skills with faculty supervision. May be repeated for up to 8 credit hours toward graduation. Graded Credit/No Credit.

REC 4350**Research Methods in Outdoor Recreation****3:3:0** On Sufficient Demand

* Prerequisite(s): REC 2400 and (MAT 1000 or higher)

and University Advanced Standing

Introduces students to key research in their field. Emphasizes analytical and interpretive skills. Develops scientific writing skills. Promotes design and utilization of comprehensive research methodologies commonly applied in Outdoor Recreation.

REC 4400**Natural Resource and Protected Area Management****3:3:0** Fall

* Prerequisite(s): REC 2200 and University Advanced Standing

Examines topics in the management of Nation Parks, National Forests, Bureau of Land Management, and other public lands and protected areas focusing on management strategies and techniques for addressing common resource and social problems in natural resource recreation management. Emphasizes case studies and problem analysis. Course fee of \$30 applies for transportation, support applies.

REC 4500**Wildland Recreation Behavior****3:3:0** Spring

* Prerequisite(s): REC 4400 and University Advanced Standing

Studies behaviorally-based models and relevant research in wildland recreation. Provides an in-depth analysis of human behavior influences and topics including visitor satisfaction, crowding, carrying capacity, resource destruction, motivations, attitudes, preferences, norms, conflicts, and specialization. Using these theoretical concepts, visitor-based management models will be presented and criticized. Emphasis on critical problems affecting public land recreation management. Course fee of \$20 applies for transportation, support applies.

REC 4800**Professional Preparation in Recreation****1:1:0** Fall, Spring

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): REC 2400

Prepares the student to make the transition from student to professional in Outdoor Recreation. Includes discussion of internship selection, application materials, interviewing skills, job search, salary negotiation, and other professional issues. Provides mentoring during the internship search process.

REC 481R**Senior Internship****1 to 8:0:5 to 40** Fall, Spring, Summer

* Prerequisite(s): REC 4800, REC 420R, 80 credit hours completed, minimum 2.5 GPA, instructor approval, and University Advanced Standing

Provides supervised, hands-on field experience for excellent students preparing to take entry-level positions in recreation. May be repeated for a maximum of 12 credits toward graduation. May be graded Credit/No Credit.

REC 489R**Undergraduate Research in Recreation****1 to 4:0:5 to 20** On Sufficient Demand

* Prerequisite(s): REC 2200, Departmental approval of research proposal, and University Advanced Standing

Provides students the opportunity to conduct research under the mentorship of a faculty member. Students will put in practice the theoretical knowledge gained in prior major courses. Students will create a significant intellectual or creative product that is characteristic of the recreation discipline and worthy of communication to a broader audience. May be repeated for a maximum of 8 credits toward graduation.

REC 490R**Topics in Recreation****1 to 3:1 to 3:0** On Sufficient Demand

* Prerequisite(s): (REC 2200 or Instructor Approval) and University Advanced Standing

Focuses student reading, research, and discussion on specific areas of concentration within the field of outdoor recreation management. (Specific areas of focus will change as the instructor and his or her focus or expertise changes.) Analyzes how outdoor recreation affects and is affected by culture, ideology, socio-economic factors, history, etc. Focuses may include: Recreation and Popular Culture, Recreation and Diversity, and History and Philosophic Issues in Recreation, among others. May be repeated for up to 6 credits toward graduation.

REC 4950**Senior Seminar****2:2:0** Spring

* Prerequisite(s): REC 2400, REC 3100, STAT 1040 or higher, and University Advanced Standing

Examines current outdoor recreation topics that allow senior students the opportunity to relate academic studies to the latest problems, changes, and trends in the field.

Respiratory Therapy (RESP)**RESP 1540****Survey of Respiratory Therapy****1:1:0** Spring

Introduces students to the profession of respiratory therapy. Includes field trips and limited lab activities. Open to all students.

RESP 2145**Introduction to Basic Therapeutic Modalities Lab****3:0:6** Spring

* Prerequisite(s): Acceptance into the Respiratory Therapy Program

Provides laboratory experiences to develop basic patient interaction and assessment skills required of an entry-level respiratory therapist.

RESP 2165**Equipment Management Lab****3:0:6** Summer

* Prerequisite(s) or Corequisite(s): RESP 2145

Provides laboratory experience with mechanical ventilation techniques and equipment. Emphasizes patient observation and assessment skills, as well as techniques in initiating, troubleshooting, monitoring, managing, and weaning ventilator parameters.

RESP 2210**Elementary Cardiopulmonary Anatomy and Physiology****3:3:0** Spring

* Prerequisite(s): Acceptance into the Respiratory Care Degree Program and RESP 1540

Investigates anatomy and physiology of the pulmonary, cardiovascular, and renal systems focused for the entry-level respiratory care practitioner. Includes principles of fluid dynamics governing oxygen and carbon dioxide transport throughout the body.

RESP 2230**Cardiopulmonary Pathophysiology****2:2:0** Summer

* Prerequisite(s): RESP 2210

Introduces medical and surgical diseases of the pulmonary and cardiovascular systems for the entry-level respiratory therapist, with emphasis given to etiology, clinical presentation, diagnosis, treatment, and prognosis.

RESP 2250**Basic Patient Assessment****2:2:0** Spring

* Prerequisite(s): Acceptance into Respiratory Therapy Program.

Introduces basic patient assessment techniques, including respiratory therapy application of obtaining patient history and physical examination. Emphasizes integration of laboratory and imaging studies.

Course Descriptions

RESP 2270

Application of Cardiopulmonary Diagnostics

3:3:0 Spring

* Prerequisite(s): RESP 2210

Introduces theory and clinical application of basic cardiopulmonary diagnostic studies, including simple spirometry, arterial and mixed venous blood gases, and electrocardiograms. Emphasizes critical thinking skills in interpretation of diagnostic findings.

RESP 2300

Basic Modalities in Respiratory Care

3:3:0 Spring

* Prerequisite(s): Acceptance into the Respiratory Therapy Program.

* Prerequisite(s) or Corequisite(s): RESP 2145

Examines principles and theory of clinical application of basic respiratory treatments and therapies, including indications, contraindications, hazards and complications, and equipment management. Examines principles and theory of clinical application of airway management and artificial ventilation. Includes theory of invasive and non-invasive ventilation. Emphasizes patient assessment and critical thinking skills.

RESP 2320

Essentials of Mechanical Ventilation

3:3:0 Spring

* Corequisite(s): RESP 2165

Introduces basic principles of mechanical ventilation, including determining the need for ventilation support, as well as initiation, maintaining, monitoring, and weaning from mechanical ventilation.

RESP 2330

Entry Level Respiratory Therapy Review

1:1:0 Spring

* Prerequisite(s): RESP 2210, RESP 2300, RESP 2250

* Prerequisite(s) or Corequisite(s): RESP 2320, RESP 2270

Provides a comprehensive review to integrate concepts and skills in Respiratory Therapy.

RESP 2520

Principles of Pharmacology

2:2:0 Spring

* Prerequisite(s): RESP 2210

Introduces pharmacology, including general principles, autonomic and central nervous system agents, cardiovascular agents, and immunotherapeutic agents. Includes the study of drugs used in managing renal, GI tract, endocrine, and infectious or neoplastic diseases and disorders.

RESP 2705

Clinical Applications I

3:0:6 Spring

* Prerequisite(s): Acceptance into the Respiratory Therapy Program

* Prerequisite(s) or Corequisite(s): RESP 2300, RESP 2145

Provides clinical rotations in various hospital and other health care settings allowing for mentored practice of skills. Emphasizes application of assessment skills including medical chart reviews and patient observation and examination. Emphasizes recommending and modifying basic therapies utilizing patient assessment skills and review of patient medical history.

RESP 2715

Specialty Clinical Experiences

1:0:2 Summer

* Prerequisite(s): RESP 2705

Provides opportunity to observe and participate in specialty areas of the respiratory care profession, including pulmonary function testing, cardiac testing, ECGs, ABGs, and long-term artificial airway maintenance. Requires 30 hours in clinical rotations with a registered respiratory therapist as a mentor in various hospital and other health care settings.

RESP 2725

Clinical Applications II

3:0:6 Fall

* Prerequisite(s): RESP 2705

Provides clinical rotations in selected medical settings, focusing on skills of initiation, management, and weaning of mechanical ventilation. Includes case studies as well as patient care. Requires 90 clinical hours with a registered respiratory therapist mentor.

RESP 3210

Adv Cardiopulmonary Anatomy and Physiology

2:2:0 Spring

* Prerequisite(s): RESP 2210, RESP 2230, and University Advanced Standing

Addresses cardiopulmonary anatomy and physiology specifically for the advanced-level respiratory care practitioner focusing on the advanced physiologic considerations of the cardiovascular, pulmonary, and renal systems.

RESP 3220

Advanced Cardiopulmonary Pathophysiology

2:2:0 Spring

* Prerequisite(s): RESP 2230, RESP 3210, and University Advanced Standing

Examines pathophysiology and diagnosis of coronary artery disease, fungal lung diseases, neoplasms, HIV, adult respiratory distress syndrome (ARDS), chest trauma, shock, multiple organ dysfunction syndrome (MODS), and differentiation of extracellular and intracellular fluid compartments.

RESP 3230

Advanced Cardiopulmonary Technology

2:2:0 Spring

* Prerequisite(s): RESP 2270 and University Advanced Standing

Explores advanced diagnostic procedures and develops interpretive skill in cardiopulmonary function, lung dynamics, specialty gases, blood gas analysis, and metabolic assessment.

RESP 3260

Neonatal/Pediatric Respiratory Care

3:3:0 Spring

* Prerequisite(s): RESP 2320 and University Advanced Standing

* Corequisite(s): RESP 3765

Examines pediatric and neonatal respiratory care with emphasis on intensive care activities, therapeutic procedures, life support modalities, and fetal, neonatal, and pediatric pathophysiology.

RESP 3270

Adult Critical Care

2:2:0 Spring

* Prerequisite(s): RESP 2320 and University Advanced Standing

* Corequisite(s): RESP 3775

Explores advanced level adult respiratory care in the intensive care setting. Emphasizes ventilation/perfusion monitoring, hemodynamic monitoring airway, assessment and critical patient management.

RESP 3280

Patient Care Continuum/Quality Management

2:2:0 Spring

* Prerequisite(s): RESP 2300 and University Advanced Standing

Analyzes theory and principles of continuum of care and quality management in pulmonary rehabilitation, polysomnography, home and self care. Includes legal, ethical, and moral considerations of chronic and extended care.

RESP 3510

Anatomy and Physiology of Sleep

3:3:0 Spring

* Prerequisite(s): University Advanced Standing and Department approval. Requires (acceptance into the Respiratory Care Program or completion of a respiratory care program) or R.N. credential.

Introduces anatomy and physiology of the neurological, cardiac, and respiratory systems during the wake and sleep cycles. Emphasizes changes related to sleep disorders.

RESP 3520

Introduction to Sleep Disorders

3:3:0 Spring

* Prerequisite(s): RESP 3510 and University Advanced Standing

Provides an overview of the history of sleep medicine, normal sleep physiology, the effects of sleep-wake disruption, sleep disorders, and abnormal sleep physiology. Includes an introduction to polysomnography and the fundamentals of therapeutic interventions utilized to treat sleep disorders.

RESP 3530

Instrumentation and Computers in

Polysomnography

3:1:4 Spring

* Prerequisite(s): RESP 3510 and University Advanced Standing

Studies and applies equipment, instrumentation, and recording devices utilized in polysomnography, such as EEG, ECG and a range of breathing monitoring systems and devices, including data acquisition and trouble shooting.

RESP 3550

Therapeutics of Managing Sleep Apnea

2:1:3 Spring

* Prerequisite(s): RESP 3520 and University Advanced Standing

Covers current therapies and interventions for treatment of sleep apneas. Includes interventions such as positive airway pressure therapy (nocturnal CPAP and bi-level CPAP), surgery, and dental devices.

RESP 3765
Clinical Applications of Neonatal/Pediatric Respiratory Care
3:0:12 **Spring**

* Prerequisite(s): RESP 2320 and University Advanced Standing
 * Corequisite(s): RESP 3260
 Provides mentored participation in the clinical care of patients in the neonatal/pediatric critical care setting. Emphasizes cardiovascular and patient/ventilator monitoring and assessment and airway management. Requires 180 hours of mentored participation in neonatal and pediatric intensive care.

RESP 3775
Clinical Applications of Adult Critical Care
4:0:12 **Spring**

* Prerequisite(s): RESP 2725 and University Advanced Standing
 * Corequisite(s): RESP 3270
 Provides mentored participation in the clinical care of patients in the adult critical respiratory care setting, with emphasis on hemodynamic monitoring and assessment, ventilation/perfusion monitoring, patient/ventilator monitoring and assessment, and airway management. Requires 120 documented clinical hours.

RESP 3785
Clinical Applications III /Continuum of Care
2:0:4 **Spring**

* Prerequisite(s): RESP 2310 and University Advanced Standing
 * Prerequisite(s) or Corequisite(s): RESP 3280
 Provides clinical experiences related to RESP 3280, such as rehabilitation, extended care, home care, polysomnography, patient assessment for discharge planning and quality management. Requires 60 documented clinical hours.

RESP 3800
Clinical Simulation Seminar
3:3:0 **Spring**

* Prerequisite(s): RESP 3260, RESP 3270, RESP 3280, and University Advanced Standing
 Explores problem-based clinical concepts. Includes a comprehensive program review and preparatory focus on the written and clinical simulation examinations of the NBRC.

RESP 4615
Advanced Patient Assessment
3:0:9 **Summer**

* Prerequisite(s): University Advanced Standing and Department approval
 Emphasizes an understanding of diagnostic processes involved in assessing, evaluating, and treating patients with cardiopulmonary disease, with an intensive, mentored clinical experience.

RESP 4630
Continuous Quality Improvement
2:1:3 **Spring**

* Prerequisite(s): University Advanced Standing
 Enhances understanding of how to construct and conduct quality improvement projects in the clinical workplace.

RESP 480R
Health Education and Promotion
1 to 4:1 to 4:0 **Fall, Spring, Summer**

* Prerequisite(s): University Advanced Standing and departmental approval.
 Provides students an opportunity to pursue independent study in respiratory therapy with a faculty mentor. The health promotion project addresses the growing role of the Respiratory Care Practitioner (RCP) in patient education, public education, and health promotion in general. Requires preparation and presentation of oral and/or written reports. May be repeated for up to 4 credits toward graduation.

RESP 489R
Student Research in Respiratory Therapy
1 to 4:0:3 to 12 **Spring**

* Prerequisite(s): University Advanced Standing and Department approval. Must have completed Respiratory Therapy AAS degree requirements.
 Provides guided research studies in biology under the direction of a Respiratory Therapy faculty or physician mentor. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original medical or biological research. Requires preparation and presentation of oral and/or written reports. May be repeated for up to 4 credits toward graduation.

RESP 494R
Student Seminar in Respiratory Therapy
1:1:0 **Spring**

* Prerequisite(s): University Advanced Standing and Acceptance in the Respiratory Therapy program.
 Requires students to research scientific literature, give oral presentations, and lead discussions on assigned human respiratory related topics in specific areas of current medical research. May be repeated for up to two credits toward graduation.

Religious Studies (RLST)

RLST 3540 (Cross-listed with: PHIL 3540)
Christian Ethics

3:3:0 **On Sufficient Demand**
 * Prerequisite(s): PHIL 1610 and University Advanced Standing
 Examines key developments and conceptions in Christian ethics through historical and conceptual methodologies. Explores the relationship between religious and secular approaches to ethics in their approach to questions of war, economics, politics, and/or other relevant issues.

RLST 3610 (Cross-listed with: PHIL 3610)
Introduction to Christian Theology
3:3:0 **On Sufficient Demand**

* Prerequisite(s): PHIL 1610 and University Advanced Standing
 Examines key developments and conceptions in Christian theology through historical and conceptual methodologies.

RLST 3620 (Cross-listed with: PHIL 3620)
Mormon Theology and the Christian Tradition
3:3:0 **On Sufficient Demand**

* Prerequisite(s): PHIL 1610 and University Advanced Standing
 For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Engages students in exploring the defining features of Mormon thought in relation to the broader Christian tradition. Examines traditional theological questions such as the problem of evil, the scriptural canon, the nature of God and humanity, and the role of ritual.

RLST 3650 (Cross-listed with: PHIL 3650)
Approaches to Religious Studies
3:3:0 **Spring**

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing
 For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Teaches methodological approaches and critical thinking strategies in the study of religion. Explores various disciplines in their approaches to religious belief and practice. Includes the study of such thinkers as David Hume, Immanuel Kant, Friedrich Schleiermacher, Rudolf Otto, William James, Ludwig Feuerbach, Soren Kierkegaard, Max Weber, Emile Durkheim, John Hick, and Rene Girard.

RLST 366R (Cross-listed with: PHIL 366R)
Issues in Religious Studies
3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): (PHIL 2050 or PHIL 205H or PHIL 205G or instructor approval) and University Advanced Standing
 For students majoring in humanities-related disciplines and other students interested in the academic study of religion. Addresses specific topics and theoretical approaches related to religious studies. Topics may include religion and violence, religion and public discourse, religious ritual, etc. Subject matter varies by semester and is repeatable for a total of 9 hours of credit.

Russian (RUS)

RUS 1010 **LH**
Beginning Russian I
4:4:1 **Fall**

Studies conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Lab access fee of \$10 applies.

RUS 1020 **LH**
Beginning Russian II
4:4:1 **Fall, Spring**

* Prerequisite(s): Students need equivalent knowledge of RUS 1010
 Studies second semester conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Completers should be able to communicate enough to visit or work in a Russian speaking country. Lab access fee of \$10 applies.

Course Descriptions

RUS 115R **Russian Conversation I**

1:1:0

Offers novice Russian speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

RUS 135R **Russia in the Headlines**

1:1:0

Explores current issues in Russian headlines. Explains cultural, historical, political and social factors that contribute to positions taken by current Russian leaders. May be repeated for a maximum of 3 credits toward graduation.

RUS 2010 **Intermediate Russian I**

4:4:1

* Prerequisite(s): Students need equivalent knowledge of RUS 1020

Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of Russia, maintaining a focus on oral proficiency. Lab access fee of \$10 applies.

RUS 202G **Intermediate Russian II**

4:4:0

* Prerequisite(s): Students need equivalent knowledge of RUS 2010

Studies fourth-semester conversational Russian that is used in daily settings. Includes culture study, speaking, listening, reading, and writing. Emphasizes conversation in real life situations. Uses the Natural and Total Physical Response teaching methods. Completers should be able to converse enough to visit or work in a Russian speaking country. Lab access fee of \$10 applies.

RUS 215R **Russian Conversation II**

1:1:0

* Prerequisite(s): Students should have equivalent knowledge of RUS 1020

Offers lower division / novice Russian speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

RUS 266G **Introduction to Russian Culture**

3:3:0

On Sufficient Demand

* Prerequisite(s): ENGL 1010

Studies Russian culture (988-1900) within a historical, cultural, thematic, and aesthetic context.

RUS 3030 **Russian Conversation and Composition I**

3:3:0

* Prerequisite(s): (RUS 202G or instructor approval) and University Advanced Standing

Emphasizes production skills [speaking and writing], reviews and expands lexical depth and advances mastery of Russian grammar. Examines contemporary Russian culture topics through studying a variety of Russian sources: readings, film, lecture, individual research, etc. Analyzes topics through active class discussion in Russian. Conducted entirely in Russian.

RUS 3040 **Russian Conversation and Composition II**

3:3:0

On Sufficient Demand

* Prerequisite(s): (RUS 202G or instructor approval) and University Advanced Standing

Explores communicative skills in Russian. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Advances mastery of Russian grammar while emphasizing production skills of speaking and writing. Prepares students to participate fully in subsequent advanced courses. All course work conducted in Russian.

RUS 3050 **Advanced Russian**

3:3:0

Fall, Spring

* Prerequisite(s): RUS 202G, one year residency in a Russian-speaking country, or instructor approval

Designed for non-native Russian speakers, who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Russian. Targets major grammatical concepts with a focus on oral proficiency development. Overviews Russian culture and gives an introduction to Russian literature. Lab access fee of \$10 applies.

RUS 3200 **Business Russian**

3:3:0

On Sufficient Demand

* Prerequisite(s): RUS 3050 and University Advanced Standing

Teaches Russian business terminology and prepares students to take the Business Russian Proficiency Tests sponsored by the Russian Chamber of Commerce.

RUS 3520 **Russian Culture and Civilization**

3:3:0

On Sufficient Demand

* Prerequisite(s): (RUS 3050 or equivalent) and University Advanced Standing

Explores chronologically the evolution and development of Russia, and a multitude of aspects that construct Russian national identity. Completers should acquire an understanding of contemporary issues, ethnic and economic development of Russia, as well as historical interdependence with other nations. Presentations and class instructions conducted entirely in Russian.

RUS 3620 **Nineteenth-Century Russian Literature**

3:3:0

On Sufficient Demand

* Prerequisite(s): [(RUS 3030 and RUS 3040) or RUS 3050] and University Advanced Standing

Chronologically introduces representative Russian authors from 1800. Emphasizes literary analysis and criticism, explores literary history, develops skills in interpreting literary texts, and deepens understanding of the Russian language. All course work conducted in Russian.

RUS 366G **Twentieth Century Russian Culture**

3:3:0

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Explores the main Russian cultural influences of the 20th century. Examines the cultural, social and political movements developed from roughly 1880-1999 and considers the main figures who embody these movements. Focuses on individuals who exemplify cultural achievements in their given field or sphere of influence. Requires a research paper that focuses on an individual who contributed to the 20th century cultural milieu. Taught in English.

RUS 367G (Cross-listed with: HIST 367G) **History of Russian Film**

3:2:2

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies Russian cinema within the historical, cultural, thematic, and aesthetic context.

RUS 4050**Special Problems in Grammar Usage and Style****3:3:1** **On Sufficient Demand**

* Prerequisite(s): [(RUS 3030 and RUS 3040) or RUS 3050] and University Advanced Standing

Reviews Russian grammar focusing on problem areas. Explores grammar as deployed in different genres. Emphasizes writing in different styles. Identifies styles in readings and compose according to certain styles.

RUS 4110**Translation and Interpretation****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (RUS 3050 or equivalent) and University Advanced Standing

Introduces translation as a discipline. Develops the special skills needed for translating and interpreting, and to achieve mastery of the contemporary spoken and written language. Discusses basic theory, principles and tools of translation. Employs the tools of translation: dictionaries, glossaries, grammars and computerized resources. Focuses on the extensive practice of translation and interpretation from English to Russian and from Russian to English.

RUS 416G**Post Soviet Russian Media and Film****3:2:2** **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Examines visual media with special attention paid to the embedded cultural discourse that can only be understood with references to Russian history, language, and cultural identity. Explores Russia's depiction of and relationship with its past, present and future. Explores certain questions about visual media in post-Soviet society: the function of cinema in the new Russia; how cinema offers what reality cannot -- a goal for people to live up to at a time when politics and ideology fail to provide direction; how cinema articulates the reality of contemporary Russian life.

RUS 490R**Special Topics in Russian Studies****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Explores a variety of subjects relevant to the study of Russian language, literature and culture. Engages students in critical analysis and discourse. May be repeated for a maximum of 6 credits toward graduation.

Student Leadership and Success Studies (SLSS)**SLSS 1000****University Student Success****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): Appropriate reading skills

Introduces and integrates new students to the UVU community, both academically and socially. Teaches strategies for academic success, such as critical thinking skills, time and financial management, and effective collaboration techniques. Develops student awareness of campus resources and assists in exploring and establishing personal, academic, and career goals. Includes lectures, group interaction, online interaction with faculty and students, in class exercises, and projects which apply learning to real life situations.

SLSS 101R**Student Success Topics****1 to 3:1 to 3:0** **Fall, Spring, Summer**

* Prerequisite(s): Appropriate reading skills

Variable credit course that surveys essential skills for success in college. Topics covered include, but are not limited to: memory, note taking, test taking, textbook reading and study strategies, time management, writing processes, communication, and thinking skills. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

SLSS 103R**Student Leadership Development I****1 to 4:1:0 to 9** **Fall, Spring, Summer**

Provides an overview of leadership styles, personalities, and organizational dynamics for student leaders. Explores the structure and culture of Student Leadership, Utah Valley University, the governing boards of higher education, and the State of Utah relating to shared governance and student involvement in campus leadership. May be repeated for a maximum of 8 credits toward graduation. May be delivered hybrid.

SLSS 104R**Student Leadership Development II****1 to 4:1:0 to 9** **Fall, Spring**

* Prerequisite(s): Departmental Approval

Focuses on the nature of leadership, citizenship, and advocacy in a democracy. Provides an overview of leadership and civics as crucial to the success of any leader, including a student leader. May be repeated for a maximum of 8 credits toward graduation.

SLSS 1050**Library Research****1:1:0** **Fall, Spring, Summer**

Introduces information gathering strategies and processes. Teaches discovery of books, articles, and other information sources. Emphasizes critical evaluation and ethical use of information. Prepares students for in-depth research. May be delivered online.

SLSS 1100**Stress Management****3:3:0****Fall, Spring, Summer**

Presents strategies to develop new attitudes for coping with stressful circumstances. Increases a broader perspective and deeper understanding of acute and chronic stress. Develops conflict resolution techniques through improved communication skills. Studies physiological signs of stress and strain. Emphasizes relaxation techniques to increase performance and reduce the effects of stressful situations. Presents how diet affects personal performance and stress reduction. Explores physical fitness and the effects a sound body can have on coping with stress. May be delivered online.

SLSS 1120**Leadership and Civic Engagement****3:3:0****Fall, Spring, Summer**

Identifies how student leaders can impact the UVU community and the community which they live. Explores student leadership models in relation to change and discover community needs in a service-learning environment. Applies student leadership practices and understanding of civic engagement to inform the UVU community of a local, national or world-wide community need(s). Reflects on student leadership, civic engagement, and community. Practices life-long learning and advocacy for community change.

SLSS 1190**Power Reading and Learning Strategies****3:3:0****Fall, Spring, Summer**

For students with good reading skills who want to more efficiently and effectively understand and remember what they are reading in college texts. Presents a wide variety of critical thinking and reading strategies. Will be available face-to-face as well as on-line. May be delivered online. Canvas Course Mats \$35/Cengage applies.

SLSS 1195**Speed Reading****2:2:0****Fall, Spring, Summer**

For students with good reading skills who want to increase reading speed and flexibility while maintaining or increasing their level of comprehension. Also teaches methods of speed studying.

SLSS 1200**The 7 Habits of Highly Effective People****3:3:0****Fall, Spring, Summer**

Provides the foundation for personal leadership by teaching fundamental principles of character and life-changing paradigms. Examines the personal and organizational components of effectiveness. Focuses on high leverage changes such as time management, communication skills, win/win negotiation, and principle-centered life choices. Prepares students for life-long success. Includes highly interactive class discussions, application exercises, videos, and group work. May be delivered hybrid and/or online.

Course Descriptions

SLSS 120R

Testing Strategies for Educators

1:1:0 Fall, Spring, Summer

A course for prospective Elementary and Secondary Education Majors that focuses on helping students to acquire the study strategies and test taking skills necessary to pass examinations that allow them to be admitted into the education program and to receive state licensure. May be repeated for a maximum of 3 credits toward graduation.

SLSS 1400

Dimensions of Engaged Learning

1:1:0 Fall, Spring, Summer

Introduces students to theories and best practices related to engaged learning in higher education. Provides opportunities for students to collaborate, share ideas, and participate in common experiences.

SLSS 141R

University Forum

1:1:0 Fall, Spring, Summer

Encourages student participation in the academic and intellectual life of UVU through attendance and critical reflection on select academic and scholarly events. Integrates students' classroom learning with topical events through exposure to scholars and practitioners on a wide range of issues and from a variety of perspectives. May be repeated for a maximum of 6 credits toward graduation. Graded credit/no credit.

SLSS 2100

Major and Career Exploration

3:3:0 Fall, Spring, Summer

For students who are undecided about their major or career goals. Provides students with the opportunity to interact with career professionals; understand how to access internship, career preparation, and placement resources at UVU; and integrates understanding of self with knowledge of majors, careers, and the world of work. Utilizes an appropriate decision making model to identify possible major and career choices. May be delivered online. Course fee of \$22 for materials applies.

SLSS 2300

Leadership Mentoring II

3:3:0 Fall, Spring

* Prerequisite(s): SLSS 2200

Provides the ongoing and further development of the theoretical base and hands-on training in leadership and mentoring techniques for peer mentors, and also assists them in further exploring and developing their own learning skills and strategies, and methods for mentoring these skills in others. Explores higher cognitive application and analysis of teaching/facilitating learning as a form of leadership.

SLSS 240R

Mentoring Leadership Practicum

2:1:10 Fall, Spring, Summer

Provides the theoretical base and hands-on training in leadership and mentoring techniques as well as an understanding of and ability to apply the UVU Student Core Leadership Competencies. Assists student leaders in further developing their own self-awareness, learning skills and strategies, and explores methods for facilitating these in others. Provides an avenue for student leadership program administrators to facilitate goal development, fulfillment and performance among student leaders and the individuals they serve. Emphasizes building relationships with students, teaching life skills and learning strategies, and guiding students through the college experience. Repeatable for a maximum of 8 credits towards graduation.

SLSS 2500

Leader--Strengths-Based Inner Coach

3:3:0 Fall, Spring, Summer

Advances the study and practice of personal leadership by focusing on research-based character strengths. Uses strengths-based inquiry and assessment, identifies and examines character strengths as they relate to optimal functioning, well-being, and personal leadership (leadership of self and others). Draws upon the theories of positive leadership, positive paradigms and practices to develop a strengths-based core that they can transfer to diverse situations and a wide array of roles.

SLSS 281R

Internship

1 to 8:0:5 to 40 Fall, Spring, Summer

* Prerequisite(s): Department Approval

* Corequisite(s): SLSS 2100 recommended

Provides supervised, practical, and professional experience for students exploring a variety of career areas. May be repeated for a maximum of eight credit hours. May be graded credit/no credit.

SLSS 3200

Leader--Teacher and Mentor

3:3:0 Fall, Spring, Summer

Provides concurrent theoretical and engaged learning experiences that invite students to explore the notion of leader as an effective facilitator of learning and as a coach for self and others. Engages a broad range of current academic literature exploring relevant intra- and interpersonal leadership principles and their interactions within micro and macro level settings. Develops adaptable philosophical and practical toolkit to more effectively navigate within and across multiple settings as a mentor, teacher, and coach to self and others.

SLSS 402G

Global Professionalization

3:2:3 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

Underscores UVU's commitment to valuing global and intercultural opinions, backgrounds, traditions, perspectives, and experiences. Fosters an intercultural learning curriculum and an understanding of and an appreciation for, a variety of cultural perspectives and experiences is an essential element of higher education. Invites learners to move away from the view of "difference as deficiencies" which continues to be prevalent in society. Invites learners to become increasingly aware of the value and strength of diversity and to be more reflective of each person's role within education and society in general. Explores a growing body of literature and experience that implies a demanding personal and professional commitment. Examines deeper understanding that enhances learners' cultural awareness and prepare them for future employment in global and intercultural settings.

SLSS 405G

Leader--Global Contributor

3:3:0 Fall, Spring, Summer

* Placement into ENGL 1010 or higher

Examines what the world will look like in 25 years due to the influence of seven global dimensions or the 7 Revolutions (population, resource management, technology, information/knowledge, economic integration conflict, and governance). Explores various global, political, economic, social, and behavioral systems; and examines underlying causes of those issues within students' lives. Introduces academic skills in research, communication, critical thinking, and personal leadership.

SLSS 4800

Leader Capstone--Lifelong Change Agent

4:1:9 Fall, Spring, Summer

Requires students to propose and lead a project that integrates three central components: experiential learning, service, and leadership. Provides the opportunity to demonstrate knowledge, application, and proficiency of the core Leadership Certificate content areas. Allows students to propose projects in areas related to their academic and/or professional interests or goals. Projects are subject to approval by department faculty.

Sociology (SOC)

SOC 1010

SS

Introduction to Sociology

3:3:0 Fall, Spring, Summer

Studies and compares social groups and institutions and their inter-relationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.

SOC 101H

SS

Introduction to Sociology

3:3:0 Spring

Studies and compares social groups and institutions and their inter-relationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.

SOC 1020**Modern Social Problems****3:3:0** Fall, Spring, Summer

Studies and analyzes modern social problems such as crime, delinquency, family dysfunctions and inequality and exploitation of people in contemporary society. Class requires volunteer experience in community agencies.

SOC 1200**Sociology of the Family****3:3:0** Fall, Spring, Summer

Discusses the family in the context of society and its seven sociological institutions: family, media, government, economy, technology, education, and religion. Evaluates how changes in these institutions have facilitated many changes in the structure and function of the modern family. Examines traditional, current, and anticipated definitions of the family using core sociological theory and research tools. Evaluates cultural influence on the family. Focuses on strengthening marriages at the levels of dating, mate selection, marriage, newly wedded adjustment, parenting, finance, proactive family maintenance, and elderly family experiences. Emphasizes the application of one's own life and family experiences while maintaining scientific rigor and critical awareness.

SOC 2370**Gender Roles****3:3:0**

* Prerequisite(s): ENGL 1010 with a C+ or higher

Examines sociological perspectives of gender roles worldwide. Explores biological, cultural, social, and environmental expressions of maleness and femaleness. Addresses the effect of these areas on the construction of gender roles in various cultures around the world. Investigates how roles have changed over time and the consequences of these changes to broader societal norms globally and in the U. S.

SOC 275R**Survey of Current Topics****1 to 3:1 to 3:0** On Sufficient Demand

* Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010) and ENGL 1010 with a C+ grade or higher

Presents selected topics in Sociology. Approaches subjects from a cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

SOC 3000**Contemporary Social Theory****3:3:0** Fall, Spring

* Prerequisite(s): SOC 1010 and SOC 3310 and (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing

Surveys major sociological theories, which provide the basis for sociological research and the interpretation of social processes.

SOC 320G**Race and Minority Relations****3:3:0** Fall, Spring, Summer

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher) and University Advanced Standing

Studies ethnic and racial minority groups and the development of formal and informal relationships shared by these groups and the majority group. Explores the roles and origins of these groups and the concepts of prejudice, ethnic inequalities, current minority group movements, cross-cultural issues, economic, political, and educational aspects of majority-minority relations.

SOC 3310**Classical Social Theory****3:3:0** Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a minimum C+ grade), SOC 1010, and University Advanced Standing

Examines the contributions of key theorists such as Durkheim, Weber, Marx, DuBois, and Addams to the development of contemporary sociology.

SOC 3400**Sociology of Religion****3:3:0**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing

Examines religion from a sociological perspective. Analyzes religion as a social phenomenon. Discusses religious organizations, religion and politics, and religion and social class.

SOC 3430**Sociology of Education****3:3:0** Fall

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing

For students who desire a better understanding of United States and world education systems. Examines and investigates educational trends and issues such as private vs. public systems; dropout rates; desegregation; student achievement/failure; education policies; race; class; gender issues; the 'Hidden Curriculum'; and education reform using Sociological theory and empirical research.

SOC 3460**Political Sociology****3:3:0** Fall

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing

Explores the distribution of political power at the national and international levels from a variety of theoretical perspectives. Pays particular attention to the power wielded by international media conglomerates and the influence of international institutions such as the World Trade Organization, the World Bank, and the International Monetary Fund.

SOC 3501**Social Psychology****3:3:0**

* Prerequisite(s): SOC 1010 and University Advanced Standing

Examines individual's thoughts, feelings, and behaviors in social contexts. Analyzes human behaviors from a sociological perspective. Includes the history of sociological social psychology, perspectives and research methods in sociological social psychology, the social psychology of stratification, self and identity, socialization over the life course, social psychology of deviance, mental health and illness, social attitudes, sociology of emotions and relationships, and collective behavior.

SOC 3510**Sociology of Work and Occupations****3:3:0** Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a minimum C+ grade), SOC 1010, and University Advanced Standing

Examines work and occupations in historical and contemporary contexts. Examines current employment patterns and trends, the nature of labor markets and jobs, the gendered arrangements of paid and unpaid work, the organization and management of work. Explores transformations in occupational settings resulting from changes in economy and labor market. Focuses on the macro level (the effects of advancements in technology, bureaucratization and unionization on the division of labor), the micro-level (job satisfaction and alienation), and on the interface between macro and micro levels (job prestige, rewards, effects of ethnicity, age, and other characteristics).

SOC 3520 (Cross-listed with: ENST 3520)**Environmental Sociology****3:3:0**

* Prerequisite(s): (ENGL 2010 or 2020 with a C+ grade or higher), SOC 1010, and University Advanced Standing

Explores in detail several different approaches to understanding the social causes of and solutions to environmental degradation. Discusses the development of a wide variety of theory-based critiques of various social institutions (e.g., economic, political, religious) and how these institutions' values can create and perpetuate unsustainable practices.

SOC 3560**Sociology of Deviance****3:3:0** Fall

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing

Examines the strengths and weaknesses of several different definitions of deviance. Explains deviant behavior from a variety of theoretical perspectives and summarizes the existing data on several different forms of deviance, i.e., individual violations of social mores, street level crime, corporate crime, and crimes committed by nation states.

Course Descriptions

SOC 3690

Internet and Society

3:3:0 **Spring**

* Prerequisite(s): ENGL 1010, SOC 1010, and University Advanced Standing

Traces the history of new media through a sociological approach. Utilizes sociological theories of mass media and new media, (internet, smartphones, social media, etc.) and their impact on identities and institutions. Refers to sociological theories created in the pre-internet era – such as symbolic interactionism – to explain the pervasive presence of new media in society as well as our use of them.

SOC 3700

Social Inequality

3:3:0 **Spring, Summer**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing

Studies social structure, culture, environment (urban/rural axis), inequality, and poverty in American Society. Examines Spanish Harlem, Detroit, Appalachia, and the Bitterroot Valley of Montana.

SOC 375G

Sociology of Aging

3:3:0

* Prerequisite(s): University Advanced Standing

Explores the social aspects of aging at the personal, group, and larger social levels of society including the social implications of aging, the theories of aging, as well as formal and informal support of medical care, housing, and well-being of elderly persons. Includes the study of the identify the biological processes of aging and its impact on the roles and relationships elderly person experience in the later stages of life. Emphasizes the individual's experience in the context of national and global demographic trends, cultural and ethnic diversities and economic realities across the classes and across political boundaries.

SOC 3800

Animals and Society

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing

Examines the roles that non-human animals play in human societies. Utilizes sociological approaches to study human-animal relationships and to critically evaluate the ideologies which justify these relationships. Pays particular attention to human relationships in North America to domestic pets, livestock, and wildlife.

SOC 3850

Rural Life--Global and Local

3:3:0

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ or higher), SOC 1010, and University Advanced Standing

Introduces rural life across the globe. Discusses the views of agrarian writers and thinkers. Explores rural values, rural communities, rural race relations, and rural poverty. Evaluates how the rural perspective provides a platform for critique of modern societal transformations in the twentieth and early twenty-first centuries.

SOC 4020

Survey Research Design

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C+ grade or higher), BESC 3010, BESC 3020, and University Advanced Standing

Teaches methods of conducting survey research. Includes how to construct, validate, and administer surveys; how to conduct interviews; how to report data, and how to interpret findings.

SOC 4400

Social Change

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020), SOC 1010, and University Advanced Standing

Analyzes societies and their component parts. Evaluates various endogenous and exogenous forces which bring about social change. Examines historical and contemporary processes of social change and stratification. Explores current social conditions and applicable methods of social change. Offered once every other year.

SOC 475R

Current Topics in Sociology

1 to 3:1 to 3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a minimum grade of C+), SOC 1010, and University Advanced Standing

Presents selected topic in Sociology and will vary each semester. Requires a project demonstration competency in the specific topic. May be repeated 3 times with different topics.

SOC 490R

Independent Studies

1 to 3:1 to 3:0 **On Sufficient Demand**

* Prerequisite(s): Instructor approval, department chair approval, and University Advanced Standing; for Behavioral Science Bachelor Degree students only

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by instructor. May be repeated for a maximum of 6 credits.

Social Science (SOSC)

SOSC 291H

National Honors Study Topic

3:3:0 **On Sufficient Demand**

Sponsored and promoted by Phi Theta Kappa, national organization. Designed for an intellectual pursuit of National Honors Study topic. Discussion topic changes annually. Deals with current international issues that impact society and the quality of life. Students research and discuss the topic from several different perspectives and develop a knowledge base from which to formulate their own ideas.

Spanish (SPAN)

SPAN 1010

Beginning Spanish I

4:4:1 **Fall, Spring, Summer** **LH**

Emphasizes listening, speaking, and writing skills along with basic grammar, vocabulary, and verb conjugations, all within the cultural context of modern Hispanic societies. Uses an eclectic method of instruction, emphasizing conversational exchanges. Requires weekly lab. May be delivered hybrid. Lab access fee of \$10 applies.

SPAN 1020

Beginning Spanish II

4:4:1 **Fall, Spring, Summer** **LH**

* Prerequisite(s): Students need equivalent knowledge of SPAN 1010

Includes the remaining grammar and language concepts, literature, and cultural readings. Uses an eclectic method of instruction, emphasizing conversational exchanges. Conversational lab required. Computer and multimedia lab encouraged. May be delivered hybrid. Lab access fee of \$10 applies.

SPAN 115R

Spanish Conversation I

1:1:0

Offers novice Spanish speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, and sharpen listening comprehension for natural conversational flow. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

SPAN 1500

Spanish Travel Study

3:1:6 **On Sufficient Demand** **LH**

Introduces students to a Spanish-speaking foreign country for a minimum of 10 days of intensive language and culture study. Course entails several meetings prior to departure and at least one after the return home to facilitate observation and analysis of data to be gathered on the tour. An organized presentation of that data will be contained in a multimedia project due no later than one month after tour.

SPAN 2010

Intermediate Spanish I

4:4:1 **Fall, Spring, Summer** **LH**

* Prerequisite(s): Students need equivalent knowledge of SPAN 1020

Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the Spanish speaking world, maintaining a focus on oral proficiency. Lab access fee of \$10 applies.

SPAN 202G **HH**
Intermediate Spanish II
4:4:0 **Fall, Spring, Summer**
 * Prerequisite(s): Students need equivalent knowledge of SPAN 2010

Emphasizes reading, writing, and conversation skills through studies in literature. Media reading labs are available to help reading comprehension. Requires oral and written response. Lab access fee of \$10 applies.

SPAN 203G
Spanish for Heritage Speakers
4:4:1

* Prerequisite(s): Must be a heritage Spanish speaker (heritage speakers are individuals who speak their first language, which is not English, at home).

For heritage speakers of Spanish with little knowledge of grammar and no formal training in the language. Emphasizes and develops the oral skills students already possess as well as the four language skills: listening, speaking, reading, and writing. Meets Global Intercultural requirements.

SPAN 215R
Spanish Conversation II
1:1:0

* Prerequisite(s): Students should have equivalent knowledge of SPAN 1020

Offers lower division / novice Spanish speakers opportunities to enhance their speaking proficiency in the target language by focusing on oral verbal production. Teaches how to improve authentic pronunciation, reduce errors in authenticity of language structure, generate thought in the target language spontaneously as a substitute for translation, sharpen listening comprehension, and develop conversational strategies such as circumlocution and managing a conversation with useful expressions for starting a conversation, gaining time to think, helping the other speaker, seeking agreement, etc. Contrasts with all other first year courses which must strive to produce mastery of the whole range of language acquisition components, including writing, grammar, etc. Facilitates lowering the affective filter when conversing in the target language by increasing the frequency of speech opportunities and defusing concern for such matters as spelling, etc. Increases mastery of lexical items through increased frequency of oral usage. May be repeated for a maximum of 3 credits toward graduation.

SPAN 255R
Oral Communication
3:3:1 **On Sufficient Demand**
 * Prerequisite(s): Completion of SPAN 2010 or equivalent

Pursues skill development according to American Council of Teachers of Foreign Language oral proficiency guidelines, covers structural and linguistic paradigms essential to correct usage, considers proper application of tense and tense sequence, provides ample opportunity for students to interact, converse, present, and engage progressively in the language in multiple and varied formats.

SPAN 3030
Spanish Conversation and Composition I
3:3:0 **Fall**
 * Prerequisite(s): (SPAN 202G or equivalent) and University Advanced Standing

Explores communicative skills in Spanish. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Reviews grammar topics such as verb tenses, use of adjectives, and object pronouns.

SPAN 3040
Spanish Conversation and Composition II
3:3:0 **Spring**
 * Prerequisite(s): (SPAN 202G or equivalent) and University Advanced Standing

Explores communicative skills in Spanish. Provides opportunity for students to improve language production through extensive oral and written instruction and study of selected literary and cultural texts. Reviews grammar topics such as the subjunctive, relative clauses, and future and conditional tenses.

SPAN 3050 **LH**
Advanced Spanish
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): SPAN 202G, one year residency in a Spanish-speaking country, or instructor approval.

For non-native Spanish speakers who, as a result of foreign residency or similar exposure to the language, have attained a fairly good mastery of basic Spanish. Overviews the basic grammar of Spanish with special emphasis on major concepts, i.e., mastery of verb forms, object pronouns, preterite vs. imperfect, use of the subjunctive, etc. (Approximately 75% of the course, which is fairly fast paced, is dedicated to the study of grammar and 25% to literature and culture). Individuals who prefer a slower-paced approach should consider taking SPAN 3030 and SPAN 3040, which together will be somewhat equivalent to SPAN 3050. May be delivered online. Lab access fee of \$10 applies.

SPAN 3060
Oral Proficiency
1:1:0 **Fall, Spring**
 * Prerequisite(s): University Advanced Standing
 * Prerequisite(s) or Corequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050

Designed to help students understand the standards for oral proficiency as defined by the American Council on the Teaching of Foreign Languages (ACTFL) and to improve their oral proficiency skills. Is required of all Spanish and Spanish Education majors, who should achieve minimally the Intermediate High level as per the ACTFL guidelines. Requires Oral Proficiency Interview (OPI).

SPAN 3116
Pop Culture-Film/Media/Entertainment
3:3:0 **Fall, Spring**
 * Prerequisite(s): High-school students have to pass the AP Spanish Language or AP Spanish Literature & Culture test with a 3 or higher.

This course is part of the State of Utah Spanish Bridge Program and it will be taught only in high schools and for high school students. Not to be taught on college campus for university students. Explores the role that current film, media, and entertainment play in the Spanish-speaking world. Examines the historical and cultural perspectives presented through these media through a variety of approaches. Taught in Spanish.

SPAN 3117
Breaking Down Walls-Building Identities
3:3:0 **Fall, Spring**
 * Prerequisite(s): High-school students have to pass the AP Spanish Language or AP Spanish Literature & Culture test with a 3 or higher.

This course is part of the State of Utah Spanish Bridge Program and it will be taught only in high schools and for high school students. Not to be taught on college campus for university students. Explores how critical moments of change in the Spanish-speaking world have shaped the present. Analyzes crucial social and historical events that affected Spain, Latin America, and the Hispanic people in the United States.

SPAN 3118
Literature and Film-Contemporary Issues
3:3:0 **Fall, Spring**
 * Prerequisite(s): High-school students have to pass the AP Spanish Language or AP Spanish Literature & Culture test with a 3 or higher.

This course is part of the State of Utah Spanish Bridge Program and it will be taught only in high schools and for high school students. Not to be taught on college campus for university students. Explores works of literature and film in Spanish to analyze contemporary societal issues. Emphasizes literary analysis and criticism. Develops knowledge of literary history, skills in interpreting literary texts, and deepens understanding of the Spanish language.

SPAN 3200 **LH**
Business Spanish
3:3:0 **Fall, Spring**
 * Prerequisite(s): SPAN 3050 and University Advanced Standing

Teaches language structures and terminology specific to Spanish language in the field of Business. Examines the cultural issues present in the interactions with Spanish-speaking clients. Prepares students to work with Spanish-speaking clients in future careers in business, marketing, banking or translation/interpreting. Lab access fee of \$10 applies.

Course Descriptions

SPAN 3220

Pronunciation Phonetics and Phonology **3:3:0** **Spring**

* Prerequisite(s): SPAN 3050 and University Advanced Standing

Explores comparatively the articulatory system of English and Spanish, not only to help students identify and correct anomalies or inaccuracies in their own speech or the speech of others, but also to strengthen their understanding of the nature of oral speech. Provides extensive laboratory involvement for practice and analysis.

SPAN 3310

Spanish for Healthcare Professionals **3:3:0**

* Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050, and University Advanced Standing

Teaches language structures and terminology specific to Spanish language in the field of healthcare. Examines the cultural issues present in the interactions with Spanish-speaking patients. Prepare students to work with Spanish-speaking patients in future careers in medicine, nursing, or translation/interpretation.

SPAN 3320

Spanish for Mental Health Professionals **3:3:0**

* Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050, and University Advanced Standing

Teaches language structures and terminology specific to Spanish language in the field of Psychology. Examines the cultural issues present in the interactions with Spanish-speaking patients/clients. Prepares students to work with Spanish-speaking patients/clients in future careers in healthcare, social work, education, or translation/interpreting.

SPAN 3340

Spanish for Tourism and Hospitality Management **3:3:0**

* Prerequisite(s): SPAN 3030, (SPAN 3040 or SPAN 3050), and University Advanced Standing

Teaches language structures and terminology specific to Spanish language in the field of Tourism and Hospitality Management. Examines the cultural issues present in the interactions with Spanish-speaking clients. Prepares students to work with Spanish-speaking clients in future careers in the tourist and hospitality industry.

SPAN 3350

Legal Spanish **3:3:0**

* Prerequisite(s): SPAN 3030, (SPAN 3040 or SPAN 3050), and University Advanced Standing

Teaches language structures and terminology specific to Spanish language in the legal field. Teaches about political and legal institutions in the Spanish-speaking countries. Examines the cultural issues present in the interactions with Spanish-speaking clients. Prepares students to work with Spanish-speaking clients in future careers in law, administration and government, business, translation and interpreting.

SPAN 351G

Culture and Civilization--Spain **3:3:0** **Fall**

* Prerequisite(s): (SPAN 3050 or equivalent) and University Advanced Standing

Explores chronologically the cultural formation and development of Spain. Completers should acquire an understanding of the ethnic development and linguistic history of Spain. Presentations and class instruction conducted entirely in Spanish.

SPAN 352G

Culture and Civilization--Spanish America **3:3:0** **Spring**

* Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050 and University Advanced Standing

Explores chronologically the cultural formation and development of Spanish America. Completers should acquire an understanding of the ethnic development and linguistic history of Spanish American countries and societies. Presentations and class instruction conducted entirely in Spanish.

SPAN 3610

Spanish Peninsular Literature to 1800 **3:3:0** **Fall**

* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or (SPAN 3050 or equivalent)] and University Advanced Standing

Introduces chronologically to 1800 representative Spanish authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.

SPAN 3620

Spanish Peninsular Literature from 1800 **3:3:0** **Spring**

* Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050, and University Advanced Standing

Studies and analyzes chronologically from 1800 representative Spanish authors to focus on the relevance of their writings to the student's own life. Emphasizes literary analysis and criticism. Develops knowledge of literary history, skills in interpreting literary texts, and deepens understanding of the Spanish language. Analyzes works of diverse genres such as fiction, poetry, and essay. Provides students with enough exposure to each author to develop a feeling for his or her work.

SPAN 3630

Spanish American Literature to 1880 **3:3:0** **Spring**

* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Introduces chronologically to 1880 representative Spanish American authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.

SPAN 3640

Spanish American Literature from 1880 **3:3:0** **Fall**

* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Introduces chronologically from 1800 representative Spanish American authors. Emphasizes literary analysis and criticism. Completers should develop knowledge of literary history, acquire skills in interpreting literary texts, and deepen understanding of the Spanish language. Presentations and class instruction conducted entirely in Spanish.

SPAN 3690

Spanish and Latin American Cultures through Cinema **3:3:0**

* Prerequisite(s): SPAN 3030, (SPAN 3040 or SPAN 3050), and University Advanced Standing

Uses films to explore contemporary issues in the cultures and societies of Latin America and Spain. Teaches to analyze, interpret and read critically visual texts. Provides opportunities to improve students' proficiency in Spanish through oral and written interaction and production. Includes class discussion, written projects, exams, and oral presentations. Conducted entirely in Spanish.

SPAN 380R

Community Engagement in Spanish **1 to 3:1:2 to 6**

* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050 or instructor approval] and University Advanced Standing

Offers students the opportunity to volunteer in projects involving the local Hispanic community. Addresses the linguistic and cultural aspects of community volunteering. Requires from 2 to 6 hours of volunteering weekly in local schools, clinics, social service agencies, or civic organizations. Repeatable for a maximum 6 hours credit toward graduation.

SPAN 4050

Special Topics in Grammar Usage and Style **3:3:1** **Fall, Spring**

* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Reviews Spanish grammar focusing on problem areas. Explores grammar as deployed in different genres. Emphasizes writing in different styles. Completers should be able to identify styles in readings and compose according to certain styles. Lab access fee of \$10 applies.

SPAN 4100

Teaching Spanish Grammar **3:3:0** **Spring**

* Prerequisite(s): Admission to a Secondary Education teacher licensure program or departmental approval; [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

* Corequisite(s): LANG 4200 recommended

Enables prospective Spanish educators to acquire the strategies, methodology and techniques of how to present deductive and inductive principles of Spanish grammar. Discusses basic theory, principles and tools of Spanish linguistic issues. Includes extensive principle development and microteaching used as an assessment tool.

SPAN 4110**Introduction to Translation and Interpreting English and Spanish****3:3:0** **Fall**

* Prerequisite(s): (SPAN 3030 and SPAN 3040) or SPAN 3050; and it is highly recommended to take previously 6 credits from the Spanish for the Profession courses (Medical Spanish, Business Spanish, Legal Spanish, Spanish for Psychology, Spanish for Tourism, etc.)

Teaches basic concepts from Translation Studies. Provides practice on translation and interpretation between the pair of languages English and Spanish. Describes professional opportunities in the translation and interpretation field. Includes class discussion, translation and interpreting practice, analysis of translations, oral presentations and a portfolio. Lab access fee of \$10 applies.

SPAN 4120**Advanced Translation English and Spanish****3:3:0**

* Prerequisite(s): SPAN 4110 and University Advanced Standing

Provides opportunities for Spanish/English translation of texts in different fields (health, law, business, science, etc.). Examines the characteristics and terminology used in specialized texts. Introduces key concepts in the different areas of professional expertise and the differences they present in Spanish speaking countries compared to English speaking countries. Identifies job opportunities as a bilingual professional. Includes class discussion, translation practice, analysis of translations, presentations and a portfolio.

SPAN 412R**Spanish for the Professions****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (SPAN 3050 or departmental approval) and University Advanced Standing

Offers Medical Spanish, Legal Spanish, or Spanish for Tourism according to student demand. Focuses on the practical needs of students who seek careers in the applicable areas. Addresses the specialized vocabulary and communicative ability necessary for a professional in a bilingual English-Spanish or monolingual Spanish environment. Introduces interpretation in professional situations. May be repeated for a maximum of 6 credits toward graduation with different topics.

SPAN 4130**English Spanish Interpreting****3:3:0**

* Prerequisite(s): SPAN 4110 and University Advanced Standing

Teaches skills for interpreting in Spanish and English with an emphasis on the mode of liaison or bilateral interpreting. Introduces key concepts on language interpretation and the profession of interpreter. Teaches basic skills for interpreting like discourse analysis and oratory skills. Teaches general interpreting strategies like synthesis and anticipation, and specific strategies for liaison or bilateral interpreting. It emphasizes professional standards and self-monitoring. Includes class discussion, practice, observation and analysis of practice, oral presentations, a student portfolio, reflection papers, and a final paper or project.

SPAN 4200**Advanced Business Spanish****3:3:0** **Fall, Spring**

* Prerequisite(s): SPAN 3200 and University Advanced Standing

Focuses on Spanish business terminology, documentation, case studies and transactions. Explores grammar in different genres, emphasizing composition in different writing styles. Prepares students to take the Advanced Business Certification test offered by the Chamber of Commerce of Madrid, Spain.

SPAN 4310**Advanced Spanish for Healthcare Professionals****3:3:0**

* Prerequisite(s): SPAN 3310 and University Advanced Standing

Teaches language structures and terminology specific to Spanish language in the field of healthcare. Examines the cultural issues present in the interactions with Spanish-speaking patients. Focuses on advanced topics, terminology and language structures not covered in Medical Spanish. Prepare students to work with Spanish-speaking patients in future careers in medicine, nursing, or translation/interpretation.

SPAN 4410**Spanish Linguistics****3:3:0**

* Prerequisite(s): [(SPAN 3030 and SPAN 3040) or SPAN 3050] and University Advanced Standing

Provides a comprehensive introduction and overview of the different areas of Spanish Linguistics. Designed for students with a focus in Pedagogy, Business Spanish, Translation, Spanish for the Professions or Literature and Culture. Focuses on the core concepts of the various sub-fields of linguistics applied to Spanish: Phonetics and Phonology, Morphology, Syntax, Semantics, Sociolinguistics, the History of the Language, Dialectology and Pragmatics.

SPAN 4500**Advanced Research and Academic Writing in Spanish****3:3:0**

* Prerequisite(s): SPAN 4050 and University Advanced Standing

Addresses academic research and scholarly writing in the Spanish major. Emphasizes advanced research techniques, textual analysis, style, and argumentation. Prepares students for senior thesis and future graduate study. Lab access fee of \$10 applies.

SPAN 460R**Topics in Hispanic Literature****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Advanced study of literature in Spanish. Addresses key texts representative of the development of genres, themes, or individual authors' works. Engages students in critical analysis and discourse. Possible topics may include Medieval Spanish Literature, the "Generacion del 98," the works of Jorge Luis Borges, or the recent Spanish American novel. May be repeated for a maximum of six credits toward graduation with different topics.

SPAN 4610**Golden Age Spanish Literature****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Examines the literature of Spain from the XVI and XVII centuries. Addresses key texts representative of the social, historical, political, and metaphysical themes of the Spanish Golden Age. Engages students in critical analysis and discourse. May include the study of the novel, short narrative, drama or poetry. Conducted entirely in Spanish.

SPAN 4630**Contemporary Peninsular Literature****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Introduces the major works of Spanish authors in the latter part of the 20th and early 21st centuries. Involves students in close reading and textual analysis through class discussion, written projects, examinations, and oral presentations. Conducted entirely in Spanish.

SPAN 4660**Contemporary Spanish American Literature****3:3:0** **On Sufficient Demand**

* Prerequisite(s): (SPAN 3610 or SPAN 3620 or SPAN 3630 or SPAN 3640) and University Advanced Standing

Introduces the major works of Spanish American writers in the latter part of the 20th and early 21st centuries. Involves close reading and textual analysis through class discussion, written projects, examinations, and oral presentations. Conducted entirely in Spanish.

SPAN 484R**Special Topics in Hispanic Studies****1 to 3:1 to 3:0 to 1**

* Prerequisite(s): (SPAN 3050 or departmental approval) and University Advanced Standing

Presents selected topics in Hispanic Studies. Varies each semester. Topics will reflect the interdisciplinary nature of the Hispanic Studies field. Projects and evaluation will vary according to the topic. May be repeated for a maximum of 6 credits toward graduation with different topics.

SPAN 4900**Capstone Seminar****3:3:0** **Fall, Spring, Summer**

* Prerequisite(s): (18 credits of upper-division Spanish courses or instructor approval) and University Advanced Standing

Explores and reviews comprehensively the undergraduate Spanish course work, providing instruction and testing in specific areas to verify student competency. Completion of a specific reading list required.

Statistics (STAT)

STAT 1040 Introduction to Statistics QL

3:3:0 **Fall, Spring, Summer**

* Prerequisite(s): One of the following: MAT 1000 or MAT 1010 with a grade of C or better within the past two years; an ACT mathematics score of 23 (assuming the test has been taken within the last two years); appropriate placement by the Accuplacer test score

A quantitative literacy course with a statistical theme. Includes descriptive statistics, sampling, and inferential methods. Emphasizes problem solving and critical thinking.

STAT 1045 Introduction to Statistics with Algebra QL

5:5:0 **Fall, Spring**

* Prerequisite(s): Within the past two years; appropriate placement by math placement test or Mathematics Department Advisor.

A quantitative literacy course with a statistical theme. Includes descriptive statistics, sampling, and inferential methods. Emphasizes problem solving and critical thinking. Supplements material in introductory statistics with selected topics from algebra, such as lines, roots, fractions, decimals, etc., when appropriate.

STAT 2040 Principles of Statistics QL

4:4:0 **Fall, Spring, Summer**

* Prerequisite(s): Within the past two years: MATH 1050 or MATH 1055 with a grade of C or higher or appropriate math placement test score.

Includes summarizing data, measures of central location, measures of variation, probability, mathematical expectation, probability distributions, sampling and sampling distributions, estimation, hypothesis testing, analysis of variance, regression analysis, and correlation. Lab access fee of \$30 applies.

STAT 2050 Introduction to Statistical Methods QL

4:4:0 **Fall, Spring**

* Prerequisite(s): MATH 1050 or MATH 1055 with a grade of C or higher within the past two years or a placement by the appropriate placement test (taken within the past two years)

Introductory statistics course for statistics majors. Applies discrete and continuous probability distributions to real data sets. Teaches confidence intervals and hypothesis testing for both one and two sample problems. Covers introductory topics in experimental design, linear regression, nonparametric statistics, and categorical data analysis.

STAT 2060 Introduction to Statistical Computing QL

1:0:3 **Spring**

* Prerequisite(s) or Corequisite(s): STAT 2040 or STAT 2050 with a grade of C or higher

Familiarizes students with the SAS statistical software package. Teaches how to organize, input data, and be able to use reference books to figure out the appropriate way to run the analysis needed using SAS.

STAT 3040 Probability and Statistics for Engineering and the Sciences

3:3:0 **Fall**

* Prerequisite(s): (STAT 2040 or STAT 2050 and MATH 2210 each with a grade of C or higher) and University Advanced Standing

Introduces mathematical statistics for scientists and engineers. Includes counting techniques, random variables, expected values, joint and marginal distributions, point estimation, hypothesis testing, analysis of variance, and regression.

STAT 4000 Applied Regression and Time Series QL

3:3:0 **Spring**

* Prerequisite(s): STAT 2040 or STAT 2050 with a grade of C or higher and University Advanced Standing

Provides students in non-mathematical disciplines the ability to answer typical research questions for their senior projects or graduate-level research. Includes linear regression, transformations, variable selection techniques, logistic regression, indicator variables, multicollinearity, and ARIMA time series. Satisfies the VEE statistics requirement for the Society of Actuaries. Introduces SAS software as a tool for statistical analysis.

STAT 4100 Design of Experiment QL

3:3:0 **Spring**

* Prerequisite(s): STAT 2040 or STAT 2050 with a grade of C or higher and University Advanced Standing

Introduces the design and analysis of randomized comparative experiments. Includes single factor ANOVAs, randomized block designs, latin squares, factorial designs, and nested and split plot designs. Covers mixed models including random effects and computation of expected mean squares to form appropriate F-ratios. Uses SAS statistical program software to perform statistical analysis.

STAT 4200 Survey Sampling QL

3:3:0 **Fall**

* Prerequisite(s): STAT 2040 or STAT 2050 with a grade of C or higher and University Advanced Standing

Introduces survey sampling including simple random sampling, stratified random sampling, systematic and cluster sampling. Discusses ratio and difference estimators, weighting for non-responses, eliminating sources of bias and designing the questionnaire.

STAT 4300 Stochastic Processes QL

3:3:0 **Spring**

* Prerequisite(s): STAT 3040 or STAT 4710 with a grade of C or higher and University Advanced Standing

Teaches how to perform statistical inference on Markov chains, including classifying states, computing mean and variance of recurrence times, and investigating long-run limiting behavior to model physical systems uses the Poisson process. Teaches how to calculate and analyze queuing characteristics of each of the popular queuing models.

STAT 4400 Multivariate Analysis QL

3:3:0 **Spring**

* Prerequisite(s): MATH 2270, STAT 4710, with C or higher, and University Advanced Standing

Introduces multivariate data analysis. Performs inference on data arising from multivariate normal distribution including MANOVA, principal component analysis, factor analysis, canonical correlation analysis, discriminant analysis and cluster analysis. Uses Statistical software R or SAS for data analysis on all the topics covered.

STAT 4500 Nonparametric Statistics QL

3:3:0 **Fall**

* Prerequisite(s): STAT 2040 or STAT 2050 with a grade of C or higher and University Advanced Standing

Introduces nonparametric statistical procedures to apply in situations when parametric statistics (usually based on normality) are not appropriate. Covers types of nonparametric analyses that includes one and two sample hypothesis tests, goodness-of-fit tests, contingency tables, block designs, and regression analysis.

STAT 4600 Statistical Process Control QL

3:3:0 **Fall**

* Prerequisite(s): STAT 2040 or STAT 2050 with a grade of C or higher and University Advanced Standing

Presents the theory and methods of quality monitoring including process capability, control charts, acceptance sampling, quality engineering, and quality design.

STAT 4710 Mathematical Statistics I QL

3:3:0 **Fall**

* Prerequisite(s): STAT 2040 or STAT 2050 with a grade of C or higher, MATH 2210 with a grade of C or higher and University Advanced Standing

Introduces mathematical statistics including random variables, set theory, transformations, expectation, joint and marginal distributions, moment generating functions, and order statistics.

STAT 4720 Mathematical Statistics II QL

3:3:0 **Spring**

* Prerequisite(s): STAT 4710 with a grade of C or higher and University Advanced Standing

Continuation of STAT 4710. Includes estimation, sufficiency, completeness, hypothesis testing, statistical inference with the normal distribution, and Bayesian statistics.

STAT 6010 Theory of Statistics QL

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Mathematics Endorsement 4, or instructor approval

Teaches topics including, but not limited to, probability theory, random variables, functions of random variables, probability distributions and their characteristics, transformations of random variables, Pearson's correlation coefficient, and bivariate normal distribution and regression.

Substance Use Disorder Counseling (SUDC)

SUDC 3430

Psychopharmacology for the Substance Use Disorder Counseling Field

3:3:0

* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing

Addresses basic principles of nervous system function with emphasis on communication between nerve cells. Focuses on therapeutic drugs as well as drugs of abuse to include mechanisms of action and behavioral effects. Includes content on dynamics of addiction.

SUDC 3470

Dynamics of Addiction

3:3:0

* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing

Explores processes contributing to development and maintenance of addiction. Addresses internal (genetics, motivation) and external (family dynamics, peer pressure) contributors. Includes issues related to drug policy, costs of addiction, and prevention/treatment of drug addiction.

SUDC 4300

Introduction to Substance Use Disorder Counseling

3:3:0

* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing

Surveys concepts and practices of major therapeutic systems, with a focus on substance use disorder counseling. Introduces students to the major psychotherapeutic models of both individual and group therapy. Addresses basic counseling issues including ethics and professionalism. Develops skills in relationship development, interviewing, initial assessment and intake procedures.

SUDC 4400

Advanced Substance Use Disorder Counseling

3:3:0

* Prerequisite(s): Admission to the UVU SUDC Program, completion of SUDC 4300 with a C- grade or higher, and University Advanced Standing

Expands concepts and practices of major therapeutic systems, with a focus on advanced substance use disorder counseling. Continues coverage of major psychotherapeutic models of both individual and group therapy. Elaborates on basic counseling issues including ethics and professionalism. Continues to develop skills in relationship development, interviewing, initial assessment, and intake procedures.

SUDC 4710

Introduction to Professional Development

2:2:0

* Prerequisite(s): Admission to the UVU SUDC program and University Advanced Standing

Defines the scope of practice and legal and ethical obligations of substance abuse counselors. Examines the knowledge, skills, attitudes, legal obligations, and limitations of practice of professional substance abuse counselors. Introduces the 12 core functions.

SUDC 4720

Advanced Professional Development

3:3:0

On Sufficient Demand

* Prerequisite(s): Admission to the UVU SUDC program, completion of SUDC 4710 with a C- grade or higher, and University Advanced Standing

Expands on professional issues in Substance Use Disorder Counseling. Focuses on the 12 core functions of substance abuse, ethics, theories of substance abuse, and theory and practice of individual and group counseling.

SUDC 481R

Internship

1 to 8:0:5 to 40

* Prerequisite(s): Admission to the UVU SUDC program, completion of SUDC 4710 with a C- grade or higher, instructor approval, and University Advanced Standing

Provides practical and research experience in the substance use disorder counseling field with a focus on the 12 core functions of substance use disorder counseling. Supervised by agency representative. Internships must be approved by the UVU SUDC program and written contracts must be signed. Requires students pursuing the SUDC license to complete a minimum of 200 hours of field experience. Requires students pursuing the ASUDC license to complete a minimum of 350 hours of field experience. May be repeated for a maximum of 8 hours toward graduation.

Land Surveying (SURV)

SURV 1020

Introduction to Geomatics

1:1:0

Fall

Orientation to the field of Geomatics including Boundary Surveying, Geodesy, Forensic Surveying, Construction Surveying, Geographic Information Systems (GIS), and other types of surveys. Involves presentations by community/industry professionals encompassing the Geomatics occupation. Teaches college success principles and practices for the Geomatics program. Lab access fee of \$35 for computers applies.

SURV 2010

Land and Survey History

3:3:0

Fall

* Prerequisite(s): HIST 1740 or HIST 1700 or departmental approval and matriculation into the Geomatics BS degree

Explores the field of Geomatics and Surveying through the writings of Egyptian, Greek, Roman, European, English, and American surveyors and historians. Discusses how, what, and why these surveyors did what they did and how their contributions impacted the current practice of surveying, including the shaping of private land ownership and the development of the structure of our nation. Presents Utah land history including, the rectangular system, pioneer city plats, and other important surveys of Utah such as territorial, state, and Spanish and Mexican Grant boundaries. Lab access fee of \$35 for computers applies.

SURV 2030

Geodesy

3:3:0

Fall

* Prerequisite(s): EGD 2400, MATH 1060, MATH 1100, SURV 1020, and matriculation into the Geomatics BS degree

Examines the science of geodesy. Includes size and shape of the earth, spherical and ellipsoidal geometry, the celestial sphere, and astronomical trigonometry. Involves Global Positioning Systems theory for computing of position on the earth using three-dimensional coordinate systems, reference coordinate systems, state plane coordinates, transformations, spheroid, ellipsoid, geoid datums, celestial sphere, orthometric heights and leveling. Covers basic properties and characteristics of the most common map projections with emphasis on the projections used in State Plane Coordinates such as Lambert Conformal, Universal Transverse Mercator (UTM). Exposes the student to survey applications of practical astronomy including time systems, astronomical azimuth, and Solar/Polaris observations and calculations.

SURV 2210

Photogrammetry

3:3:0

Fall

* Prerequisite(s): EGD 1400, (MATH 1050 or MATH 1055), and matriculation into the Geomatics BS degree

Examines principals of photogrammetry as applied to surveying and mapping. Covers geometry of vertical and aerial photographs, stereoscopic parallax, geometry of tilted photographs, stereoplotter mapping, close-range photographic analysis, planimetric and topographic maps, flight planning, digital photogrammetry, aerial cameras and camera calibration, and the theory and techniques of orientation. Introduces digital imagery, aerial triangulation, and the history of photogrammetry. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

SURV 2220

Remote Sensing

3:3:0

Spring

* Prerequisite(s): MAT 1010 and matriculation into the Geomatics BS degree

Introduces and describes digital imagery, aerial triangulation, Remote Sensing and their history. Covers principles of Remote Sensing and the integration of Remote Sensing with Geographic Information Systems (GIS). Teaches a fundamental knowledge of aerial photography, photogrammetry, multispectral, Hyperspectral, Thermal, RADAR, LiDAR image analysis. Identifies various equipment and instrumentation used in producing Remote Sensing products. Describes image preprocessing and image enhancements as well as differentiating and classifying various accuracy assessment techniques. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

Course Descriptions

SURV 2310

Surveying US Public Lands

3:3:0

Fall

* Prerequisite(s): EGDT 1400, MATH 1060, and matriculation into the Geomatics BS degree

Studies U.S. Public Land Survey System (PLSS) as described in the current official Department of the Interior-Bureau of Land Management (BLM) Manual of Instructions for Surveying Public Lands with emphasis on federal, state, and other applicable laws, evidence, resurveys, and subdivision of sections. Covers a detailed study of general and special instructions, irregularities in subdivisions, lost and obliterated corners, single and double proportion methods, monumentation, riparian boundary laws and rights, hiatuses, mineral surveys, and official survey documents. Introduces Spanish and Mexican land grants, as well as state and national boundaries. Lab access fee of \$35 for computers applies.

SURV 2320

Property Descriptions and Public Land Records

3:3:0

Fall

* Prerequisite(s): ENGL 1010, EGDT 1400, and matriculation into the Geomatics BS degree

Involves analysis, interpretation, and writing of legal descriptions with proper form, controlling elements, metes-and-bounds, sectionalized land descriptions, easements, and rights-of-way. Discusses different types of descriptions, junior-senior rights in descriptions, latent & patent ambiguities, basis of bearing and interpretation, easements, and reversions. Applies practical exercises and case studies. Studies the responsibilities of the professional land surveyor regarding due diligence in searching public land records and performing applicable legal research. Examines public records and recording laws. Emphasizes title search to patent and includes zoning laws relating to land. Involves tour(s) of local record systems and/or public offices..

SURV 3010

Measurement Analysis and Adjustments

4:4:0

Spring

* Prerequisite(s): EGDT 2400, MATH 1060, MATH 1100, STAT 2040, matriculation into the Geomatics BS degree, and University Advanced Standing

Examines observation theory, and observational error analysis. Discusses the theory of measurement errors, principles of error propagation, variance and covariance, and the theory of the least squares method. Studies variances and co-variances of observed, derived, and adjusted quantities; regression analysis, and polynomial curve fitting. Involves systems of linear equations, linearization, and iteration of nonlinear equations; adjustment validation using hypothesis testing; modeling of surveying problems using different techniques of least squares and also presents several methods used to fit survey data to mathematical and survey models. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

SURV 3030

Land Development Planning, Platting, and Mapping

3:3:0

Spring

* Prerequisite(s): EGDT 1040, EGDT 1400, matriculation into the Geomatics BS degree, and University Advanced Standing

Discusses land use planning techniques for residential and commercial developments. Subdivisions, industrial parks, and commercial complexes are studied along with the associated governmental regulations, codes, rules, and approval processes and procedures. Requires a mock public presentation on course projects. Uses current surveying/engineering software to develop and plot drawings including; subdivision plats, records of survey, ALTA surveys, topographic site surveys, and other maps. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

SURV 3220

Control Surveys

3:3:0

Fall

* Prerequisite(s): SURV 2030, SURV 3010, matriculation into the Geomatics BS degree, and University Advanced Standing

Applies principles and theories presented in prerequisite courses and moves the student to an advanced applications level. Studies the establishment of control surveys and survey networks. Reviews compass rule adjustment computation, matrix methods and least squares adjustment methods, random and systemic errors in measuring, and error propagation. Offers field applications of Radial and GPS surveying systems: static, kinematic and RTK procedures, data collection, post processing coordinate transformation, creation, and report generation. Teaches practical applications of network adjustment, control surveys, triangulation, and precision traverses with precise elevation control. Requires demonstration of field skills and techniques. Software fee of \$18 applies. Lab access fee of \$35 for computers applies.

SURV 3230

Construction and Route Surveys

3:3:0

Spring

* Prerequisite(s): EGDT 2400 and MATH 1060 or EGDT 1610, matriculation into the Geomatics BS degree OR department approval, and University Advanced Standing.

Applies principles and theories presented in prerequisite courses and moves the student to an advanced field applications level. Develops computations and practical applications covering Route and Construction surveys. Includes computer solutions and applications from plans and specifications using modern data collection and coordinate geometry (COGO) computer software. \$35 course fee for computers, and \$18 course fee for software applies.

SURV 3340

Boundary Law

3:3:0

Spring

* Prerequisite(s): Matriculation into the Geomatics BS degree required and University Advanced Standing

Studies the responsibilities of the land boundary surveyor in protecting rights, title, and interest of the land; riparian and littoral rights, bona-fide rights, boundary easements and reversions, conveyances; sequential and simultaneous. Presents principles and rules of evidence. Includes monuments and monumentation, boundary locations, and procedures used to establish new boundaries and locate existing boundaries. Lab access fee of \$35 for computers applies.

SURV 3400

Surveying Applications and Field Techniques III

3:2:3

Fall

* Prerequisite(s): EGDT 2400, GIS 3600, and University Advanced Standing

Focuses on specific surveying applications and field survey techniques employed by surveyors on various field and office tasks including horizontal and vertical networks and traverses, route surveys, and topographic/site surveys, and machine control methods. Teaches the construction, care, maintenance, calibration, effective setup and observation methods used for; global positioning systems (GPS), total robotic stations, 3D laser scanners, automatic levels, modern data collectors, coordinate geometry (COGO) and computer-aided drafting (CAD) software and other geospatial surveying systems and instruments. Lab access fee of \$35 applies. Software fee of \$25 applies.

SURV 4340

Surveying Legal Principles

3:3:0

Spring

* Prerequisite(s): SURV 2320, SURV 3340, ENGL 2310, matriculation into the Geomatics BS degree, and University Advanced Standing

Focuses on researching the body of law as it applies to the practice of surveying. Covers common law associated with the Statute of Frauds, Constructive Notice, and Surveyor/Attorney interaction and roles. Discusses principles and concepts of dispute and conflict resolution as well as the specific role of the expert witness. Reviews the fact finder role of the surveyor in research/investigation techniques and sources while focusing on facts of a case and the applicable laws. Completers will work on case studies and prepare a final legal research paper. Involves tour(s) of a law library.

SURV 4400

Surveying Applications and Field Techniques IV

3:2:3

On Sufficient Demand

* Prerequisite(s): SURV 3400 and University Advanced Standing

Focuses on projects both lab/office and field work. Uses a mentor based teaching model to engage in several projects from inception to final deliverables. Requires students to make project decisions individually and as a team regarding each aspect of the various assigned projects. Requires each team member to demonstrate their own ability to perform all tasks required to complete the assigned projects within a given time frame resulting in deliverables that meet a pre-professional level of competency. Lab access fee of \$35 applies. Software fee of \$25 applies.

SURV 4500**The Surveying Practice****3:3:0****Spring**

* Prerequisite(s): LEGL 3000, Department Approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Examines the planning, organizing, and application of field and office practices, and develops a practical business plan including policies and procedures associated with a typical professional surveying firm providing surveying services to the public and private sector. Reviews and applies a myriad management principles and functions including: operations, financial, marketing, human resource, project, and risk management. Exposes the student to the functions of typical financial software. Explores business concepts specific to surveying; pricing, fees, bidding, proposals, contracts, and professional liabilities. Involves developing a business plan for a professional surveying firm. Lab access fee of \$35 for computers applies.

SURV 451R**Geomatics Lecture Series****.5 to 1:.5 to 1:0****Fall, Spring**

* Prerequisite(s): Department Chair Approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Consists of lectures presented by guest speakers or faculty on various topics in Geomatics including but not limited to: land surveying, mapping, remote sensing, geodesy, legal issues, photogrammetry, and various new and emerging technologies. May be repeated for a maximum of 1 credit toward graduation.

SURV 455G**Global Professional Ethics and Liabilities****3:3:0****Fall**

* Prerequisite(s): PHIL 2050, LEGL 3000, departmental approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Teaches the code of ethics adopted by the Utah Council of Land Surveyors (UCLS). Explains meaning and attributes of professionalism along with the ethical, moral, and social responsibilities of surveyors. Integrates laws for practicing surveying with professional ethics as well as the roles of multi-culturalism and globalization. Includes model standards (international, national, and state), professional survey liability cases, safety, risks, professional client relationships, bribery, global engagement, contracts, and intellectual property. Involves lecture, readings, case studies, and other media.

SURV 481R**Geomatics Internship****1 to 8:0:5 to 40****On Sufficient Demand**

* Prerequisite(s): Junior or Senior Standing, departmental written approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Provides opportunities to apply classroom theory and principles to actual on-the-job work experience, on a paid or non-paid basis, in the field of Geomatics. Emphasizes the establishment of goals, learning objectives, and expected outcomes with their Faculty Sponsor at the beginning of the internship and/or semester. Involves the submittal of a comprehensive written report at the end of the semester consisting of an evaluation of original goals and objectives and reflects on the achieved outcomes gained from the work experience. May be repeated for a maximum of 8 credits toward graduation. May be graded credit/no credit.

SURV 490R**Professional Topics in Geomatics****3 to 4:2:2 to 4****On Sufficient Demand**

* Prerequisite(s): Department Chair Approval, matriculation into the Geomatics BS degree, and University Advanced Standing

Studies a chosen topic in Geomatics. The topic may vary depending on demand. May include research, experimentation, analysis, and reporting. May be taken more than once for different topics and for a maximum of 8 credits toward graduation.

SURV 4930**Senior Geomatics Capstone****4:4:0****Spring**

* Prerequisite(s): University Advanced Standing, Senior Standing, and Departmental Approval

Provides an opportunity for a senior Geomatics student to participate in a significant and current research project which will advance the field of Geomatics. Includes independent study and laboratory/field work as necessary and must be approved and supervised by an assigned faculty mentor. Culminates in the preparation of a written paper and oral presentation describing the results of the research and/or completed project to project stakeholders, interested students, faculty, administration, the professional Geomatics community, and the broader general audience. Lab access fee of \$35 applies. Software fee of \$25 applies.

Social Work (SW)

SW 1010**Introduction to Social Work****3:3:0****Fall, Spring, Summer**

Introduces social work theory and practice. Examines the relationship between policy and practice in the context of nine major fields of social work. Considers challenges faced by today's practitioners. Explores current career opportunities in the field.

SW 2100**Human Behavior and the Social Environment I****3:3:0**

* Prerequisite(s): Admission into the BSW program

Presents major theoretical concepts about human development and environmental factors influencing development from the social and behavioral sciences and their applications to micro, mezzo, and macro social work practice. Focuses on the first half of the life cycle, the prenatal period through adolescence. The first in a two course human behavior and the social environment sequence.

SW 275R**Survey of Current Topics****3:3:0****On Sufficient Demand**

* Prerequisite(s): (ANTH 101G or PSY 1010 or SOC 1010 or SW 1010) and ENGL 1010

Presents selected topic in Social Work and will vary each semester. Approaches subjects from a cross-disciplinary perspective. Requires a project demonstrating competency in the specific topic. May be repeated for nine credits toward graduation.

SW 3000 (Cross-listed with: FAMS 3000)**Social Work Practice I****3:3:0****Fall, Spring, Summer**

* Prerequisite(s): Admission to the BSW program or declared major in Family Science and University Advanced Standing

Introduces the basic knowledge, values, and skills needed for generalist social work practice. Focuses on working with individuals using the planned change process within the strengths perspective. Assists students in understanding the social and environmental conditions that negatively affect clients and empowering clients to take steps to enhance their own well-being. Provides content on the evaluation of social work practice.

SW 3100**Social Work Practice II****3:3:0****On Sufficient Demand**

* Prerequisite(s): SW 3000, Admission to the BSW program, and University Advanced Standing

Focuses on generalist social work practice with emphasis on small groups. Uses the planned change process to assist oppressed groups within the values and ethics of the profession. Includes content on evaluation of practice.

SW 3200**Social Work Practice III****3:3:0****On Sufficient Demand**

* Prerequisite(s): SW 3000, SW 3100, Admission into the BSW program, and University Advanced Standing

Explores how generalist practice relates to the various levels of practice and how it particularly relates to macro practice. Emphasizes macro issues such as community organization and development, socio-cultural interactions, legislative matters, and other areas related to policy practice. Particular attention will be given to areas of practice that involve disenfranchised groups and how to promote social justice for these groups at the macro level.

Course Descriptions

SW 3400

Human Behavior and the Social Environment II

3:3:0

* Prerequisite(s): SW 2100, Admission into the BSW program, and University Advanced Standing

Presents major theoretical concepts about human development and environmental factors influencing development from the social and behavioral sciences and their applications to micro, mezzo, and macro social work practice. Focuses on the second half of the lifecycle, young adulthood through older adulthood.

SW 3500

Social Welfare Policies and Services

3:3:0 **Fall, Spring**

* Prerequisite(s): Admission into the BSW program and University Advanced Standing

Analyzes current social policy within the context of historical and contemporary factors that shape policy. Examines major social forces and institutions as they relate to and determine social policy emphasizing social welfare services in an industrialized society. Evaluates social welfare frameworks in light of the principles of social and economic justice. Identifies effect of social policy on generalist social work practice.

SW 3510

International Social Work

3:3:0 **On Sufficient Demand**

* Prerequisite(s): (ENGL 2010 or ENGL 2020 with a C + grade or higher), SW 1010, and University Advanced Standing

Investigates ways in which micro and macro skills can be integrated via a social development model to address social welfare issues in international settings. Includes the development of interventions beginning at the community level and moving toward global as well as individual practice. Focuses on the enhancement of practice knowledge and skills in program design, development, implementation and evaluation. Addresses basic resources such as food, shelter, potable water and sanitation, as well as sustainable economic development, inter-ethnic conflict, global indebtedness, ethnoconscious organizational development, and empowerment/consentization as a method of intervening in social challenges.

SW 3600

Ethics and Values in Social Work Practice

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Admission into the BSW program and University Advanced Standing

Acquaints students with the values of the field of social work and the Code of Ethics of the National Association of Social Workers and to help them begin to develop the ability to effectively deal with the ethical issues they will be confronted with in professional practice. Increases students awareness of new and emerging ethical issues and provide tools and methodologies for ethical decision-making. Addresses ethical dilemmas involving conflict between personal values, agency guidelines, professional standards, and cultural differences. Includes discussion of models for ethical decision-making, the NASW Code of Ethics, as well as the codes of ethics of other human services professional organizations.

SW 371G

Diversity Issues in Social Work Practice

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Admission into the BSW program and University Advanced Standing

Increases understanding and appreciation of diverse client populations, the nature of cultural identity, group membership and differential access to resources, and strategies to combat discrimination, oppression and economic deprivation and to promote social and economic justice. Examines socio-identities including: race, ethnicity, religion, gender, social class, sexual orientation, abilities, and age. Includes discussion of oppressive and discriminatory experiences as well as resilience and strengths encountered by different groups. Explores similarities, differences, and controversies between diverse populations in the context of their personal values and professional policy and practice.

SW 3750

Child Abuse Neglect and Domestic Violence

3:3:0 **Fall, Spring**

* Prerequisite(s): SW 1010 and University Advanced Standing

Reviews definitions of child abuse and neglect and other forms of domestic violence using a multidisciplinary perspective. Explores theories explaining the causes of abuse/neglect and domestic violence. Identifies indicators of abuse/neglect and aids students in making assessments and intervening in situations of abuse/neglect and domestic violence. Educates students in mandatory reporting laws and the workings of the child welfare system in efforts to intervene and prevent abuse/neglect. Addresses current policy issues pertinent to child abuse/neglect and domestic violence and identifies effective methods in which students can advocate for social change within the social and child welfare system.

SW 4450

Introduction to Child Welfare I

3:3:0 **On Sufficient Demand**

* Prerequisite(s): SW 1010 and (ENGL 2010/2020 with C + or higher)

Prepares students to be effective interventionists in family systems where children are at risk of abuse, neglect, or dependency. Examines four part Child Welfare CORE Competency based series. Provides students with the basic knowledge, skills, and abilities necessary for successful performance as child welfare workers.

SW 4460

Introduction to Child Welfare II

3:3:0

* Prerequisite(s): SW 1010 and (ENGL 2010/2020 with C + or higher)

Addresses the basic effects of abuse, neglect and separation on child development and will also address the knowledge and skills required for child welfare workers to provide services related to child placement, including risk assessment, attachment, separation, loss, grief, family intervention, working with foster care givers, and reunification and reintegration services. Teaches strategies to reduce trauma and promote effective child placement.

SW 4500

Crisis Intervention

3:3:0 **On Sufficient Demand**

* Prerequisite(s): [SW 1010 and (ENGL 2010 or ENGL 2020 with a minimum C+ grade) or instructor approval] and University Advanced Standing

Introduces the student to the philosophy, knowledge, techniques, and skills of crisis intervention. Provides opportunities through projects, written assignments, role playing, and first-hand interaction with professional crisis workers by which the students may deepen their understanding of this demanding method of social work practice.

SW 4600

The DSM of Mental Disorders

3:3:0 **On Sufficient Demand**

* Prerequisite(s): SW 1010, PSY 3400, (ENGL 2010 or ENGL 2020 with a C+ grade or higher), and University Advanced Standing

Provides an overview of the Diagnostic and Statistical Manual of mental disorders (DSM) based on clinical diagnosis. Teaches DSM based clinical diagnosis. Teaches DSM diagnoses including diagnostic criteria, prevalence rates, gender and cultural differences in prevalence and symptomatology, disease course, and differential diagnosis. Uses class discussions, videotapes of individuals with different DSM diagnoses, and case scenarios.

SW 4700

Case Management in Social Work Practice

3:3:0 **Fall, Spring**

* Prerequisite(s): SW 1010 and University Advanced Standing

Provides the conceptual foundation for providing case management services and crisis intervention to individuals in various population groups.

SW 475R

Current Topics in Social Work

3:3:0 **On Sufficient Demand**

* Prerequisite(s): SW 1010 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Presents selected topic in Social Work and will vary each semester. Requires a project demonstrating competency in the specific topic. May be repeated with different topics for 9 credits toward graduation.

SW 4800

Integrated Seminar I

1:1:0 **Fall, Spring, Summer**

* Prerequisite(s): SW 3000, admission to the BSW program, and University Advanced Standing

* Corequisite(s): SW 481R

Provides a generalist base for social work practice that involves an on-site, supervised field agency practicum and a weekly seminar. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. First of two courses in field practicum sequence. Graded Credit/No Credit.

SW 481R**Field Placement****1 to 8:0:5 to 40**

* Prerequisite(s): Admission to the BSW program and University Advanced Standing

* Corequisite(s): SW 4800 or SW 4850

Provides a generalist base for social work practice that involves an on-site, supervised field agency practicum. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. Performs a minimum of 225 hours of supervised social work in a local agency setting. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit. Course fee of \$84 applies for practical experience applies.

SW 4850**Integrated Seminar II****1:1:0**

* Prerequisite(s): Senior Standing in the BSW program, SW 4800 with B- or higher, and University Advanced Standing

* Corequisite(s): SW 481R

Provides a generalist base for social work practice that involves an on-site, supervised field agency practicum and a weekly seminar. Assists the student to integrate classroom learning with learning that takes place in the on-site field practicum. Provides an integrative classroom experience for students with a clinical interest currently working in related jobs or volunteer experiences in human service agencies or work sites. Second of two courses in the field practicum sequence.

SW 489R**Advanced Research in Social Work****1 to 3:1 to 3:0**

* Prerequisite(s): (SW 1010 and BESC 3020 with a C grade or higher); ENGL 2010 or ENGL 2020 with C+ grade or higher; University Advanced Standing; Instructor approval

Expands research experience by either (1) significantly assisting on a faculty member's research project or (2) carrying out an independent research project of the student's design under faculty mentorship. Requires individual initiative and responsibility. Includes limited formal instruction. May include literature searches, completion of the IRB application process, materials creation, data collection, data analysis, writing a publishable paper, preparing a poster, preparing an oral presentation, or other options as approved by the instructor. May be repeated for a maximum of 6 credits toward graduation.

SW 490R**Independent Studies****1 to 3:1 to 3:0****On Sufficient Demand**

* Prerequisite(s): Instructor approval, department chair approval, and University Advanced Standing; for Behavioral Science Bachelor Degree students only

For qualified students who wish to undertake a well-defined project or directed study related to an area of special interest. Requires individual initiative and responsibility. Includes limited formal instruction and faculty supervision. Projects may include writing a publishable paper, passing a competency exam, producing an annotated bibliography, oral presentation, or other options as approved by the instructor. May be repeated for a maximum of 6 credits.

SW 6000**Social Work Practice I--Individuals****3:3:0**

* Prerequisite(s): Admission to the MSW program

Provides an overview of clinical social work and the practice, knowledge, and skills needed to successfully treat clients. Emphasizes interpersonal and interviewing skills, the generalist planned change process, utilizing a strengths perspective, values and ethics, and cultural competence.

SW 6020**Social Work Practice II--Groups****3:3:0**

* Prerequisite(s): SW 6000

Introduces the theory and practice of social work in groups. Prepares students for practice by helping them develop the knowledge, values, and skills needed for generalist social work practice with groups. Utilizes evidence-based practice in developing group leadership skills.

SW 6030**Social Work Practice III--Advanced Practice with Individuals and Families****3:3:0**

* Prerequisite(s): SW 6000

Examines clinical approaches most often used with clients. Emphasizes the theoretical basis of treatment modalities and how to apply them in practice.

SW 6040**Social Work Practice IV--Advanced Practice with Groups and Complex Cases****3:3:0**

* Prerequisite(s): SW 6000; SW 6020

Builds on the skills and knowledge for generalist social work practice with emphasis on advanced practice with small groups and complex cases. Implements the planned change process to target workable intervention strategies. Identifies group problems such as scapegoating, manipulation, resistance, and how to solve those problems.

SW 6050**Social Work Practice V--Advanced Practice with Organizations and Communities****3:3:0**

* Prerequisite(s): SW 6300

Analyzes multiple approaches social workers use to influence groups, organizations, communities, and systems. Examines concepts, theories, and models of macro level practice and skills for addressing complex practice and organizational situations.

SW 6200**Human Behavior and the Social Environment I****3:3:0**

* Prerequisite(s): Admission to the MSW Program

Presents biological and social science concepts and how they influence human behavior, particularly regarding social environments. Analyzes human behavior by understanding how people process information, what motivates them, how they respond to stress, and what conditions bring about successful change. Applies this information to properly assess the person, their environment, and how that environment has influenced their actions.

SW 6210**Human Behavior and the Social Environment II****3:3:0**

* Prerequisite(s): Admission to the MSW Program

Explores biological and social science concepts and how they influence human behavior, particularly regarding social environments. Investigates varying social environment factors, such as culture, ethnicity, stress, adaptation, and gender. Examines biological, psychological, social, and spiritual theories to develop accuracy in assessments.

SW 6300**Social Welfare Policy and Analysis****3:3:0**

* Prerequisite(s): Admission to the MSW program

Analyzes current social policy within the context of historical and contemporary factors. Examines major social forces and institutions as they relate to and determine social policy emphasizing social welfare services within current U.S. society. Evaluates social welfare frameworks in light of the principles of social and economic justice and how this impacts individual, group, and community well-being.

SW 6320**Social Work with Latino--Pacific Islanders--and other Communities of Color****3:3:0**

* Prerequisite(s): SW 6000

Evaluates U.S. immigration historical trends and policies and immigration reform challenges, with a major focus on immigrant Latino populations. Teaches culturally competent practice and essential skills in advocacy and policy analysis. Focuses on communities of color.

SW 6400**Social Work Research Methods****3:3:0**

* Prerequisite(s): Admission to the MSW Program

Addresses advanced quantitative and qualitative methods to prepare students for carrying out research in agencies. Includes critical analysis of scholarly literature and applying it in clinical practice. Explains the importance of both practice and program evaluation in a clinical setting.

SW 6490**MSW Advanced Standing Bridge Course****4:4:0****Summer**

* Prerequisite(s): Acceptance into the MSW Advanced Standing program

Supplements the knowledge, skills, and values foundation developed in participants' BSW programs. Reviews content learned at the baccalaureate level and material that will be helpful in preparing students for the concentration year of the MSW program. Prepares MSW students to transition from the foundation year to the advanced concentration courses. Addresses topics necessary for advanced MSW- level practice and to support effective and ethical micro- and macro-level interventions. Covers key content addressed in SW foundation courses within the BSW program. This course is open to Advanced Standing students only.

Course Descriptions

SW 6491

MSW Advanced Standing Skills Course

4:4:0 Summer

* Prerequisite(s): Acceptance into the MSW Advanced Standing program, SW 6490

Develops students' applied skills in Social Work practice. Integrates foundational social work approaches to practice, such as empowerment, strengths-based, and collaborative/person-centered skills. Assures that incoming Advanced Standing students have mastered foundational competencies in social-work practice skills with various types of human systems. Prepares MSW students to transition from the foundation year to the advanced concentration courses. Open to Advanced Standing students only.

SW 6500

Addictions

2:2:0

* Prerequisite(s): SW 6000

Teaches how to reduce or eliminate the detrimental impact of substance use disorders at multiple levels such as families, groups organizations, and communities. Teaches the knowledge and skills that assist in the addiction reduction and elimination effort through an ability to identify, assess, intervene, and evaluate those struggling with substance abuse and dependency throughout the lifespan.

SW 6510

Clinical Issues in Substance-Related

Addictions

2:2:0

* Prerequisite(s): SW 6500

Addresses the advanced assessment and treatment of clients affected by the use and abuse of alcohol and other substances. Examines addictions from a bio-psycho-social perspective. Explains different models of addictive behavior for assessment and treatment. Covers assessment factors including gender, age, class, race, and cultural factors. Examines the evidence base for particular practice modalities for family, group, and individual treatment. Analyzes treatment needs of different client populations, including youth, dual-diagnosed adults, and family members. Explains self-help and twelve-step programs and the diversified roles of social workers.

SW 6520

Clinical Issues in Non-Substance Related

Addictions

2:2:0

* Prerequisite(s): SW 6500

Addresses the advanced assessment and treatment of clients affected by the use and abuse of non-substance addictions. Examines addictions from a bio-psycho-social perspective. Explains different models of addictive behavior for assessment and treatment. Covers assessment factors including gender, age, class, race, and cultural factors. Examines the evidence base for particular practice modalities for family, group, and individual treatment. Analyzes treatment needs of different client populations, including youth, dual-diagnosed adults, and family members. Explains self-help and twelve-step programs and the diversified roles of social workers.

SW 6530

Psychopharmacology

2:2:0

* Prerequisite(s): Admission to MSW program

Addresses principles of nervous system function with emphasis on communication between nerve cells. Focuses on therapeutic drugs as well as drugs of abuse to include mechanisms of action and behavioral effects. Teaches content on dynamics of addiction within a pharmacological context.

SW 6610

Spirituality in Social Work

2:2:0

* Prerequisite(s): Admission to MSW program

Addresses a theistic model for social work clinical practice. Examines various religious and spiritual world views and their application to counseling and psychotherapy. Emphasizes the need for increased sensitivity and competence in working with clients for whom faith-based interventions are desired.

SW 6620

Marriage and Family Therapy

2:2:0

* Prerequisite(s): SW 6000

Introduces a skills-based course in the field of marriage and family therapy. Trains prospective clinicians to work with individuals, couples, and families from a systems focus. Reviews the history of family therapy and the predominant models of the field. Emphasizes ethical and cultural issues in the realm of family therapy.

SW 6630

Mental Health Diagnosis

2:2:0

* Prerequisite(s): Admission to MSW program

Explains the major issues in the area of psychopathology and diagnosis of mental disorders from a bio-psycho-social perspective. Covers influences on the incidence, manifestation, and course of the most commonly presented mental disorders and the differential effect of these factors on diverse populations. Examines mental illness through the experience of family members and significant others.

SW 6640

Crisis Intervention

2:2:0

* Prerequisite(s): Admission to MSW program

Introduces the philosophy, knowledge, techniques, and skills of crisis intervention. Provides opportunities through projects, written assignments, role playing, and first-hand interaction with professional crisis workers to deepen understanding of this demanding method of social work practice.

SW 6650

Couples Therapy

2:2:0

* Prerequisite(s): SW 6000

Trains prospective clinicians in working with couples in a therapeutic capacity. Teaches the basic skills, dominant models, and unique challenges of couples therapy. Examines essential skills and techniques in working with dating, cohabiting, premarital, and marital couples. Examines unique situations of therapy such as addictions, affairs, and sexual issues. Addresses issues of diversity in couples therapy.

SW 6660

Family Violence Across the Lifespan

2:2:0

* Prerequisite(s): Admission to the MSW program

Examines interpersonal violence within the context of familial role and across at-risk populations. Emphasizes a variety of family systems and the impact that issues such as divorce, substance abuse, child abuse, and incarceration have on the various units in the family system. Considers issues and builds practice skills related to family support services, child maltreatment, and substitute care.

SW 6700

Advanced Practice with Communities of Color and Other Diverse Populations

2:2:0

* Prerequisite(s): SW 6000, SW 6320

Explains diversity and difference, power and privilege, and oppression. Encourages self-examination within these systems as an essential foundation for culturally competent social work practice. Introduces issues related to service utilization within communities of color and providing effective interventions for historically underserved populations.

SW 6710

Policy Practice with Communities of Color and Other Diverse Populations

2:2:0

* Prerequisite(s): SW 6300

Emphasizes macro practice skills in working with different communities of color through empowerment and collaborative efforts. Explores the historical trends related to institutional discrimination and how this is expressed in current society as policy and cultural norms. Explains a variety of strategies for increasing participation across systems from communities of color and how to empower these groups without resorting to professional imperialism.

SW 6720

Engaging and Empowering the Latino Community

2:2:0

* Prerequisite(s): SW 6320

Builds on the generalist practice, research, policy, and human behavior courses from the foundation year. Includes how to integrate content with clinical knowledge and skills relevant to practice with Latinos. Provides guidelines for application of content to Latinos and practicum cases. Identifies challenges that surface in those applications. Focuses on increasing awareness of how cultural backgrounds, values, traditions, and filters influence worldviews.

SW 6810

Integrative Seminar I

1:1:0

* Prerequisite(s): Admission to the MSW program

* Corequisite(s): SW 6910

Integrates and applies the knowledge and skills obtained from coursework to a social service agency setting. Examines practice experiences such as experiences with people of different cultures/races/ages, ethical dilemmas, emotional and cognitive responses to agency experience, etc. Processes issues that may arise during students' field experiences.

SW 6820

Integrative Seminar II

1:1:0

* Prerequisite(s): SW 6810

* Corequisite(s): SW 6920

Builds on Integrated Seminar I. Integrates and applies the knowledge and skills obtained from coursework to a social service agency setting. Examines practice experiences such as experiences with people of different cultures/ races/ages, ethical dilemmas, emotional and cognitive responses to agency experience, etc. Processes issues that may arise during students' field experiences.

SW 6830

Integrative Seminar III

1:1:0

* Prerequisite(s): SW 6820

* Corequisite(s): SW 6930

Provides opportunities for integration of social work course work and field practicum experiences. Features in-depth analysis of specific social work competencies within the students' domains of practice. Teaches the domains of social work practice that include: assessment, interventions, program policies, and service delivery and leadership in the chosen practice area. Provides guidance in practicum and seminar.

SW 6840

Integrative Seminar IV

1:1:0

* Prerequisite(s): SW 6830

* Corequisite(s): SW 6940

Builds on Integrative Seminar III. Provides opportunities for integration of social work course work and field practicum experiences. Features in-depth analysis of specific social work competencies within the students' domains of practice. Teaches the domains of social work practice that include: assessment, interventions, program policies, and service delivery and leadership in the chosen practice area. Provides guidance in practicum and seminar.

SW 6910

Foundation Field Practicum I

4:0:12

* Prerequisite(s): Admission to the MSW program

* Corequisite(s): SW 6810

Offers engaged field education as the central form of instruction and learning to socialize students to become practitioners. Integrates social work theory with practice. Reinforces the purposes, values, and ethics of the social work profession. Fosters the integration of empirical and practice-based knowledge to promote the development of professional competence.

SW 6920

Foundation Field Practicum II

4:0:12

* Prerequisite(s): SW 6910

* Corequisite(s): SW 6820

Provides opportunity to apply classroom learning and to integrate theory with practice. Aligns with Council on Social Work Education standards for field education. Reinforces the purposes, values, and ethics of the social work profession. Promotes the development of professional competence.

SW 6930

Advanced Field Practicum I

4:0:12

* Prerequisite(s): Admission to the MSW program

* Corequisite(s): SW 6830

Provides agency-based field instruction for advanced learning and practice opportunities relevant to social work. Provides opportunity to integrate and apply advanced generalist practice theory within field experiences. Advances knowledge and skills in practice, research, and evaluation across multi-level systems. Combines field experience, traditional classroom, field supervision, online activities and assignments, and self-directed learning per the field practicum manual.

SW 6940

Advanced Field Practicum II

4:0:12

* Prerequisite(s): SW 6930

* Corequisite(s): SW 6840

Continues agency-based field instruction and classroom seminar for advanced learning and practice opportunities relevant to social work. Provides opportunity to integrate and apply advanced generalist practice theory within field experiences. Increases knowledge and skills in practice, research, and evaluation across multi-level systems. Combines field experience, traditional classroom, field supervision, online activities, assignments, and self-directed learning per the field practicum manual.

SW 6950

MSW Capstone

2:2:0

* Prerequisite(s): SW 6000, SW 6300, SW 6400

Synthesizes course work and field practicum into a final capstone project. Emphasizes readiness for graduate level employment through networking, developing a resume, practicing interviewing skills, and preparing for the advanced clinical social work exam.

Technology Management (TECH)

TECH 1000

Experiential Credit Portfolio Development and Assessment

2:2:0

Fall, Spring

For those entering the AAS Degree in Technology. Helps students develop their professional portfolio including experience, certifications, licenses, etc. Involves creating required documentation and presentation by the student and assessment of the portfolio by a committee of appropriate faculty and technology professionals to determine experiential credit granting equivalences in courses TECH 110R. Inculcates the value of continuous learning and the process of Learning how to Learn.

TECH 1010

Understanding Technology

3:3:0

Fall, Spring, Summer

Covers the principal technologies that are important and prevalent today and their associated science principles. Explores how technology applies to, affects, and interacts with various fields, environments and workplaces. Develops an appreciation for how technology evolves and what possible new and exciting technologies are on the horizon

TECH 1050

Manufacturing Processes and Systems

3:2:3

Fall

Covers a wide variety of manufacturing processes, including: casting, welding, sheet metal forming, machining, composites fabrication, injection molding, extrusion, thermoforming, rotational molding, and electronics fabrication. Covers understanding of manufacturing systems and all the components required to work together, including: the production system, ERP software system, quality system, business structure, supply chain, and delivery.

TECH 110R

Technical Experiential Credit

1 to 8:0:3 to 24

* Prerequisite(s): TECH 1000

Allows students to obtain technical experiential credit through an approved portfolio. Portfolio is developed and approved in TECH 1000. May be repeated for a maximum of 15 credits toward graduation.

TECH 200G

Technology and Human Life

3:3:0

Fall, Spring, Summer

Acquaints students with the major technologies affecting our culture and the global community, such as biotechnology, nanotechnology, information technology, and military technology. Places special emphasis on the moral, social, economic, legal, and political consequences of these technologies. Covers summary descriptions of various technologies, some of the major issues associated with them, and the underlying philosophical foundations of our encounters with them. May be delivered online.

TECH 2010

Supervision in Technology

3:3:0

Fall, Summer

Addresses employee motivation and the impact of the workplace environment (both physical and intangible). Presents various techniques of leadership and management (addressing different motivational theories and contemporary research on worker motivation). Teaches how to build and work in effective teams to inspire good performance and use conflict and negotiation effectively. Practices good communication skills both written and oral. Teaches how to understand the organizational structure, how to manage and assess performance, and how to be aware of opportunities and challenges when managing employees in a technological environment, including strategies for training and evaluation. May include hybrid or online delivery.

TECH 2050

Introduction to Quality Management

3:3:0

Spring

* Prerequisite(s) or Corequisite(s): EDGT 1600 or STAT 1040 or STAT 1045

Introduces quality management. Includes ISO 9000, application of Lean Six Sigma, continuous process/product improvement, basic statistical methods, performance measurements, cost of poor quality, employee empowerment, and global quality initiatives. Acquaints students with the requirements for relevant professional certifications for career enhancement.

Course Descriptions

TECH 281R

Internship in Technology

1 to 3:0:5 to 15 On Sufficient Demand

* Prerequisite(s): Department Approval

Obtains work experience for lower-division students in their technical field. Provides supervised, practical, and professional experience. Demonstrates accountability regularly with a School of Technology and Computing coordinator. May be repeated for a maximum of 3 credits toward graduation. May be graded credit/no credit.

TECH 290R

Current Topics in Technology

3:3:0 On Sufficient Demand

Demonstrates current developments in technology fields and how they apply to business and industry processes. Prepares students to use contemporary technologies in their professions. May be repeated for a maximum of nine credits toward graduation. May be delivered hybrid.

TECH 297R

Independent Study

1 to 3:0:3 to 9 On Sufficient Demand

* Prerequisite(s): Department approval

Requires individual initiative and responsibility. For qualified students who wish to undertake an independent project or directed study related to an area of technology or manufacturing. The topic must be approved by the instructor and the Department Chair. May be repeated for a maximum of 4 credits toward graduation.

TECH 3000

Introduction to Technology Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010, Sophomore Standing, and University Advanced Standing

Addresses the special characteristics of managing and leading technology dependent organizations. Covers the leading influential technologies, technology's impact on organizational structure and the policy process, strategic technological planning, futures studies, leadership, global aspects of technology management, performance assessment, technology life cycles and financing, and some of the major ethical implications of managing technology dependent organizations.

TECH 3010

Creativity Innovation and Change Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): ENGL 1010, Sophomore Standing, and University Advanced Standing

Focuses on principles of creativity and innovation as they apply to technological enterprises. Covers theoretical and practical concepts of both creativity and innovation. Studies both concept and practice of structured methods of creative problem solving. Examines "Appreciative Inquiry" as an alternative management of change technique. Examines inventors and the invention process, including the patent process. Uses lecture, discussion, group projects, case studies, class activities, presentations, videos and guest lecturers.

TECH 301R

Technology Lecture Series

1:1:0 Fall, Spring

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Presents lectures from external speakers in various technology related subjects. Requires a written reaction paper for most of the lectures. May be repeated for a maximum of 2 credits toward graduation.

TECH 3400

Project Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing

* Prerequisite(s) or Corequisite(s): Computer Literacy

Teaches the fundamental principles, processes, and techniques of project management. Includes a systems approach to planning, scheduling, and controlling projects. Focuses on effective processes for managing projects across multiple disciplines/industries and varying management structures. Introduces project management tools that can be used to guide and manage individual and multiple projects. May be delivered hybrid and/or online.

TECH 3700

Materials Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): TECH 3000 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Involves a comprehensive approach to purchasing, raw and finished goods inventories, and determining and managing capacity and workers. Includes Just-in-time, Kanban, scheduling and emerging technologies. Assists in preparing students for national certifications.

TECH 3850

Quality Management in Technology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): [(TECH 3000 and (STAT 1040 or STAT 1045) or advisor approval] and University Advanced Standing

Involves a comprehensive approach to Quality Management related to technical professions. Covers Lean and Six Sigma approaches, continuous improvement/Kaizen, Voice of the Customer (VOC), Statistical Process Control (SPC), cost of poor quality, leadership, employee empowerment, teamwork, change management, and quality standards. Assists in preparing students for the relevant professional certifications for career enhancement.

TECH 4000

Reliability Engineering and Safety

3:3:0 Fall, Spring, Summer

* Prerequisite(s): TECH 3000 and (ENGL 2010 or ENGL 2020) and University Advanced Standing

Studies interrelated aspects of reliability, safety, other important risk factors, environmental concerns, and ergonomic considerations in a technological enterprise. Presents a mixture of academic study, investigation of numerous actual cases, surveys of local businesses, and discussion of current events in these areas. Studies requirements of governmental agencies. Studies communication and community interaction techniques to prevent and mitigate human error.

TECH 405G

Global Ethical and Professional Issues in Technology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): PHIL 2050 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): TECH 4420 or CMGT 3040

Examines professional and ethical issues that arise within technological organizations with a global perspective. Studies the impact of conflicting loyalties, as well as the roles of multi-culturalism and globalization. Includes review of current ethical theories and existing professional codes of conduct. Includes lecture, readings, case studies, and other media. May be delivered online.

TECH 4200

Technology Marketing and Customer Relationship Management

3:3:0 Fall, Spring, Summer

* Prerequisite(s): TECH 3000 and University Advanced Standing

Examines customer relationship management (CRM) and its application in marketing, sales, and service. It will include the use of Microsoft Dynamics CRM as well as a number of online resources. Students will learn CRM to align business process with customer-centric strategies, such as identification, acquisition, growth and retention of desired customers. Emphasis is given on conceptual knowledge, real-world projects, and hands-on learning using Microsoft Dynamics CRM software. May be delivered online.

TECH 4400

Advanced Project Management

3:3:0 Fall, Spring

* Prerequisite(s): {[ACC 3000 or (ACC 2010 and ACC 2020) or ACC 2030] and STAT 1040 or STAT 1045 or advisor approval} and University Advanced Standing

* Prerequisite(s) or Corequisite(s): TECH 3400

Presents advanced tools and techniques which build on the concepts presented in introductory project management class. Covers principles for managing multiple projects. Studies best practices for project management. Introduces the activities of Program Management, Project Portfolio Management and Strategic Project Leadership and Management. Analyzes basic cost justification techniques for making economic decisions in technical organizations. May be delivered online.

TECH 4420

Organization Information Technologies

3:3:0 Fall, Spring, Summer

* Prerequisite(s): TECH 3000, Computer Literacy, University Advanced Standing, and (ACC 3000 or ACC 2010)

Introduces how information, and the management of that information, can affect the structure and operations of organizations. Covers Technical and organizational foundations of information systems along with contemporary approaches to building, managing and protecting information systems including hands-on work with a modern Enterprise Resource Planning (ERP) system. Emphasizes how information technology affects decision-making. Uses Excel as a decision support tool. Examines the ethical and legal issues raised by the capabilities of information technology. May be delivered online. Lab access fee of \$35 for computers applies.

TECH 481R**Internship****1 to 3:0:5 to 15 On Sufficient Demand**

* Prerequisite(s): TECH 3400, Technology Management Department Chair Approval, and University Advanced Standing

Provides opportunities to apply classroom theory while students work as employees in a job that relates to their careers. May be repeated for a maximum of 9 credits toward graduation. May be graded credit/no credit.

TECH 489R**Undergraduate Research in Technology Management****1 to 3:0:5 to 15 On Sufficient Demand**

* Prerequisite(s): Department approval and University Advanced Standing

Provides the opportunity to conduct research under the mentorship of a faculty member. Practices the theoretical knowledge gained in prior major courses. Requires the creation of a significant intellectual or creative product that is characteristic of the Technology Management discipline and worthy of communication to a broader audience. May be repeated for a maximum of 3 credits toward graduation.

TECH 490R**Current Topics in Technology Management****3:3:0 On Sufficient Demand**

* Prerequisite(s): (Senior Status or Instructor Approval) and University Advanced Standing

Designed to show developments in business and industry professions in the short- and mid-term future. Acquaints students with the newest technological developments in their fields. Prepares students for the changes that various technologies will bring their professions. May be repeated for a maximum of 9 credits toward graduation.

TECH 4910**Senior Capstone Project****3:3:0 Fall, Spring, Summer**

* Prerequisite(s): TECH 3400, TECH 3850, Senior Status, and University Advanced Standing

For senior Technology Management majors. Provides a leadership transition from academic to applied/real-life work experience. Includes student, company liaison, and coordinator evaluation, on-site work visits, written assignments and oral presentations. Offers experience in establishing and accomplishing team objectives that improve their ability to add real value in their future employment.

TECH 497R**Independent Study****1 to 3:0:3 to 9 On Sufficient Demand**

* Prerequisite(s): Technology Management Department Chair Approval and University Advanced Standing

Offers independent study as directed in reading or individual projects at the discretion and approval of the department chair. May be repeated for a maximum of 4 credits toward graduation.

Theatre (THEA)**THEA 1013****Introduction to Theatre****3:3:0 Fall, Spring, Summer**

An dynamic introductory course which examines theatre analysis, history, dramatic structure, outstanding dramatic literature, and the various roles in theatre production including the playwright, producer, director, the design team, production staff, house staff, run crew, and publicity. Utilizes lecture, film review, play reading, and live theatre attendance.

THEA 1023**Introduction to Film****3:3:0 Fall, Spring, Summer**

Designed to develop the analytical skills necessary for understanding the motion picture - not only as an art form, but as a tool for the statement of ideas. Explores the visual and aural elements employed by movie-makers to influence audiences. Studies context--the historical, social, political, cultural, and artistic situation which produced the film and how it reflects ourselves and our society. Combines lecture, screening, and demonstration with critical discussions of assigned readings and films. Requires a weekly lab.

THEA 1033**Acting I****3:3:0 Fall, Spring, Summer**

For theatre arts majors and anyone interested in developing acting skills. Covers basic acting terminologies and definitions, techniques of movement, voice, and script analysis with a strong emphasis on performance ethics.

THEA 1113**Voice and Diction I****3:3:0 Fall, Spring**

* Prerequisite(s): THEA 1033

Provides students the opportunity to improve their vocal skills. Studies control and enhancement of the vocal mechanism. Stresses respiration, phonation, and articulation. Includes vocal exercises, oral presentations and study of the International Phonetic Alphabet (I.P.A) combined with lectures, films, demonstrations, and critiques.

THEA 1223**Makeup I****3:3:0 Fall, Spring**

Introduction to character makeup application for stage and screen with emphasis on corrective, age, and period with some stylized applications. Studies include the development of physical characterization for scripted characters. Course fee of \$23 for materials applies.

THEA 1513**Stagecraft I****3:3:0 Fall, Spring**

* Corequisite(s): THEA 1514

Surveys all elements of theatre and film production including sets, lighting, sound, properties, and costumes. Offers experience in the construction, painting, dressing, and striking of sets and props; the hanging, focusing and gelling of lighting instruments; the preparation of sound effects; and the operation of sound and lighting control equipment. Utilizes lecture, demonstration, films, and observation of working production facilities and personnel. Course fee of \$30 for equipment applies.

THEA 1514**Stagecraft I Lab****1:0:3 Fall, Spring**

* Prerequisite(s) or Corequisite(s): THEA 1513

Laboratory component to THEA 1513. Offers experience in the construction, painting, dressing, and striking of sets and props; the hanging, focusing and gelling of lighting instruments; the preparation of sound effects; and the operation of sound and lighting control equipment.

THEA 159R**Production Practicum for Stage and Screen****1:1:2 Fall, Spring, Summer**

* Prerequisite(s): None

Provides the opportunity for freshmen students to earn college credit for supervised projects in production for the period up to dress rehearsal and during strike. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 1713**Script and Text Analysis I****3:3:0 Fall, Spring**

Introduces students to the analysis of story-based texts across a range of media. Focuses on the application of narrative and semiotic theory to dramatic literature from various periods in theatre history. Involves lecture, discussion, script and text analysis, film viewing, and live production attendance.

THEA 2033**Acting II****3:3:0 Fall, Spring**

* Prerequisite(s): THEA 1033, THEA 1113

Designed to build upon the techniques learned in THEA 1033. Emphasizes character development and application in creating a role through intense scene study of scripts in both stage and screen.

THEA 2131**Movement for the Actor I****3:3:0 Spring**

* Prerequisite(s): THEA 1033

Designed to help actors for both stage and screen develop the physical awareness and self discipline critical to effective performance of period style, staged combat, and the musical. Emphasizes balance, strength, postural correction, energy drives, motivation, and basic movement vocabulary.

THEA 2156**Group Voice for Theatre****3:3:0 Fall, Spring**

* Prerequisite(s): For theatre majors only

Provides group instruction for actors to develop technical skill and understanding of the singing voice. Requires a minimum of 3 hours of practice each week.

Course Descriptions

THEA 2200 **FF**
Theatre and Drama in the Elementary School
3:3:0 **Fall, Spring**

Teaches students how to build bridges between play and learning by exploring how theatre and theatre games can be used to educate elementary students in the joys of theatre and the ways drama can be used to learn deeper lessons in other disciplines. Incorporates theory, materials, and practice—including story dramatization, play writing, rehearsal techniques, storytelling, puppets, pantomime, role-play and theatre games. Fulfills requirements of the Utah State Core Curriculum in Theatre for both Secondary and Elementary levels.

THEA 2203
Costume Construction I
3:3:0 **Fall**
 * Prerequisite(s): THEA 1513
 * Corequisite(s): THEA 2204

A beginning overview of the vocabulary and basic sewing methods of theatrical costuming. Familiarizes students with sewing machine and serger operation, basic sewing techniques, fabrics, simple patterning, and skills of costume construction. Course fee of \$12 for equipment applies.

THEA 2204
Costume Construction I Lab
1:0:3 **Fall**
 * Prerequisite(s): THEA 1513
 * Prerequisite(s) or Corequisite(s): THEA 2203

Laboratory component to THEA 2203. Provides general theatre shop experience designed to offer opportunity for the hands-on application of basic sewing methods of theatrical costuming. Includes training in sewing machine and serger operation, basic sewing techniques, fabrics, simple patterning, and skills of costume construction.

THEA 2211
Theatre for Children and Youth
3:2:3 **Spring**

Introduces the philosophy and practices of theatre for children and youth, including its range of uses in the classroom, on the stage, in the community, corporate world and beyond. Focuses on storytelling, puppetry, and dramatic texts for children and youth. Requires play attendance.

THEA 222R
Theater for Young Audiences Tour
3:2:3 **Fall, Spring**
 * Prerequisite(s): THEA 1013 or Instructor Approval

Provides students with opportunities to perform in touring theatre productions for elementary and secondary audiences in school settings. Includes training in professional and amateur practices in performing, directing, designing, constructing, and managing touring shows for children and youth. May be repeated for a maximum of 6 credits toward graduation.

THEA 2231
Creative Drama I
3:3:0 **Fall**

Provides training for children and youth in the creation of improvised drama in classroom, workshop, and community settings. Prepares students to lead drama activities in elementary and secondary schools and to use drama as a tool to teach other state core curriculum.

THEA 2311 (Cross-listed with: CINE 2311) **FF**
Film History I
3:3:0 **Spring**
 * Prerequisite(s): THEA 1023 or ENGL 2150

Explores the development of the feature film, both in America and abroad from 1895 to 1945. Covers the evolution of motion pictures from conception as an entertainment novelty (c. 1895) to the mass-audience, commercial art form of the 1940's. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films.

THEA 2312 (Cross-listed with: CINE 2312)
Film History II
3:3:0 **Fall**
 * Prerequisite(s): THEA 1023 or ENGL 2150

Explores the development of the feature film, both in America and abroad from 1940 to the Present. Emphasizes the continuing evolution of motion pictures from the height of the Studio System 1930s through to its status as one "form" of digital entertainment in 2010. Examines film as a serious historical study of a form of mass communication, which has had ethical, social, and political consequences on society. Includes lecture, screenings, and demonstrations with critical discussions of assigned readings and films. (Note: Some films screened may be considered controversial and carry an "R" rating.)

THEA 234R (Cross-listed with: CINE 234R)
Special Topics in Cinema Studies
3:2:2 **On Sufficient Demand**
 * Prerequisite(s): THEA 1023

Focuses upon a particular genre, director, or film movement for the benefit of theater students seeking a film emphasis and MCT and English students seeking added depth in their fields of study. Topic varies by semester. May be repeated for 3 credits toward graduation, more for interest.

THEA 2513
Introduction to Design for Stage and Screen
3:3:0 **Fall, Spring**
 * Prerequisite(s): THEA 1513
 * Corequisite(s): THEA 2514

Studies the design process associated with costumes, scenery, and lighting. Uses research, conceptual renderings, models, and drafting. Introduces perspective drawing, figure drawing, three dimensional model building, and standard drafting practices. Course fee of \$10 applies.

THEA 2514
Introduction to Design for Stage and Screen Lab
1:0:3 **Fall, Spring**
 * Prerequisite(s): THEA 1513
 * Prerequisite(s) or Corequisite(s): THEA 2513

Laboratory course to accompany THEA 2513. Teaches skills in the application of elements and principles of design in the creation of scenery, costumes, and lighting in the theatre.

THEA 2515
Rendering for Theatre
3:3:0 **Fall**
 * Prerequisite(s): ART 1020, ART 1650

Trains theatrical design students in the advanced drawing and painting skills necessary to create detailed renderings of costumes and scenery that effectively communicate visual ideas for stage design concepts.

THEA 2517
Visual Concepts in Theatre
3:3:0 **Fall**
 * Prerequisite(s): THEA 2513

Introduces students to the translation of scripts into visual imagery for the stage. Focuses on the processes of conception, development, and implementation of design components to the point of actual presentation.

THEA 2541
Costume History
3:3:0 **Fall**

Studies costume history from ancient to modern times. Focuses on the political, social, economic and aesthetic concerns of each period. Includes study of the impact of other cultures on Western costume design.

THEA 259R
Production Practicum for Stage and Screen
1:0:3 **Fall, Spring, Summer**
 * Prerequisite(s): THEA 1513

Provides the opportunity for sophomore students to earn college credit for supervised projects in production for the period up to dress rehearsal and during strike. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 2711
BFA Cohort Seminar
1:1:0 **On Sufficient Demand**
 * Prerequisite(s): THEA 1513, THEA 1713

Prepares BFA students for integration into the program through theatrical projects that encourage ensemble collaboration and cooperation with cohorts. Teaches critical unifying skills for future professional endeavors.

THEA 2741
Scriptwriting I
3:3:0 **Fall, Spring**

Introduces dramatic writing in plays and screenwriting. Covers script formatting, dramatic structure, theatre and film conventions, use of dialogue, character, and plot development. Requires writing monologues, scene treatments, a short one-act play, and a short screenplay.

THEA 281R
Theatre Internship
1 to 6:0:5 to 30 **Fall, Spring, Summer**
 * Prerequisite(s): Departmental Approval

Provides a transition from school to professional life where learned theory is applied to actual practice through meaningful on-the-job experience. May be repeated for a maximum of 4 credits toward graduation. May be graded credit/no credit.

THEA 284R
Singing Technique for Actors I
1:1:0 **Fall, Spring**
 * Prerequisite(s): Audition required

Offers private vocal instruction for theatre majors to develop skills and techniques for performance in musical theatre. Requires substantial individual practice each week and bi-monthly master class participation. May be repeated for a maximum of 3 credits toward graduation. Course Lab fee of \$331 for private voice lessons.

THEA 290R
Independent Study
1 to 5:1 to 5:0 **On Sufficient Demand**

For students with individual projects. Credits given for acceptable projects in playwriting, direction, acting, design or other supervised performance, labor, or research in theatre or film. Proposals must be submitted and approved by the department or instructor prior to enrollment. May be repeated for a maximum of 3 credits toward graduation.

THEA 3033
Acting III
3:3:0 **Spring**
 * Prerequisite(s): THEA 1033, THEA 1113, THEA 2033 and University Advanced Standing

Trains advanced students in the use of contemporary methods, theories, and practices in creation of roles. Focuses on material written and produced in late 20th and early 21st century theatre.

THEA 3110
Non Fiction Cinema History
3:2:3 **On Sufficient Demand**
 * Prerequisite(s): THEA 1023 and University Advanced Standing

Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANOOK OF THE NORTH to the current trend of reality television and the popular documentaries of Michael Moore.

THEA 3113
Acting for Film
3:2:3 **Spring**
 * Prerequisite(s): (THEA 2033 or DGM 1110) and University Advanced Standing

Introduces the specialized techniques of performance, audition, and agent/actor relationships as they apply to the film and television industries.

THEA 3115
Improvisation
3:3:0 **Spring**
 * Prerequisite(s): THEA 1113, THEA 2033, THEA 2131 and University Advanced Standing

Introduces acting students to the use of improvisational techniques. Includes advanced training in the application of objectives, tactics, relationships, and movement in the creation of improvised scenes.

THEA 3116
BA Auditioning
3:3:0
 * Prerequisite(s): THEA 1033 and University Advanced Standing

Prepares BA students with the specific skills to successfully audition for stage roles at the amateur level. Includes instruction on playing objectives, defining relationships, making emotional connections, and physicalizing action. Focuses on mental and psychological preparation for the audition situation.

THEA 3117
Auditioning I
3:3:0 **Spring**
 * Prerequisite(s): THEA 1033, THEA 2033, THEA 3115 and University Advanced Standing

Prepares students with the specific skills to successfully audition for stage and screen roles. Includes work on objectives, relationships, emotional connection, and honest physicality.

THEA 3122
Voice and Diction II
3:3:0 **Fall**
 * Prerequisite(s): THEA 1113, THEA 2033, THEA 2131, and University Advanced Standing

Offers advanced study and application of techniques and practices for increasing vocal strength, range, and diction. Integrates organic movement, vocal exercises, and acting technique. Emphasizes work on operative word stress and articulation.

THEA 3123
Stage Dialects
3:3:0 **Fall**
 * Prerequisite(s): THEA 1113 and University Advanced Standing

Teaches the creation of believable characters from various linguistic backgrounds. Emphasizes liit, stress, resonance, and pronunciation of dialects as a stage tool. Utilizes the IPA - International Phonetic Alphabet. Includes multiple dialects from three broad geographical categories: American, British Isles, and Western Continental Europe.

THEA 3131
Movement for the Actor II
3:3:0 **Fall**
 * Prerequisite(s): THEA 1033, THEA 2131 and University Advanced Standing

Trains advanced movement students in somatic techniques such as Yoga, Tai Chi, Feldenkrais, and Laban.

THEA 3133
Stage Combat
3:3:0 **Fall**
 * Prerequisite(s): THEA 2131 and University Advanced Standing

Teaches basic principles of stage combat/choreography and safety practices.

THEA 314G (Cross-listed with: **COMM 314G, ENGL 314G**)
Global Cinema History
3:2:3 **On Sufficient Demand**
 * Prerequisite(s): (ENGL 2150 or THEA 1023) and University Advanced Standing

Studies the evolution of global film styles, movements, stars, and genres with a focus on international cinema chronologies outside the United States. Some films screened may be considered controversial and carry an "R" rating.

THEA 3151
Acting for Musical Theatre I
3:3:0 **Spring**
 * Prerequisite(s): THEA 2033 and University Advanced Standing

Introduces the acting student to the techniques of acting, singing, and dancing for the musical, as well as looking at the history and trends of the musical. Also incorporates the art of transitioning between dialogue and song.

THEA 3152
Acting for Musical Theatre II
3:3:0 **Fall**
 * Prerequisite(s): THEA 3151 and University Advanced Standing

Further develops and refines the performer's abilities as a singer, dancer, and actor. Links trends in musical theatre with past and present artistic choices. Explores design aspects of musical theatre and thematic integration of acting, singing, and dancing. Includes lecture, discussion, film, rehearsal, and performance.

THEA 3154
Dance for Musical Theatre I
3:2:3 **Fall**
 * Prerequisite(s): THEA 2033 and University Advanced Standing

Focuses on the academic and practical study of the history and development of Musical Theatre Dance as an art form from the late 19th century to present. Melds tap, ballet, jazz, ballroom, and ethnic dance into practical character and story based movement while exploring historic context, landmark choreographers and productions.

THEA 3155
Dance for Musical Theatre II
3:2:3 **On Sufficient Demand**
 * Prerequisite(s): THEA 3154, BFA Theatre Arts: Musical Theatre emphasis majors only, University Advanced Standing

Introduces the study of musical theatre choreography. Emphasizes practical application involving a blending of various styles of dance into the creation of practical character and story-based movement.

Course Descriptions

THEA 315R

Musical Theatre Practicum

2:0:6 Fall, Spring

* Prerequisite(s): Instructor approval by audition and University Advanced Standing

Prepares the student to perform in and produce musical theatre through development of acting, singing, and dance techniques in performance showcase forum. Offers performance opportunities such as musical sketch comedy reviews, children's theatre touring productions, and small scale musicals. May be repeated for a maximum of 8 credits toward graduation. Course fee of \$30 for materials, specialized clothing applies.

THEA 319R

Performance Practicum for Stage and Screen

1:0:3 Fall, Spring

* Prerequisite(s): Permission of instructor and University Advanced Standing

Provides opportunity for earning college credit for supervised performance and production assignments in UVU theatre productions from dress rehearsal through closing performance (excluding strike). Allows students to apply learned skills to productions that are currently in performance. Criteria for project completion will be negotiated with the instructor or Department Chair on an individual basis. May be repeated for a maximum of 3 credits toward graduation.

THEA 3211

Applied Theatre

3:3:0 Fall Odd Years

* Prerequisite(s): THEA 1013 and University Advanced Standing

Provides training and experience in Applied Theatre with adult, youth, and child participants in educational and community settings. Includes using Theatre of the Oppressed techniques (as formulated by Augusto Boal), devising original theatre pieces, and creating theatre-in-education programs that address social and community needs and issues.

THEA 3223

Makeup II

3:2:2 Spring

* Prerequisite(s): THEA 1223 and Instructor Approval and University Advanced Standing

Teaches advanced techniques in makeup design and application, character analysis, and three-dimensional masks. Includes hair applications, prosthetic appliances, airbrush techniques, and variety characterizations. Course fee of \$120 for materials applies.

THEA 3241

Storytelling

3:3:0 Spring

* Prerequisite(s): (THEA 1013 or Instructor Approval) and University Advanced Standing

Introduces techniques associated with effective storytelling practice. Focuses on the use of storytelling as a means of interpreting, generating and preserving stories as an entertaining and empowering tool. Includes performance.

THEA 3251

Puppetry and Mask

3:3:0 Spring

* Prerequisite(s): (THEA 1013 or Instructor Approval) and University Advanced Standing

Introduces techniques for constructing and performing with various puppets and masks. Emphasizes performance for child, adolescent, and adult audiences.

THEA 3511

Stagecraft II

3:3:0 Spring

* Prerequisite(s): THEA 1513

Develops intermediate skills in the various stage crafts including carpentry, property construction, lighting and sound for theatre and film. Includes further education in drafting; set and lighting principles; professional, management and safety practices. Students fulfill assigned responsibilities for UVU theatrical productions. Course Lab fee of \$40 for equipment applies.

THEA 3514

Period Styles for Theatre Design

3:3:0 Spring

* Prerequisite(s): THEA 2513

Introduction to historical styles of architecture, painting, and dress as they influence theatrical design.

THEA 3516

Art Direction for Film

3:3:0 On Sufficient Demand

* Prerequisite(s): THEA 3514 and University Advanced Standing

Focuses on the basics of production design and art direction, the importance of costumes, props, locations selection, special effects, and set decoration in the visual presentation of a cinematic story.

THEA 3521

Sound Design I

3:3:0 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

Introduces students to the physics of sound. Focuses on the production of audio content, and the design and engineering of playback systems. Facilitates collaboration with other members of a theatrical design team. Requires 25 hours of technical sound support for UVU theatrical productions.

THEA 3542

Costume Construction II

3:3:0 Spring Even Years

* Prerequisite(s): THEA 2203 and University Advanced Standing

Provides more experience with sewing machine operations and advanced sewing techniques. Includes textile selection and construction skills. Focuses on specialized pattern drafting and draping. Course fee of \$25 for materials, equipment applies.

THEA 3561

Stage Management I

3:3:0 Fall, Spring

* Prerequisite(s): THEA 1513 and University Advanced Standing

Introduces students to the basic processes of creating and managing a theatre production organization. Includes introductory structural organization, collaboration, strategic planning, accounting, and marketing concepts, procedures, and simulation exercises. Prepares students for upper division courses in theatre management.

THEA 3565

Technical Direction for the Stage

3:3:0 Fall

* Prerequisite(s): THEA 3574, and University Advanced Standing

Explains the role of the Technical Director in the realization of a theatre production from page to stage. Offers training and hands-on experience in the collaborative production process as seen through the work of the Technical Director. Includes training in industry-standard software and tools.

THEA 3573

Scenic Painting

3:3:0 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

Introduces basic approaches to painting theatrical scenery. Covers traditional scene painting techniques and the tools and paints which support those techniques. Course Lab fee of \$42 applies.

THEA 3574

Drafting for Theatre Design

3:3:0 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

Introduces and trains technical theatre students in the processes of drafting for theatrical design. Focuses on attaining a basic proficiency in using the most recent computer-aided drafting software.

THEA 359R

Production Practicum for Stage and Screen

1:0:3 Fall, Spring, Summer

* Prerequisite(s): THEA 259R and University Advanced Standing

Provides opportunity to earn college credit for managing projects in production for the period up to dress rehearsal and during strike. This includes projects in lighting, sound, costumes, props, scenery, design, stage management, running crews, house management or publicity. Involves the development of a contract between the student and the assigned instructor. May be repeated for a maximum of 2 credits toward graduation.

THEA 3611

Directing Actors for the Stage and Screen
3:3:0 **Fall**
 * Prerequisite(s): (THEA 1033 and THEA 1713) or DGM 2110, and University Advanced Standing

Introduces basic directing techniques utilized in casting and rehearsing actors for stage and screen performance. Places emphasis on achieving honest and believable performances in the intimate style of camera acting, as well as the highly physical acting style of the stage. Includes studies in script structure, visualization, movement, pace and rhythm, gesture, casting techniques, and rehearsal techniques.

THEA 3612

Directing Actors for the Stage
3:3:0 **Spring**
 * Prerequisite(s): THEA 3611 or DGM 2110 and University Advanced Standing

Builds upon concepts covered in Directing I. Includes class workshops and demonstrations followed by class/instructor critique. Requires completion and presentation of a director's book. Culminates in public presentation of a one-act play.

THEA 3614

Directing Actors for the Screen
3:3:0 **Spring**
 * Prerequisite(s): (THEA 3611 or Instructor Approval) and University Advanced Standing

Builds upon concepts covered in Directing Actors. Includes class workshops and demonstrations followed by class/instructor critique. Requires completion and presentation of a director's book. Culminates in public presentation of a short film. For Digital Media Majors and Theatre Majors (only with instructor approval).

THEA 3625

Fundraising for the Arts
3:3:0 **Spring**
 * Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Introduces the development process, cultivating donors, and raising money through donations, sponsorships, and grants to support nonprofit arts organizations.

THEA 3711

Script and Text Analysis II
3:3:0 **Fall**
 * Prerequisite(s): THEA 1713 and University Advanced Standing

Focuses on the practical application of dramatic, narrative, semiotic, and developmental theory to the practice of theatrical artists, educators, and dramaturgs.

THEA 3721

Theatre History and Literature I
3:3:0 **Fall**
 * Prerequisite(s): THEA 1013, THEA 1713, (ENGL 2010 or ENGL 2020), and University Advanced Standing

Examines the history of the theatre from its earliest origins through the Renaissance. Emphasizes theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing analytically about the theatre.

THEA 3722

Theatre History and Literature II
3:3:0 **Spring**
 * Prerequisite(s): THEA 3721 and University Advanced Standing

Examines the history of the theatre and its associated literature and artists from the Restoration to the present time. Focuses on historical theatre practice in its social, political and economic contexts. Introduces the theory and skills necessary for writing performance reviews and extended research papers in theatre.

THEA 3725

Musical Theatre History
3:3:0 **Spring**
 * Prerequisite(s): THEA 1713 and University Advanced Standing

Explores the evolution of musical theatre from the 1700s through present day, focusing on how politics, cultural trends, and technology have changed the art form.

THEA 3731

Dramaturgy
3:3:0 **Fall**
 * Prerequisite(s): THEA 1713

Introduces students to the practice of production research and play outreach. Provides grounding in theory and analysis to develop skills in the discipline. Aimed at students in multiple interest areas such as performance, design and administration.

THEA 3741

Script Writing II
3:3:0 **Spring**
 * Prerequisite(s): THEA 2741

Builds and enlarges on the specific writing craft elements of plot, character, and theme introduced in prior writing classes. Examines plot structures in one-act plays and short films including documentaries. Involves students in identifying and strengthening weaknesses or challenges in their own as well as fellow students' original scripts. Includes active class discussions, readings, written and oral presentations, research and final projects of a one-act play or short film from 30 to 60 minutes in length.

THEA 374R

New Script Workshop
3:2:3 **Fall**
 * Prerequisite(s): THEA 1033 or THEA 2741 or THEA 3611

Acts as a reading, performance, discussion and improvisation lab for scriptwriter's creative works. Involves students in the process of polishing, refining, and brainstorming dramatic works. Supports original student scripts with the ultimate goal of production. Integrates the work of writers, directors and actors into a collaborative effort. Includes active class discussions, readings, improvisations, written and oral presentations and critiques, research and completion of a project. May be repeated for a maximum of 6 credits toward graduation. Course fee of \$15 for materials applies.

THEA 4115

Acting Styles
3:3:0 **Spring**
 * Prerequisite(s): THEA 2033, THEA 3721, and University Advanced Standing

Includes advanced preparation for performance of classical texts. Emphasizes voice, speech, movement, and character development. Covers Greek and Roman acting styles, Commedia dell Arte and 17th Century French Neoclassic styles, Shakespearean Tragedy and Comedy, Comedy of Manners, and 19th Century Romanticism and Melodrama. Includes a brief introduction to Modern and Post-modern acting styles.

THEA 4117

Auditioning II
3:3:0 **Fall**
 * Prerequisite(s): THEA 3117 and University Advanced Standing

Teaches advanced skills and methods involved in the audition process for stage and screen roles. Focuses on developing resumes, interview skills, and preparing a wide range of audition pieces.

THEA 4119

Senior Showcase and Career Management
3:3:0 **Spring**
 * Prerequisite(s): Senior Standing; THEA 4117, BFA Theatre Arts: Acting emphasis or Musical Theatre emphasis; University Advanced Standing

Performance workshop course that allows BFA Theatre Arts: Acting and Musical Theater emphasis seniors to collaborate with a director to create a showcase of each student actor's performance for promotional purposes. Teaches key skills in career and personal financial management related to the acting profession.

THEA 4122

Vocal Approach to the Classics
3:3:0 **Spring**
 * Prerequisite(s): (THEA 1113 or THEA 3122) and University Advanced Standing

Increases the actor's command of tone, rhythm, pacing, and diction to fulfill the demands of classical acting. Involves rigorous textual analysis of the verse and prose of classical texts followed by interpretive exercises in both vocalization and physicality.

THEA 414R

Special Topics in Cinema History
3:2:3 **On Sufficient Demand**
 * Prerequisite(s): THEA 1023 and University Advanced Standing

Focuses study on a specific U.S. or International period or movement. Representative topics may include German Expressionism, Italian Neorealism, New Hollywood Cinema, and etc. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating.

Course Descriptions

THEA 416R (Cross-listed with: CINE 416R, ENGL 416R)

Special Topics in Film Studies

3:3:0 On Sufficient Demand

* Prerequisite(s): (ENGL 2150 or CINE 2150 or THEA 1023) and University Advanced Standing

Covers cinema directors, genre, theory, and social change on a rotating basis. Explains course focus, defines terminology involved, then studies evolution and/or specific texts or contexts, and considers theoretical discourse. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating. Course fee of \$40 for support applies.

THEA 4200

Theatre and Drama in the Secondary School

3:3:0 Fall

* Prerequisite(s): EDSC 3000, EDSC 4550, matriculation in to a Secondary Education Program, and University Advanced Standing

For theatre majors interested in teaching theatre arts at the secondary and college levels. Introduces methodologies, strategies, and philosophies of theatre pedagogy based upon current research and practices. Emphasizes lesson plan writing using the Utah State Secondary Theatre Core Curriculum and the National Committee for Standards in the Arts. Integrates theory and practice through lecture, discussion, writing, activities, and classroom teaching experiences in the college and public school settings.

THEA 451R

Special Topics in Theatre Design and Technology

3:3:0 On Sufficient Demand

* Prerequisite(s): Instructor Approval and University Advanced Standing

Offers in-depth study of specialized topics in theatre technology and design. Includes possible topics such as scenic and integrated projections, mixed reality and video design, audience participatory technology, 3-D Modeling and prop design, special effects technology, and scenography and European technology. May be repeated for a maximum of 9 credits toward graduation.

THEA 4531

Lighting Design I

3:3:0 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

* Corequisite(s): THEA 4534

Focuses on the designing and practical application of theatrical lighting and sound. Includes laboratory work on UVU theatre productions. Course Tool fee of \$20 for materials applies.

THEA 4532

Lighting Design II

3:3:0 Fall

* Prerequisite(s): THEA 4531 and University Advanced Standing

Explores and applies elements of design as they relate to lighting for theatre, dance and film from design process conception to final paperwork. Requires work on UVU productions as well as individual student projects.

THEA 4534

Lighting Design I Lab

1:0:3 Spring

* Prerequisite(s): THEA 3514 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): THEA 4531

Laboratory component to THEA 4531. Allows students to implement theatrical lighting and sound design plans. Includes laboratory work on UVU theatre productions.

THEA 4535

Multimedia Design for Stage

3:3:0 Fall

* Prerequisite(s): THEA 2513 and University Advanced Standing

Introduces the language, history, and technology of digital media as it applies to the theatre. Focuses on developing skills to conceive, create, and implement digital media designs for the stage.

THEA 4541

Costume Design I

3:3:0 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

* Corequisite(s): THEA 4544

Introduces theories and fundamentals of costume design with practical application through research and rendering. Provides an overview of costume history and period research. Emphasizes conceptual ideas based in script and director's concept. Course Lab fee of \$19 applies.

THEA 4542

Costume Design II

3:3:0 Fall

* Prerequisite(s): THEA 4541 and University Advanced Standing

Develops further the theories of costume design and provides more experience with practical application through research and rendering. Emphasizes advanced conceptual ideas based in script and director's concept. Encourages organization of a professional portfolio.

THEA 4544

Costume Design I Lab

1:0:3 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): THEA 4541

Laboratory course to accompany THEA 4541. Provides opportunities for practical application of design fundamentals in creation of costumes for various genres and historical periods.

THEA 4546

Digital Costume Design

3:3:0 Fall

* Prerequisite(s): THEA 4541 and University Advanced Standing

Strengthens abilities to work with advanced design ideas based in script and director's concept. Develops digital rendering skills via training in Photoshop and Illustrator.

THEA 454R

Special Topics in Costume Construction

3:3:0 On Sufficient Demand

* Prerequisite(s): THEA 2203 and University Advanced Standing

Introduces students to the most advanced methods of tailored costume construction. Focuses on practical application of these techniques in the creation of fine couture. May be repeated for a maximum of 9 credits toward graduation.

THEA 4561

Stage Management II

3:3:0 Fall

* Prerequisite(s): THEA 3561 and University Advanced Standing

Introduces theatre management students to the advanced processes of creating and managing a professional theatre production organization. Emphasizes practical application of skills in professional situations (including work on UVU Theatre Arts main stage productions). Includes collaboration with directors, designers, and production crews to build both a personal methodology and the discipline of practice.

THEA 4571

Scenic Design I

3:3:0 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

* Corequisite(s): THEA 4574

Advanced application of the principles of scenic design for sets and properties. Includes completion of at least one project design including elevation drawing and drafting, rendering and model building. Emphasizes conceptual ideas based on script and director's concept. Student designers for UVU productions may be selected from this class.

THEA 4572

Scenic Design II

3:3:0 Fall

* Prerequisite(s): THEA 4571 and University Advanced Standing

Focuses on integration of elements and phases of advanced set construction, property construction and paint finishes for theatrical sets. Includes shop experience and work on UVU productions. Course fee of \$30 for equipment applies.

THEA 4574

Scenic Design I Lab

1:0:3 Spring

* Prerequisite(s): THEA 2513 and University Advanced Standing

* Prerequisite(s) or Corequisite(s): THEA 4571

Laboratory component to THEA 4571 in which students may acquire skills in creation and presentation of scale models used in the development of scenic design for theatrical productions. Includes layout, model making techniques, model finishes, and presentation.

THEA 457R

Practical Design

1 to 3:0:3 to 9 **Fall, Spring**

* Prerequisite(s): Instructor Approval and University Advanced Standing

Involves work on approved projects requiring sophisticated skills in scenic, lighting, costume, or makeup design. May include designs for UVU productions or for community and regional performing groups. Requires approval by appropriate theatre faculty. May be repeated for a maximum of 3 credits toward graduation.

THEA 458R

Special Topics in Theatre

1 to 3:1 to 3:0 **On Sufficient Demand**

* Prerequisite(s): THEA 1013 and Instructor Approval, or THEA 1713

Provides in-depth study of performance or academic topics such as theatrical artists, movements, theories, genres, and social changes. Involves delineation of course focus, defines terminologies involved, then studies evolution and/or specific texts or contexts and considers theoretical discourse. May be repeated for a maximum of 12 credits toward graduation.

THEA 4621

Theatre Administration

3:3:0 **Spring**

* Prerequisite(s): ACC 3000, MKTG 3600, and University Advanced Standing

Introduces advanced concepts in theatre management. Includes an overview of the theatre industry and discussions of theatre organization structures, relevant personnel, and governance for commercial New York theatre, stock and resident theatre, and college theatre and community theatre. Teaches how to locate and secure rights to production and how to work with theatre unions. Includes concepts in audience development techniques. Also includes career discussion of career opportunities in theatre management/ entrepreneurship. Utilizes lecture, discussion, and real-world simulation experiences.

THEA 4741

Scriptwriting III

3:2:3 **Spring**

* Prerequisite(s): THEA 2741

Extends student dramatic writing skills by creating, rewriting, and polishing a full-length film or play. Focuses on choice of material for specific audiences as well as the specific issues of adaptation of material from an already published source. Emphasizes the processes of selection, securing legal rights, adaptation management imperative to the success of a venture. Includes active class discussions, readings, written and oral presentations, research and final readings of students completed projects.

THEA 475R

Special Projects in Dramatic Writing

2 to 9:1:4 to 12 **On Sufficient Demand**

* Prerequisite(s): THEA 4741 and University Advanced Standing

Offers upper-division directed study with professional/academic supervision to motivated students for writing projects such as commissioned or speculative scripted and/or dramatic works, i.e., musicals, one-man shows, guerilla theatre, mimes, short or full-length films, documentaries, television shows, sit-coms, movies-of-the-week and other forms not covered by current classes. Allows for a semesters of writing/re-writing and/or critique/development and possible workshop presentation. May be repeated for a maximum of 9 credits toward graduation.

THEA 481R

Theatre Internship

1 to 8:0:5 to 40 **Fall, Spring**

* Prerequisite(s): Departmental Approval and University Advanced Standing

Provides a transition from school to professional life where learned theory is applied to actual practice through meaningful on-the-job experience. Repeatable for a maximum of 4 credits toward graduation. May be graded credit/no credit.

THEA 484R

Singing Techniques for Actors II

1:1:0 **Fall, Spring**

* Prerequisite(s): THEA 284R, Instructor Approval, and University Advanced Standing

Offers private vocal instruction for upper division theatre majors to continue develop skills and techniques for performance in musical theatre. Requires bimonthly master class participation and substantial individual practice. May be repeated for a maximum of 4 credits toward graduation. Course Lab fee of \$331 for private voice lessons applies.

THEA 490R

Independent Study

1 to 3:0:5 to 15 **On Sufficient Demand**

* Prerequisite(s): University Advanced Standing

Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. May be repeated for a maximum of 9 credits toward graduation.

THEA 497R

Professional Topics

1:1:0 **On Sufficient Demand**

* Prerequisite(s): Junior Status Theatre Major, Department Approval, and University Advanced Standing

For those intending to enter professional theatre. Includes, but not limited to, the following topics: literature, research, analysis, design, management or performance aspects of theatre and the performing arts. May be repeated for a maximum of 3 credits toward graduation.

THEA 4981

Portfolio

1:1:0 **Fall**

* Prerequisite(s): University Advanced Standing

Features development of student portfolio for the areas of performance, design, management, directing, script writing, and performance. Includes interview skills and website development. Emphasizes placement in the theatrical job market or graduate school placement.

THEA 4993

Senior Project

3:3:0 **Fall, Spring**

* Prerequisite(s): THEA 3722, Senior Status, and University Advanced Standing

Provides credit for independent projects and research of advanced nature in the area of Theatre Arts under faculty supervision. Requires an area of study to be designated.

University Studies (UVST)

UVST 1100

Prior Learning Assessment Theory and Practice

3:3:0 **On Sufficient Demand**

* Prerequisite(s): Departmental Approval

Helps students identify areas of learning they may want to have evaluated for college-level equivalency. Also guides students through the preparation and compilation of all components required for the evaluation of a portfolio of prior learning through LearningCounts.org. Delivered entirely online. Graded Credit/No Credit.

UVST 289R

Undergraduate Research

1:1:0 **Spring**

* Prerequisite(s): Department Approval

Utilizes Phi Theta Kappa's theme from their "Honors in Action" program as a vehicle to introduce undergraduates to research. Requires students to write a literature review and to present their findings. Requires students to be a member of Phi Theta Kappa. May be repeated for a maximum of 4 credits toward graduation.

UVST 290R

Community Engagement and Applied Service Learning

1:1:0 **Fall**

* Prerequisite(s): UVST 289R or Department Approval

Utilizes Phi Theta Kappa's theme from their "Honors in Action" program as a vehicle to introduce undergraduates to service learning. Requires students to plan and implement a service project. May be repeated for a maximum of 4 credits toward graduation.

UVST 3110

Theory and Practice of Tutoring Writing

3:3:0 **Spring**

* Prerequisite(s): (ENGL 2010 or ENGL 2020) and University Advanced Standing

Teaches investigative theories, methods, practices and processes of tutoring writing. Has students practice tutoring as a process, actively participating in tutorial sessions and developing tutees ability to do the same. Teaches students to read scholarship from the field of writing center studies that will give them an awareness of the concepts of professional and intellectual tutoring. Requires students to compose several responses to writing center theory, conduct numerous observations of tutorials, participate in tutorials, and ultimately compose an individual philosophy of tutoring.

Course Descriptions

UVST 481R

Internship

1 to 8:0.5 to 40 Fall, Spring, Summer

* Prerequisite(s): University Advanced Standing and Departmental Approval

Increases students' knowledge and skills in personal or career-related areas while synthesizing previous and new learning experiences. Final project involves reflection and demonstration of learning outcome achievement. For BA/BS University Studies majors, requires a project planned with and evaluated by a faculty mentor from an academic discipline closely related to the emphasis for the degree. Repeatable for a maximum of 16 credits toward graduation. May be graded credit/no credit.

UVST 4930

Capstone

2:2:0 Fall, Spring

For UVST BA/BS students in their last semester. Involves reflection on learning, demonstration of the achievement of stated learning outcomes, and advanced development of writing and communication skills. Includes a research/writing project or the creation of a professional portfolio to display knowledge and abilities. Culminates with an oral presentation.

Zoology (ZOOL)

ZOOL 1090

Introduction to Human Anatomy and Physiology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): BIOL 1010 or BIOL 1610

Presents a basic introduction to the sciences of anatomy and physiology. Covers the basic structure and function of the human body at the cellular, tissue, organ, and system levels. Provides a foundation of particular value for pre-nursing students who wish to have a preview of their required life science courses.

ZOOL 2320

Human Anatomy

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (BIOL 1010 or BIOL 1610) and ENGL 1010 with a minimum of C- or written permission of the Anatomy program coordinator

* Corequisite(s): ZOOL 2325

Studies, in-depth, the anatomy of the human body. Covers the structure and some functions at the cellular, tissue, organ, and system levels. Emphasizes the names, locations, and functions of body components. Involves problem solving and analytical thinking. Includes weekly laboratory study of human cadavers, models, and specimens.

ZOOL 2325

Human Anatomy Laboratory

1:0:3 Fall, Spring, Summer

* Corequisite(s): ZOOL 2320

Studies, in-depth, the anatomy of the human body. Covers the structure and some functions at the cellular, tissue, organ, and system levels. Emphasizes the names, locations, and functions of body components. Involves problem solving and analytical thinking. Includes weekly laboratory study of human cadavers, models, and specimens. Course Lab fee of \$30 applies.

ZOOL 232H

Human Anatomy

3:3:0 Fall, Spring

* Prerequisite(s): BIOL 1010 or BIOL 1610; ENGL 1010 or written permission of the Anatomy program coordinator; a minimum of a C- required in prerequisite courses.

* Corequisite(s): ZOOL 232L laboratory section; at least one semester of college level experience is highly recommended.

For students who intend to pursue careers in the biomedical sciences; especially pre-nursing, pre-med, pre-dent, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 2320, but emphasizes clinical applications of the information. Students will choose and complete a course project that may involve short written reports, a term paper, or a poster presentation. Includes weekly laboratory study of human cadavers, models, and specimens.

ZOOL 232L

Human Anatomy Honors Laboratory

1:0:3 Fall, Spring

* Prerequisite(s): BIOL 1010 or BIOL 1610. ENGL 1010 or written permission of the Anatomy program coordinator.

* Corequisite(s): ZOOL 232H

For students who intend to pursue careers in the biomedical sciences; especially pre-nursing, pre-med, pre-dent, and pre-vet students. Emphasizes the role and value of anatomical knowledge in health and disease. Covers the same general material as ZOOL 2320, but emphasizes clinical applications of the information. Students will choose and complete a course project that may involve short written reports, a term paper, or a poster presentation. Includes weekly laboratory study of human cadavers, models, and specimens. Course Lab fee of \$30 applies.

ZOOL 2420

Human Physiology

3:3:0 Fall, Spring, Summer

* Prerequisite(s): (BIOL 1010 or BIOL 1610 with a minimum grade of C-) and CHEM 1110 with a minimum grade of C-

* Corequisite(s): ZOOL 2425

Studies the functions of the human body at the chemical, cellular, organ, and system levels. Explains control mechanisms involved in homeostasis and stimulus/response pathways. Involves problem solving and analytical thinking. Includes weekly laboratory.

ZOOL 2425

Human Physiology Laboratory

1:0:3 Fall, Spring, Summer

* Prerequisite(s): (BIOL 1010 or BIOL 1610) and CHEM 1110

* Corequisite(s): ZOOL 2420

Studies the functions of the human body at the chemical, cellular, organ, and system levels. Explains control mechanisms involved in homeostasis and stimulus/response pathways. Involves problem solving and analytical thinking. Includes weekly laboratory. Course Lab fee of \$24 applies.

BB

ZOOL 242H

Human Physiology

3:3:0 On Sufficient Demand

* Prerequisite(s): BIOL 1010 (or BIOL 1610) with a minimum grade of C- and CHEM 1110 with a minimum grade of C-, written permission of the physiology program coordinator

* Corequisite(s): ZOOL 242L

Studies the functions of the human body at the chemical, cellular, organ, and system levels. Explains control mechanisms involved in homeostasis and stimulus/response pathways. Involves problem solving and analytical thinking. Includes weekly laboratory. Requires a term paper, project, or presentation.

ZOOL 242L

Human Physiology Honors Laboratory

1:0:3 On Sufficient Demand

* Prerequisite(s): BIOL 1010 (or BIOL 1610), CHEM 1110, written permission of the physiology program coordinator.

* Corequisite(s): ZOOL 242H

Studies the functions of the human body at the chemical, cellular, organ, and system levels. Explains control mechanisms involved in homeostasis and stimulus/response pathways. Involves problem solving and analytical thinking. Includes weekly laboratory. Course Lab fee of \$24 applies.

ZOOL 3100

Vertebrate Zoology

3:3:0 Spring, Summer

* Prerequisite(s): (BIOL 1010 or BIOL 1620) with a C- or higher and University Advanced Standing

* Corequisite(s): ZOOL 3105

Designed for intended Biology or Zoology majors who desire a broad introduction to the vertebrates and a greater understanding of their unique structure, distribution and the importance of these organisms in the present and past history of the Earth. Covers the evolutionary development of the vertebrates pertaining to major skeletal and physiological adaptations. The approach is also ecological as to vertebrate habitat requirements, their distribution, and community roles. Includes weekly laboratory.

ZOOL 3105

Vertebrate Zoology Laboratory

1:0:2 Spring, Summer

* Prerequisite(s): University Advanced Standing

* Corequisite(s): ZOOL 3100

Laboratory portion of the course, which provides students with hands-on experience with vertebrates. Course Lab fee of \$26 applies.

ZOOL 3200

Invertebrate Zoology

3:3:0 Fall

* Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing

* Corequisite(s): ZOOL 3205 Invertebrate Zoology Laboratory

Intended for Biology Department majors. Covers the anatomy, physiology, systematics, evolution and ecology of invertebrate animals.

ZOOL 3205
Invertebrate Zoology Laboratory
1:0:2 **Fall**
 * Prerequisite(s): BIOL 1620 with a C- or higher and University Advanced Standing
 * Corequisite(s): ZOOL 3200 Invertebrate Zoology
 Intended for Biology Department majors. Covers the anatomy, physiology, systematics, evolution and ecology of invertebrate animals. Course Lab fee of \$25 applies.

ZOOL 3300
Herpetology
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): BIOL 1620 with minimum grade of C-, and University Advanced Standing
 * Corequisite(s): ZOOL 3305 Herpetology Laboratory
 Covers the evolution, ecology, and diversity of reptiles and amphibians. Includes active class discussions, oral presentations. Emphasizes native Utah herpetofauna. Must be taken concurrently with weekly laboratory and required field trips.

ZOOL 3305
Herpetology Laboratory
1:0:2 **On Sufficient Demand**
 * Prerequisite(s): BIOL 1620 with minimum grade of C-, and University Advanced Standing
 * Corequisite(s): ZOOL 3300 Herpetology
 Covers the evolution, ecology, and diversity of reptiles and amphibians. Includes active class discussions, oral presentations, and field trips. Emphasizes native Utah herpetofauna. Must be taken concurrently with lecture. Course Lab fee of \$40 for transportation, support, and lab applies.

ZOOL 3430
Entomology
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): BIOL 1620 and BIOL 1625 with a minimum grade of C- in each, and University Advanced Standing
 * Corequisite(s): ZOOL 3435
 An introduction to the study of insects, including insect diversity and classification, anatomy and physiology, relationships to other animals and plants, behavior, and ecology. Also includes the application of the study of insects to pest management, environmental assessment, and forensic investigations.

ZOOL 3435
Entomology Laboratory
1:0:2 **On Sufficient Demand**
 * Prerequisite(s): University Advanced Standing
 * Corequisite(s): ZOOL 3430
 Laboratory to accompany ZOOL 3430. Will examine collection, preservation, and identification of insects. An individual reference collection is required of each student.

ZOOL 3500
Mammalogy
3:3:0 **Fall**
 * Prerequisite(s): BIOL 1620 with a minimum grade of C-, and University Advanced Standing; ZOOL 3100 and ZOOL 3105 strongly recommended
 * Corequisite(s): ZOOL 3505
 Explores the taxonomy, morphology, behavior, ecology, evolution, development, and conservation of mammals. Includes three weekly lectures and a weekly laboratory.

ZOOL 3505
Mammalogy Laboratory
1:0:2 **Fall**
 * Prerequisite(s): University Advanced Standing
 * Corequisite(s): ZOOL 3500
 Explores the taxonomy, morphology, behavior, ecology, evolution, development, and conservation of mammals. Includes three weekly lectures and a weekly laboratory. Course Lab fee of \$56 for transportation, lab applies.

ZOOL 3700 (Cross-listed with: EXSC 3700, PES 3700)
Exercise Physiology
3:3:0 **Fall, Spring, Summer**
 * Prerequisite(s): EXSC Majors: ZOOL 2320 (or 232H), ZOOL 2325 (or 232L), and EXSC 270G all with a C- or higher and MATH 1050. PETE Majors: PETE 2700 and ZOOL 1090 with a C- or higher and (MATH 1050 or MATH 1055). All: University Advanced Standing
 * Prerequisite(s) or Corequisite(s): ZOOL 2420 (or 242H), ZOOL 2425 (or 242L)
 Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. Requires separate weekly laboratory.

ZOOL 3705 (Cross-listed with: EXSC 3705)
Exercise Physiology Laboratory
1:0:3 **Fall, Spring, Summer**
 * Prerequisite(s): University Advanced Standing
 * Corequisite(s): ZOOL 3700
 Studies acute and chronic physiological responses to exercise, as well as nutritional and environmental effects on these responses. Provides a hands-on approach where students will experience the physiological responses to different stressors in the lab setting. Covers similar material being discussed simultaneously in class. Course Lab fee of \$28 for materials applies.

ZOOL 4000
Animal Behavior
3:3:0 **Spring**
 * Prerequisite(s): BIOL 1620 and University Advanced Standing
 Examines the biological basis of animal behavior with emphasis on the underlying mechanisms and evolutionary causes of behavior. Covers first the proximate causes of behavior and then the ultimate or evolutionary causes of behavior. Specific topics include the genetic basis of behavior, perceptual and effectual systems, ethology, neurophysiology, learning, animal communication, sexual behavior, and social systems.

ZOOL 4100
Parasitology
4:3:2 **On Sufficient Demand**
 * Prerequisite(s): (BIOL 1620 or MICR 2060 or BIOL 1010) with a C- or higher and University Advanced Standing
 Introduces the study of parasites. Emphasizes the biology of principal groups of parasites affecting humans and livestock, including their medical and economic significance. Laboratory experience. Involves identification of parasites. Includes weekly laboratory.

ZOOL 4300
Histology
4:3:2 **Spring**
 * Prerequisite(s): [(ZOOL 2320 or ZOOL 232H) with a C- or higher or written instructor approval] and University Advanced Standing
 For pre-professional students pursuing biomedical careers and Biology majors with a particular interest in vertebrate structure and function. Studies the microscopic structure of the body at the cellular, tissue, and organ levels. Emphasizes physical and functional relationships of various tissues in the organs of the body. Includes weekly laboratory. Course Lab fee of \$35 applies.

ZOOL 4400
Pathophysiology
4:4:0 **Fall, Spring**
 * Prerequisite(s): ZOOL 2320, ZOOL 2420, and MICR 2060 each with a minimum grade C-, and University Advanced Standing
 For Biology majors with an emphasis in human physiology, pre-professional majors, and nursing students. Studies pathophysiological etiologies and mechanisms that cause disease and examines physiological adaptations and dysfunction of organs and organ systems in a disease state.

ZOOL 4500
Comparative Vertebrate Zoology
3:3:0 **On Sufficient Demand**
 * Prerequisite(s): ZOOL 3100 and (ZOOL 1090 or ZOOL 2320), with a grade of C- or higher, and University Advanced Standing
 * Corequisite(s): ZOOL 4505 Comparative Vertebrate Zoology Laboratory
 Studies the structure and function of vertebrates at the cellular, tissue, organ and systems levels. Emphasizes developmental and evolutionary comparative aspects of mammalian, avian, reptilian, amphibian, and piscian organs and systems.

ZOOL 4505
Comparative Vertebrate Zoology Laboratory
1:0:3 **On Sufficient Demand**
 * Prerequisite(s): ZOOL 3100 and (ZOOL 1090 or ZOOL 2320), with a grade of C- or higher, and University Advanced Standing
 * Corequisite(s): ZOOL 4500 Comparative Vertebrate Zoology
 Studies the structure and function of vertebrates at the cellular, tissue, organ and systems levels. Emphasizes developmental and evolutionary comparative aspects of mammalian, avian, reptilian, amphibian, and piscian organs and systems. Course Lab fee of \$24 applies.

ZOOL 4600
Ornithology
4:3:2 **On Sufficient Demand**
 * Prerequisite(s): BIOL 1620 and University Advanced Standing; ZOOL 3100 and ZOOL 3105 highly recommended
 Provides an in-depth study of avian evolution, systematics, developmental anatomy (wings, beaks, feathers), physiology, and social and reproductive behavior. Emphasizes an evolutionary and adaptive theme to the study of birds. Includes lectures, laboratories and field trips. Course Lab fee of \$41 for transportation, lab applies.

Course Descriptions

ZOOL 4700

Advanced Anatomy

4:3:3 **Fall, Spring**

* Prerequisite(s): ZOOL 2320 with a minimum grade of C- and University Advanced Standing

For students interested in biomedical science careers or with a special interest in anatomy. Covers principles and techniques of anatomical investigation and specimen preparation. Provides supervised experience in human cadaver dissection, anatomic interpretation of radiographs, craniometrics, and palpation of the body. A regional dissection approach will be used in the lab. Requires problem solving and analytical thinking. Includes the theory and basic principles of various forms of diagnostic imaging, light and electron microscopy, skeletal preparation, and injection/maceration techniques. Includes weekly laboratory. Course Lab fee of \$13 applies.

ZOOL 4750

Human Physiology A Cell Biology

Approach

4:3:3 **On Sufficient Demand**

* Prerequisite(s): BIOL 3400 and University Advanced Standing

Addresses physiological principles and functions of the human body systems at the molecular level. Emphasizes cell signal transduction involved in the body maintaining homeostasis. Gives special attention to nervous, muscular, cardiovascular, urinary and respiratory systems. Students will be required to use problem solving and analytical thinking skills to be successful in the class. Includes weekly laboratory. Course Lab fee of \$25 applies.

ZOOL 4780

Neuroscience

4:4:0 **Fall**

* Prerequisite(s): ZOOL 2420 with a C- or higher and University Advanced Standing

Focuses on neurobiology and neuroscience, covering aspects of molecular and cell biology, physiology, pharmacology, anatomy and the interplay of these and other disciplines in our understanding of the structure and function of the nervous system. Topics to be covered include neuroanatomy and developmental neurobiology, electrophysiology and membrane specializations related to signal propagation and signal transmission, neurotransmitter function and neuropharmacology, structure and function of simple neuronal circuits and complex neural networks and the plasticity of the nervous system, among others. Incorporates discussion of journal articles related to the latest advances in neuroscience. Requires students write a paper on a neuroscience topic of interest to them.

Graduate Studies

As a regional state university, Utah Valley University provides quality academic learning opportunities through programs at the graduate levels. For information on these programs, contact the following individuals:

Office of Graduate Studies

- **James A. Bailey**
- Office: WB 117
- Telephone: 801-863-6493
- E-mail: baileyja@uvu.edu
- **Administrative Support:** Shaunna Reher
- Office: BA 216
- Telephone: 801-863-7348
- E-mail: graduate_studies@uvu.edu
- Fax: 801-863-6815

Graduate Program Directors/Coordinators

- **Master of Accountancy:** Joel Helquist
- Office: WB 147d
- Telephone: 801.863.8307
- E-mail: joel.helquist@uvu.edu
- **Master of Business Administration:** Bill Neal
- Office: WB 127
- Telephone: 801.863.6148
- E-mail: william.neal@uvu.edu
- **Master of Computer Science:** Curtis Welborn
- Office: CS 520f
- Telephone: 801.863.7058
- E-mail: curtis.welborn@uvu.edu
- **Master of Education/Graduate Certificate in Secondary Teaching:** Mary Sowder
- Office: ME 116c
- Telephone: 801.863.5282
- E-mail: mary.sowder@uvu.edu
- **Master of Public Service:** Tom Sturtevant
- Office: HA 202
- Telephone: 801.863.7518
- E-mail: tom.sturtevant@uvu.edu
- **Master of Science in Cybersecurity/Graduate Certificate in Cybersecurity:** Robert Jorgensen
- Office: CS 620
- Telephone: 801.863.5282
- E-mail: robert.jorgensen@uvu.edu
- **Master of Science in Nursing:** Marianne Craven
- Office: HP 203s
- Telephone: 801-863-8052
- E-mail: cravenma@uvu.edu
- **Master of Social Work:** Lars Eggertson
- Office: CB 210d
- Telephone: 801-863-6731
- E-mail: larse@uvu.edu
- **Graduate Certificate in Mathematics:** Christine Walker
- Office: LA 121k
- Telephone: 801-863-8634
- E-mail: Christine.walker@uvu.edu

Graduate Policies and Procedures

Graduate Admission Offer Attendance Requirement

Graduate Studies

Acceptance of graduate admissions offers is valid only for the semester in the offer. Applicants who do not begin attendance during the semester in their admissions offers must reapply and pay the application fees before the applicable semester deadline. At the graduate program's discretion, graduate programs may defer enrollment if students apply for a deferment before the end of the semester for which they were admitted.

Continuous Registration Requirement

Once admitted and enrolled, graduate students shall maintain continuous registration during fall and spring semesters and during summer semester if required by the graduate program.

If graduate students cannot maintain continuous registration, they should file for a leave of absence through their graduate program.

Students who fail to maintain continuous registration and who have not been granted an official leave of absence shall be suspended from their graduate program. They shall be ineligible to register for future semesters unless they are readmitted through their graduate program's procedures.

Minimum GPA Requirement

Graduate students shall maintain a minimum cumulative 3.0 GPA to remain in their graduate programs.

Graduate students whose cumulative GPA falls below 3.0 shall be placed on academic probation for the following semester. Students whose GPAs remain below 3.0 after the probation semester shall be suspended from their graduate program and shall not be permitted to register or attend graduate courses.

Graduate students who are suspended from a graduate program for failing to maintain a cumulative 3.0 GPA may appeal in writing to the director of the graduate program within 30 days of the suspension. Supporting materials and information justifying the request should be supplied.

The graduate program director shall present the written appeal to the program graduate faculty for consideration. The decision of the program graduate faculty shall be final.

Readmission of Suspended Students

Graduate students suspended from the University for violation of Policy 510 or Policy 541 Student Rights and Responsibilities Code who wish to complete their program of study must apply for readmission to the applicable graduate program. The graduate faculty may review the reason for suspension when considering suspended students for readmission.

Minimum Graduation and Individual Course GPA Requirements

A cumulative grade-point average of 3.0 or higher shall be maintained in graduate program courses in order to graduate with a graduate degree or graduate certificate. Individual programs may establish higher grade-point-average requirements.

Credit for courses in which a student earns a grade of C- or lower shall not be applied toward any master's degree or graduate certificate program. Individual graduate programs may establish higher minimum grade requirements for individual courses.

Maximum Time Limit for Graduate Coursework

Graduate coursework shall be completed within a period of six years; individual programs may require graduate coursework be completed in fewer than six years. When extenuating circumstances warrant, a student may request an extension to coursework completion time limits.

The registrar shall assess the age of earned credits when students are accepted into a graduate program and when they apply for graduation. Graduate course credits older than university or program maximums shall not be applied toward a master's degree or graduate certificate.

To request an extension to coursework completion time limits, a student shall submit the request in writing to the program director (or his or her designee) of the applicable school or college. The program director's decision shall be final.

undefined

Woodbury School of Business

- **Dean:** Norman S. Wright
- **Office:** WB 128b
- **Telephone:** 801-863-8260
- **Email:** norman.wright@uvu.edu

Master of Business Administration

- **Program Director:** Bill Neal
- **Office:** CS 601g
- **Telephone:** 801-863-6148
- **Email:** william.neal@uvu.edu

- **Admissions (Part-time Program) and Marketing Manager:** Matthew Moon
- **Office:** WB 127a
- **Telephone:** 801-863-5099
- **Email:** mmoon@uvu.edu

- **Admissions Coordinator (Full-time Program):** Gina Johnson
- **Office:** WB 146p
- **Telephone:** 801-863-7494

- **Email:** gina.johnson@uvu.edu
- **Administrative Support:** Monique Roese
- **Office:** WB 127
- **Telephone:** 801-863-5504
- **Email:** moniquer@uvu.edu
- **Academic Advisor:** Terry Smith
- **Office:** WB 132a
- **Telephone:** 801-863-8314
- **Email:** acordte@uvu.edu

Program Description

For complete and current information about the MBA program, please access our web at www.uvu.edu/mba.

The Masters of Business Administration at UVU includes two distinct options, both of which offer emphases in management or accounting.

1. The **Part-time Professional MBA Program** leverages the management experiences of our professional students while focusing on application and practice through the use of group discussions, case studies, simulations, projects, and interaction with regional organizations and business leaders. Classes are held on Tuesday and Thursday evenings on the Orem campus which begins fall semester (August). Additionally, classes are held on Monday and Wednesday evenings at the Thanksgiving Point location which begins spring semester (January).
2. The **Full-time Accelerated MBA Program** is designed to meet the needs of students who have completed their undergraduate degree and would like to continue their education through an enhanced one-year, three-semester program. The format requires a full-time effort as classes, workshops, and events are scheduled throughout the week. Due to the rigorous demands of this program, employment during enrollment is limited to 15-20 hours per week. Courses concentrate on real-world and engaged activities designed to assist students as they prepare to enter the business world.

The MBA program embraces the university's designation as an engaged learning campus. Students immerse themselves in all aspects of business management, including accounting, leadership, marketing, economics, ethics, and social responsibility. Throughout the program, students will participate in several integration modules designed to assimilate the various functions of business through simulations, comprehensive case studies and real-world learning projects.

Prerequisites

After students are admitted into either the full-time or part-time program, they may demonstrate knowledge proficiency of all prerequisites by submitting official transcripts with a "B-" or higher in equivalent courses, *OR* by completing an online, abbreviated MBA Prep Course, **prior** to starting the program. Prerequisites include:

- Financial Accounting and Managerial Accounting
- Principles of Microeconomics and Macroeconomics
- Principles of Finance (*within the last 5 years*)
- Statistics (*within the last 5 years*)
- Excel proficiency (*within the last 5 years*)

NOTE: Students who choose to meet these requirements by completing the MBA Prep Courses will need to obtain 80% or higher on the final assessment for each course. The prep courses may be completed through pre-determined MyEducator or Harvard Business Publishing curriculum.

ACCOUNTING TRACK PREREQUISITES

In addition to the courses listed above, all students pursuing the **accounting emphasis** must fulfill the following additional prerequisites (or equivalents) with a grade of C- or higher.

- Intermediate Accounting I
- Intermediate Accounting II
- Cost Management
- Individual Income Tax
- Accounting Information Systems
- Advanced Financial Accounting
- Auditing
- Corporate Tax

Application Process

Baccalaureate degree holders with both business and non-business majors may apply. Deadlines and current application requirements are posted on the website, www.uvu.edu/mba. Applicants must submit all of the following to the Woodbury School of Business:

1. **Application** – Complete online at www.uvu.edu/mba and pay the \$45 application fee (\$145 for international students).
 2. After submitting the application fee, applicants will access their account and select *Supplemental Items* to complete the additional requirements listed below.
 - **Recommendations** - List the name and email address of three individuals who will be sent a link to submit their recommendation.
 - **Essays** - Submit responses for two essay questions.
 - **Resume** - Attach current resume which highlights educational background and professional work experience.
 - **College Transcripts** - *After the application fee has been paid*, request official transcripts to be sent to etranscript@uvu.edu. Transcripts will be evaluated based on cumulative GPA or last 60 semester credits.
 - **Graduate Test** - Provide evidence of potential for success which may be demonstrated by submitting an official GMAT or GRE test score.
1. a. Goal is to obtain a 500 or above on the GMAT (perfect score is 800); GRE scores are converted to determine a GMAT equivalent.

Graduate Studies

- b. Test preparation resources and registration information available at www.uvu.edu/mba.

NOTE: Consideration to waive the graduate test requirement may be given to students with a GPA of 3.6 or higher and who have an interview with the MBA program director.

International Student Applicants should also complete the following:

1. **English Proficiency** - Submit official TOEFL or IELTS scores. Required of applicants for whom English is a second language *AND* who earned a bachelor's degree outside of the United States. (Minimum TOEFL score of 80 or above or an IELTS score of 6.5 or higher.) The MBA office reserves the right to not waive the English proficiency requirement to ensure students will be adequately prepared for the rigors of the MBA program.
2. **Affidavit of Support** - Upload a signed form completed by person accepting financial responsibility.
3. **Bank Statement** - Provide document as requested on Affidavit of Support from student or sponsor.
4. **City of Passport** - Attach a copy of the passport for the student and any dependents who will also need an I-20.
5. **Interview** - An interview may be required as part of the application review process.

Application Deadlines

- Application window – September 1 through April 1, or until the cohort is full. *See MBA Office for details.*
- Rolling Admissions – Applicants are generally notified of an admission decision within a few weeks.
- A limited number of Graduate Assistantships are available annually with students able to earn \$5,000 to \$10,000.

Application deadlines for international students:

- If outside the U.S. - Summer Start, March 15; Fall Start, May 1
- If in the U.S. - Summer Start, April 1; Fall Start, May 15

Reapplication

If an applicant is not admitted, he/she may reapply again at a later time. All current admission requirements at the time of application must be met.

Satisfactory Progress

Continuation in the Master of Business Administration program is determined by: (1) satisfactory progress (C or higher) in all courses (completed courses with a grade lower than a C must be repeated) and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than C; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Business Administration program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the Master of Business Administration program is a requirement for enrollment into all Master of Business Administration courses.

Sample of Employers who have Hired Graduates

Goldman Sachs, Xactware, NuSkin, Walmart, Franklin Templeton, Adobe, Qualtrics, Domo, Blackpine, Xlear, Vivint, IHC, IM Flash, Boeing, DoTERRA, Delta Airlines, US Synthetics, Proof Point, VitalSmarts, AutoSource, Journal Technologies, Greener Equities, State of Utah, Bank of America Fork, inVentiv Health, Zennoa, Turbo Air, LH Miller Sports and Entertainment, America Preparatory Schools, Purch, KPMG, Zions Bank, Wasatch Product Development

2018-19 Master of Business Administration--Tuition and Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
1	\$612	\$35	\$647	1	\$1,328	\$35	\$1,363	
2	\$1,224	\$70	\$1,294	2	\$2,656	\$70	\$2,726	
3	\$1,836	\$105	\$1,941	3	\$3,984	\$105	\$4,089	
4	\$2,448	\$140	\$2,588	4	\$5,312	\$140	\$5,452	
5	\$3,060	\$175	\$3,235	5	\$6,640	\$175	\$6,815	
6	\$3,672	\$210	\$3,882	6	\$7,968	\$210	\$8,178	

7	\$4,284	\$245	\$4,529		7	\$9,296	\$245	\$9,541
8	\$4,896	\$280	\$5,176		8	\$10,624	\$280	\$10,904
9	\$5,508	\$315	\$5,823		9	\$11,952	\$315	\$12,267
10	\$6,120	\$350	\$6,470		10	\$13,280	\$350	\$13,630
11	\$6,732	\$350	\$7,082		11	\$14,608	\$350	\$14,958
Equal Tuition Payment for 12.0-18.0 credit hours								
12	\$7,344	\$350	\$7,694		12	\$15,936	\$350	\$16,286
13	\$7,344	\$350	\$7,694		13	\$15,936	\$350	\$16,286
14	\$7,344	\$350	\$7,694		14	\$15,936	\$350	\$16,286
15	\$7,344	\$350	\$7,694		15	\$15,936	\$350	\$16,286
16	\$7,344	\$350	\$7,694		16	\$15,936	\$350	\$16,286
17	\$7,344	\$350	\$7,694		17	\$15,936	\$350	\$16,286
18	\$7,344	\$350	\$7,694		18	\$15,936	\$350	\$16,286
End of Equal Tuition Payment for 12.0-18.0 credit hours								
19	\$7,956	\$350	\$8,306		19	\$17,264	\$350	\$17,614
20	\$8,568	\$350	\$8,918		20	\$18,592	\$350	\$18,942

Master of Business Administration-Accounting Emphasis, M.B.A.	36 Credits
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The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

The full-time track for the Master of Business Administration program at Utah Valley University is a one year, accelerated MBA program that offers either of two concentration areas in management or accounting.

The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university's designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.

The MBA program is AACSB accredited.

Total Program Credits: 36

Discipline Core Requirements:			27 Credits
ACC 6350	Accounting Strategies for Achieving Profit Goals		3
FIN 6150	Financial Management		3
ECON 6300	Managerial Economics		3
MGMT 6000	Career Development and Advancement		1.5
MGMT 6500	Managing Individuals and Groups		3
MGMT 6800	Global Business Strategy		3
MGMT 6910	Designing Business		1.5
MGMT 6930	International Engagement		1.5
MGMT 6940	MBA Consulting Project		3
MKTG 6600	Marketing Strategy (3.0)		3
MKTG 6920	Creativity and Innovative Problem Solving		1.5
Emphasis Requirements:			9 Credits
ACC 6410	Tax Research and Procedure		3
ACC 6510	Financial Auditing		3
ACC 6960	Accounting Theory and Research		3

Graduate Studies

Graduation Requirements:

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and Italicized.

Semester 1	Course Title	Credit Hours
MGMT 6910	Designing Business	1.5
<i>ACC 6510*</i>	Financial Auditing	3
MGMT 6500*	Managing Individuals and Groups	3
<i>ACC 6410**</i>	Tax research and Procedure	3
MGMT 6000	Career Development and Advancement	1.5
	Semester total:	12*/6**
Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track.		
Semester 2	Course Title	Credit Hours
MKTG 6920	Creativity and Innovative Problem Solving	1.5
<i>ACC 6410*</i>	Tax Research and Procedures	3
MGMT 6930*	Integration Module III--International Engagement	1.5
MKTG 6600*	Marketing Strategy	3
<i>ACC 6960**</i>	Accounting Theory and Research	3
	Semester total:	12*/6**
Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track.		
Semester 3	Course Title	Credit Hours
FIN 6150	Financial Management	3
MGMT 6800	Global Business Strategy	3
MGMT 6940*	MBA consulting Project	3
<i>ACC 6960*</i>	Accounting Theory and Research	3
	Semester total:	12*/6**
Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track. The full time track concludes in Semester 3		
Semester 4	Course Title	Credit Hours
<i>ACC 6510**</i>	Financial Auditing	3
ECON 3030	Managerial Economics	3
	Semester total:	6**
Notes: ** Part time track only in this semester		
Semester 5	Course Title	Credit Hours
MGMT 6000	Career Development and Advancement	1.5
MGMT 6930**	International Engagement	1.5
<i>ACC 6350**</i>	Accounting Strategies for Achieving Profit Goals	3
	Semester total:	6**

Notes: ** Part time track only in this semester		
Semester 6	Course Title	Credit Hours
ACC 6350*	Accounting Strategies for Achieving Profit Goals	3
MGMT 6940**	MBA Consulting Project	3
	Semester total:	6**
Notes: ** Part time track only in this semester		
	Degree total:	36

Careers:	
The job market will likely hold steady for 2014 MBA graduates, according to the Graduate Management Admission council. More than three-quarters of employers that plan to hire graduates expect to maintain or increase their hiring this year. They also report that projected hiring for 2014 is much improved from a few years ago. In addition, between 45 and 58 percent of employers plan to increase annual base salaries at or above the rate of inflation, an indicator that demand for talented graduates remains strong.	

Master of Business Administration-Finance Emphasis, M.B.A.	36 Credits
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The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

The full-time track for the Master of Business Administration program at Utah Valley University is a one year, accelerated MBA program that offers either of two concentration areas in management or accounting.

The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university's designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.

The MBA program is AACSB accredited.

Total Program Credits: 36

Discipline Core Requirements:		27 Credits
ACC 6350	Accounting Strategies for Achieving Profit Goals	3
FIN 6150	Financial Management	3
ECON 6300	Managerial Economics	3
MGMT 6000	Career Development and Advancement	1.5
MGMT 6500	Managing Individuals and Groups	3
MGMT 6800	Global Business Strategy	3
MGMT 6910	Designing Business	1.5
MGMT 6930	International Engagement	1.5
MGMT 6940	MBA Consulting Project	3
MKTG 6600	Marketing Strategy (3.0)	3
MKTG 6920	Creativity and Innovative Problem Solving	1.5
Emphasis Requirements:		9 Credits
FIN 6130	Financial Statement Analysis and Modeling	3
FIN 6160	International Financial Management	3
FIN 6170	Investment Analysis and Portfolio Analysis	3

Graduation Requirements:

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.

Graduate Studies

4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
ACC 6350	Accounting Strategies for Achieving Profits	3
MGMT 6000	MBA Seminar	1.5
MGMT 6500	Effectively Managing and Facilitating Teams	3
MKTG 6900	Creativity and Innovative Problem Solving	1.5
FIN 6130	Financial Statement Analysis and Modeling	3
	Semester total:	12
Semester 2	Course Title	Credit Hours
FIN 6150	Financial Management	3
MGMT 6910	Designing Business	1.5
MGMT 6930	International Engagement	1.5
MKTG 6600	Marketing Strategy	3
FIN 6170	Investment Analysis and Portfolio Analysis	3
	Semester total:	12
Semester 3	Course Title	Credit Hours
ECON 6300	Managerial Economics	3
MGMT 6800	Global Business Strategy	3
MGMT 6940	MBA consulting	3
FIN 6160	International Financial Management	3
	Semester total:	12
	Degree total:	36

Careers:		
<p>The job market will likely hold steady for 2014 MBA graduates, according to the Graduate Management Admission council. More than three-quarters of employers that plan to hire graduates expect to maintain or increase their hiring this year. They also report that projected hiring for 2014 is much improved from a few years ago. In addition, between 45 and 58 percent of employers plan to increase annual base salaries at or above the rate of inflation, an indicator that demand for talented graduates remains strong.</p>		

Master of Business Administration-Management Emphasis, M.B.A	36 Credits
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The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

The full-time track for the Master of Business Administration program at Utah Valley University is a one year, accelerated MBA program that offers either of two concentration areas in management or accounting.

The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university's designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.

The MBA program is AACSB accredited.

Discipline Core Requirements:			27 Credits
ACC 6350	Accounting Strategies for Achieving Profit Goals		3
FIN 6150	Financial Management		3
ECON 6300	Managerial Economics		3
MGMT 6000	Career Development and Advancement		1.5
MGMT 6500	Managing Individuals and Groups		3
MGMT 6800	Global Business Strategy		3
MGMT 6910	Designing Business		1.5
MGMT 6930	International Engagement		1.5
MGMT 6940	MBA Consulting Project		3
MKTG 6600	Marketing Strategy (3.0)		3
MKTG 6920	Creativity and Innovative Problem Solving		1.5
Emphasis Requirements:			9 Credits
MKTG 6860	Applied Business Research		3
MGMT 6510	Information Systems and Project Management		3
MGMT 6740	Operations and Supply Chain Management		3

Graduation Requirements:

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
MKTG 6860	Applied Business Research	3
MGMT 6910	Designing Business	1.5
MGMT 6500*	Managing Individuals and Groups	3
ACC 6350*	Accounting Strategies for Achieving Profit Goals	3
MGMT 6000	Career Development and Advancement	1.5
	Semester total:	12*/6**
Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track.		
Semester 2	Course Title	Credit Hours
ECON 6300	Managerial Economics	3
MKTG 6920	Creativity and Innovative Problem Solving	1.5
MGMT 6930*	Integration Module III--International Engagement	1.5
MKTG 6600*	Marketing Strategy	3
MGMT 6740*	Operations and Supply Chain Management (Pre-requisites required to be taken. Please see the advisor.)	3
	Semester total:	12*/6**
Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track.		
Semester 3	Course Title	Credit Hours
FIN 6150	Financial Management	3

Graduate Studies

MGMT 6800	Global Business Strategy	3
MGMT 6940*	MBA consulting Project	3
MGMT 6510*	Value Creation Through Information systems Management	3
	Semester total:	12*/6**
Notes: Unmarked courses are taken by both tracks while * Full time track and **Part time track. The full time track concludes in Semester 3		
Semester 4	Course Title	Credit Hours
MGMT 6510**	Information Systems and Project Management	3
MGMT 6860**	Applied Business Research	3
	Semester total:	6**
Notes: ** Part time track only in this semester		
Semester 5	Course Title	Credit Hours
MGMT 6930**	Integration Module III--International Engagement	1.5
ACC 6350**	Accounting Strategies for Achieving Profit Goals	3
MGMT 6000	Career Development and Advancement	1.5
	Semester total:	6**
Notes: ** Part time track only in this semester		
Semester 6	Course Title	Credit Hours
MGMT 6740**	Operations and Supply Chain Management (Pre-requisites are required to be taken. Please see the advisor.)	3
MGMT 6940**	MBA Consulting Project	3
	Semester total:	6**
Notes: ** Part time track only in this semester		
	Degree total:	36

Careers:		
The job market will likely hold steady for 2014 MBA graduates, according to the Graduate Management Admission council. More than three-quarters of employers that plan to hire graduates expect to maintain or increase their hiring this year. They also report that projected hiring for 2014 is much improved from a few years ago. In addition, between 45 and 58 percent of employers plan to increase annual base salaries at or above the rate of inflation, an indicator that demand for talented graduates remains strong.		

Master of Business Administration-Marketing Emphasis, M.B.A.	36 Credits
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The UVU Master of Business Administration is an applied graduate degree that reflects the Woodbury School of Business's long and distinguished history of providing excellence in business education. Our innovative team-based curriculum reaches beyond the walls and textbooks of a traditional program and includes not only instruction in the disciplines of business, but also offers many opportunities to apply important skills such as leadership, teamwork, ethical decision making, critical thinking and problem solving, written and oral communication as they are woven throughout the curriculum. Students immerse themselves in all aspects of business management, including accounting, marketing, economics, and social responsibility. Students participate in an international project and travel to the country of their project hosts. The program culminates with a comprehensive real-life consulting project with a company operating in our region.

The full-time track for the Master of Business Administration program at Utah Valley University is a one year, accelerated MBA program that offers either of two concentration areas in management or accounting.

The part-time track for the Master of Business Administration program at Utah Valley University is a two year plan for working professionals which embraces the university's designation as an engaged learning campus and also offers either of two concentration areas in management or accounting.

The MBA program is AACSB accredited.

Total Program Credits: 36

Discipline Core Requirements:		27 Credits
ACC 6350	Accounting Strategies for Achieving Profit Goals	3
FIN 6150	Financial Management	3

ECON 6300	Managerial Economics	3
MGMT 6000	Career Development and Advancement	1.5
MGMT 6500	Managing Individuals and Groups	3
MGMT 6800	Global Business Strategy	3
MGMT 6910	Designing Business	1.5
MGMT 6930	International Engagement	1.5
MGMT 6940	MBA Consulting Project	3
MKTG 6600	Marketing Strategy (3.0)	3
MKTG 6920	Creativity and Innovative Problem Solving	1.5
Emphasis Requirements:		9 Credits
MKTG 6620	Marketing Research and Analytics	3
MKTG 6640	Brand, Product, and Services Management	3
MKTG 6660	Marketing Channels and Communications	3

Graduation Requirements:

1. Completion of 36 hours of approved credit with no grade lower than a "C" as described in this program.
2. Graduates may not transfer more than ten hours into this MBA program, preferably from an AACSB accredited institution. All transfer courses will be reviewed by a graduate committee managed by the Woodbury School of Business.
3. Final approval for graduation will be determined by the MBA graduate committee of the Woodbury School of Business.
4. A minimum cumulative GPA of 3.0 or higher must be maintained within program.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and Italicized.

Semester 1	Course Title	Credit Hours
ACC 6350	Accounting Strategies for Achieving Profits	3
MGMT 6000	Career Development and Advancement	1.5
MGMT 6500	Managing Individuals and Groups	3
MKTG 6900	Creativity and Innovative Problem Solving	1.5
MKTG 6620	Marketing Research and Analytics	3
	Semester total:	12
Semester 2	Course Title	Credit Hours
FIN 6150	Financial Management	3
MGMT 6910	Designing Business	1.5
MGMT 6930	International Engagement	1.5
MKTG 6600	Marketing Strategy	3
MKTG 6640	Brand, Product, and Services Management	3
	Semester total:	12
Semester 3	Course Title	Credit Hours
ECON 6300	Managerial Economics	3
MGMT 6800	Global Business Strategy	3
MGMT 6940	MBA Consulting	3
MKTG 6660	Marketing Channels and Communications	3
	Semester total:	12
	Degree total:	36

Graduate Studies

Careers:		
<p>The job market will likely hold steady for 2014 MBA graduates, according to the Graduate Management Admission council. More than three-quarters of employers that plan to hire graduates expect to maintain or increase their hiring this year. They also report that projected hiring for 2014 is much improved from a few years ago. In addition, between 45 and 58 percent of employers plan to increase annual base salaries at or above the rate of inflation, an indicator that demand for talented graduates remains strong.</p>		

College of Science

- **Dean:** Daniel Fairbanks
- **Office:** SB 241
- **Telephone:** 801-863-6441
- **Email:** daniel.fairbanks@uvu.edu

Graduate Certificate in Regulatory Affairs for Life Sciences

- **Department Chair:** Jim Price
- **Office:** SB 243e
- **Telephone:** 801-863-8605
- **Email:** bayervi@uvu.edu

- **Advisor:** Terrell Wycne
- **Office:** HP 203a
- **Telephone:** 801-863-6208
- **Email:** wycne@uvu.edu

Program Description

The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Admission Requirements

1. Bachelor degree from a regionally accredited US college or university.
2. A Minimum GPA of 3.0 on a 4.0 scale.

2018-19 Base Graduate-Tuition and General Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00	
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00	
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00	
2.0	566.00	70.00	636.00	2.0	1,726.00	70.00	1,796.00	
2.5	707.50	87.50	795.00	2.5	2,157.50	87.50	2,245.00	
3.0	849.00	105.00	954.00	3.0	2,589.00	105.00	2,694.00	
3.5	990.50	122.50	1,113.00	3.5	3,020.50	122.50	3,143.00	
4.0	1,132.00	140.00	1,272.00	4.0	3,452.00	140.00	3,592.00	
4.5	1,273.50	157.50	1,431.00	4.5	3,883.50	157.50	4,041.00	
5.0	1,415.00	175.00	1,590.00	5.0	4,315.00	175.00	4,490.00	
5.5	1,556.50	192.50	1,749.00	5.5	4,746.50	192.50	4,939.00	
6.0	1,698.00	210.00	1,908.00	6.0	5,178.00	210.00	5,388.00	
6.5	1,839.50	227.50	2,067.00	6.5	5,609.50	227.50	5,837.00	
7.0	1,981.00	245.00	2,226.00	7.0	6,041.00	245.00	6,286.00	
7.5	2,122.50	262.50	2,385.00	7.5	6,472.50	262.50	6,735.00	

8.0	2,264.00	280.00	2,544.00		8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00		8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00		9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00		9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00		10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50		10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00		11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50		11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00		12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50		12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00		13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50		13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00		14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50		14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00		15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50		15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00		16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50		16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00		17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50		17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00		18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50		18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00		19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50		19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00		20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50		20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00		21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50		21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00		22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50		22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00		23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50		23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00		24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50		24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00		25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

Regulatory Affairs for Life Sciences, Graduate Certificate	15 Credits
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The Regulatory Affairs for Life Sciences Graduate Certificate program will provide students with the skills required to interpret and manage regulatory and quality compliance issues that are critical for the Life Sciences. The curriculum materials include formal studies that are specific to regulatory sciences (domestic and international), quality management system, and design control. Students will gain experience in technical communications with an emphasis on the theory and practice of technical writing as it relates to industry-based submissions. Students will participate in an internship or capstone project with a medical device, pharmaceutical, diagnostics, or biotechnology company. A baccalaureate degree in a science or a technology-related area of study will be required.

Total Program Credits: 15

Matriculation Requirements:
1. B.S. degree in Biology, Biotechnology, or related field.

Graduate Studies

Discipline Core Requirements:			15 Credits
	BIOL 6000	Regulatory Affairs for Life Sciences	4
	BIOL 6010	Quality Management Systems for the Life Sciences	2
	BIOL 6020	Design Control and Risk Management for the Life Sciences	3
	ENGL 5340	Technical Communication Theory and Practice	3
	BIOL 579R	Special Topics	2
	BIOL 681R	Biology Internship	1
or	BIOL 680R	Capstone Project (1.0)	

Graduation Requirements:

1. Minimum of 15 credits required for certificate
2. Minimum GPA of 3.0 for graduation
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>BIOL 6000</i>	Regulatory Affairs for Life Sciences	4
ENGL 5340	Technical Communication Theory and Practice	3
BIOL 579R	Special Topics	2
	Semester total:	9
Semester 2	Course Title	Credit Hours
BIOL 6010	Quality Management Systems for the Life Sciences	2
BIOL 6020	Design Control and Risk Management for the Life Sciences	3
BIOL 681R or BIOL 680R	Biology Internship or Capstone Project	1
	Semester total:	6
	Degree total:	15
Careers:		

College of Science

- **Dean:** Daniel Fairbanks
- **Office:** SB 241h
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Graduate Certificate in Mathematics

- **Department Chair:** Bob Palais
- **Office:** LA 121h
- **Telephone:** 801-863-5412
- **Email:** bob.palais@uvu.edu
- **Coordinator:** Christine Walker
- **Office:** LA 121k
- **Telephone:** 8634

- **Email:**christine.walker@uvu.edu
- **Advisor:** Emily Platt
- **Office:** LA 109h
- **Telephone:** 801-863-6426
- **Email:**emily.platt@uvu.edu
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Program Description

Utah Valley University Mathematics Department offers a two-year part-time course of study for secondary-level teachers leading to a Graduate Certificate in Mathematics. This program is intended for students who wish to teach concurrent enrollment or college-level math courses, but lack the minimum 18 graduate credit hours in mathematics.

This program offers required courses in the areas of Topology, Combinatorics, Statistics, Numerical Analysis, Numerical Methods and Modeling, Modern Algebra and Ordinary Differential Equations.

Admission Requirements

Potential students must apply for admission into the program. To be accepted, students must have a current Mathematics Endorsement Level 4 certificate, attached to an Educator License Secondary teacher, exception, Alternative Routes to Licensure (ARL).

2018-19 Base Graduate-Tuition and General Fee Schedule								
Resident					Non-Resident			
Credit Hours	Tuition	Fees	Total		Credit Hours	Tuition	Fees	Total
0.5	141.50	17.50	159.00		0.5	431.50	17.50	449.00
1.0	283.00	35.00	318.00		1.0	863.00	35.00	898.00
1.5	424.50	52.50	477.00		1.5	1,294.50	52.50	1,347.00
2.0	566.00	70.00	636.00		2.0	1,726.00	70.00	1,796.00
2.5	707.50	87.50	795.00		2.5	2,157.50	87.50	2,245.00
3.0	849.00	105.00	954.00		3.0	2,589.00	105.00	2,694.00
3.5	990.50	122.50	1,113.00		3.5	3,020.50	122.50	3,143.00
4.0	1,132.00	140.00	1,272.00		4.0	3,452.00	140.00	3,592.00
4.5	1,273.50	157.50	1,431.00		4.5	3,883.50	157.50	4,041.00
5.0	1,415.00	175.00	1,590.00		5.0	4,315.00	175.00	4,490.00
5.5	1,556.50	192.50	1,749.00		5.5	4,746.50	192.50	4,939.00
6.0	1,698.00	210.00	1,908.00		6.0	5,178.00	210.00	5,388.00
6.5	1,839.50	227.50	2,067.00		6.5	5,609.50	227.50	5,837.00
7.0	1,981.00	245.00	2,226.00		7.0	6,041.00	245.00	6,286.00
7.5	2,122.50	262.50	2,385.00		7.5	6,472.50	262.50	6,735.00
8.0	2,264.00	280.00	2,544.00		8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00		8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00		9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00		9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00		10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50		10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00		11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50		11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00		12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50		12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00		13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50		13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00		14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50		14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00		15.0	12,945.00	350.00	13,295.00

Graduate Studies

15.5	4,386.50	350.00	4,736.50		15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00		16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50		16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00		17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50		17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00		18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50		18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00		19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50		19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00		20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50		20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00		21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50		21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00		22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50		22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00		23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50		23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00		24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50		24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00		25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

Mathematics, Graduate Certificate	18 Credits
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The Graduate Certificate in Mathematics aims to improve mathematics education and student achievement by focusing on two specific research-supported areas. First, by delivering high-quality content-based knowledge critical to student achievement, and second, by targeting in-service teachers who desire to teach dual credit in high school, given that dual-credit/dual-enrollment students are more likely to persist in college and are more likely to complete a bachelor's degree in less time than those who did not attempt college credits in high school. Graduate courses for this program will be available to match in-service teacher's schedules—evenings and during summer sessions—taught on the main campus and live-interactive by Utah Valley University's full-time faculty.

Total Program Credits: 18

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Application for admission to the program. 2. Bachelor's degree required, Mathematics Endorsement 4, from an accredited institution. 		
Discipline Core Requirements:		18 Credits
Complete Six of the following courses for a total of 18 credits		18
MATH 6100	Topics in Geometry and Topology (3)	
MATH 6310	Modern Algebra (3)	
MATH 6350	Introduction to Combinatorics (3)	
MATH 6410	Topics in Ordinary Differential Equations (3)	
MATH 6610	Numerical Methods and Modeling (3)	
MATH 6620	Topics in Numerical Analysis (3)	
STAT 6010	Theory of Statistics (3)	
or other approved courses		

Graduation Requirements:

1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 12 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
MATH 6100	Topics in Geometry and Topology	3
MATH 6350	Introduction to Combinatorics	3
	Semester total:	6
Semester 2	Course Title	Credit Hours
STAT 6010	Theory of Statistics	3
MATH 6300	Modern Algebra	3
	Semester total:	6
Semester 3	Course Title	Credit Hours
MATH 6620	Topics in Numerical Analysis	3
MATH 6610	Numerical Methods and Modeling	3
	Semester total:	6
	Degree total:	18

College of Engineering and Technology

- **Dean:** Saeed Moaveni
- **Office:** CS 720c
- **Telephone:** 801-863-8237
- **E-mail:** Saeed.Moaveni@uvu.edu

Cybersecurity Graduate Programs

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- **Program Director:** Robert Jorgensen
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Utah Valley University offers post-baccalaureate programs in Cybersecurity for students who wish to complete advanced studies in the field of cybersecurity. These programs are designed to provide students with advanced technical and managerial knowledge of cybersecurity, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cybersecurity theory with hands-on education for essential applied cybersecurity techniques and tools.

Cybersecurity Graduate Certificate

The Cybersecurity Graduate Certificate program consists of 18 credits of graduate-level courses. The curriculum includes cybersecurity operations, advanced network defense, cybersecurity management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cybersecurity.

Master of Science in Cybersecurity

The Master of Science in Cybersecurity builds on the curriculum for the Cybersecurity Graduate Certificate and includes 12 additional credits including topics, such as advanced penetration testing, reverse engineering, and advanced network forensics. The program culminates with a capstone project where students showcase their skills and abilities.

Admission Requirements

Graduate Studies

Potential students must apply for admission into these programs. To be accepted, students must have completed a Bachelor's degree, preferably in Information Systems, Information Security, Information Technology, or Computer Science. However, applicants who have a Bachelor's degree in another field may be admitted to the programs if they also have at least two years of IT or cybersecurity industry experience and have completed undergraduate courses in data communication, programming, and servers.

Cybersecurity Advisory Board

- Dan Anderson, Consultant, Spectra
- Vance Checketts, High-Tech COO, Dell EMC2
- David Glod, VP of Information Security, Mountain America Credit Union
- Gary Glover, Director of Security Assessments, SecurityMetrics, Inc.
- Steve Leyba, Service Area Director, Department of Workforce Services
- Angela Madsen, Operations Manager, Department of Workforce Services
- Robert Schroader, President, CEO, Paraben Corporation
- Justin Searle, Managing Partner, UtiliSec

Tuition Tables

[Graduate Certificate in Cybersecurity](#)
[Master of Science in Cybersecurity](#)

Cybersecurity, Graduate Certificate	18 Credits
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The Graduate Certificate in Cybersecurity at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cybersecurity. This program is designed to provide students with advanced technical and managerial knowledge of cybersecurity, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cybersecurity theory with hands-on education for essential applied cybersecurity techniques and tools. The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cybersecurity operations, advanced network defense, cybersecurity management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cybersecurity.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.

Total Program Credits: 18

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Application for admission to the program. 2. Bachelor's degree required, preferably in Information Systems, Information Security, Information Technology, or Computer Science. 3. 2 years of IT or IT security industry experience (if Bachelor's degree in non-related field). 4. Completion of undergraduate courses in data communication, programming, and servers. 			
Discipline Core Requirements:			12 Credits
	IT 6300	Principles of Cybersecurity	3
	IT 6330	Cybersecurity Operations	3
	IT 6350	Law, Ethics, and Privacy in Cybersecurity	3
	IT 6370	Penetration Testing and Vulnerability Assessment	3
Elective Requirements:			6 Credits
Choose 6 credits from the following:			6
	IT 6660	Advanced Network Forensics (3.0)	
	IT 6740	Advanced Network Defense and Countermeasures (3.0)	
	IT 6760	Case Studies in Cybersecurity (3.0)	
	IT 6770	Cybersecurity Management (3.0)	
	IT 6780	Secure Coding (3.0)	
	or other departmental approved electives		

Graduation Requirements:

1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>IT 6300</i>	Principles of Cybersecurity	3
IT 6330	Cybersecurity Operations	3
	Semester total:	6
Semester 2	Course Title	Credit Hours
IT 6350	Law, Ethics, and Privacy in Cybersecurity	3
IT 6740	Advanced Network Defense and Countermeasures	3
	Semester total:	6
Notes: IT 6740 is an elective. Not all electives will be offered 2016-2017.		
Semester 3	Course Title	Credit Hours
IT 6370	Penetration Testing and Vulnerability Assessment	3
Elective		3
	Semester total:	6
Notes: Elective offered will depend on demand. IT 6660, IT 6760, IT 6770, or IT 6780.		
	Degree total:	18

Careers:	
Cybersecurity is a critical part of our digitally connected lives. From the public sector to private industry, organizations are seeking cybersecurity professionals to protect their critical data. In addition to cybersecurity specialists, there is a demand for other technology and business leaders to have a solid understand of the principles and application of cybersecurity.	

Cybersecurity, Master of Science	30 Credits
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The Master of Science in Cybersecurity is intended for individuals who desire to acquire additional cybersecurity knowledge, skills, and abilities in order to pursue new or advance existing careers in cybersecurity. The program is also designed for individuals who plan to pursue doctorate degrees in cybersecurity or related fields. The program focuses on the managerial and technical perspectives of cybersecurity through extensive use of case-studies and hands-on lab exercises.

Total Program Credits: 30

Matriculation Requirements:			
<ol style="list-style-type: none"> Bachelor's degree with a GPA of at least 3.2 on a 4.0 scale from an accredited institution in one of the following fields*: Information Systems, Information Security, Information Technology, Computer Science. Admissions essay. Completed application for admission. Official transcripts from all attended institutions of higher education. Two letters of recommendation 			
Discipline Core Requirements:		21 Credits	
	<i>IT 6300</i>	Principles of Cybersecurity	3
	<i>IT 6330</i>	Cybersecurity Operations	3
	<i>IT 6350</i>	Law/Ethics/Privacy in Cybersecurity	3
	<i>IT 6370</i>	Penetration Testing and Vulnerability Assessment	3
	<i>IT 6740</i>	Advanced Network Defense and Countermeasures	3
	<i>IT 6770</i>	Cybersecurity Management	3

Graduate Studies

	IT 6900	Cybersecurity Capstone	3
Elective Requirements:			9 Credits
Choose 9 credits from the following:			9
	IT 6660	Advanced Network Forensics (3.0)	
	IT 6750	Reverse Engineering and Malware Analysis (3.0)	
	IT 6780	Secure Coding (3.0)	
	INFO 6420	Web and Mobile Application Security (3.0)	
	or other departmental approved electives		

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher. Courses must be finished within a five-year period. No courses will apply toward graduation that are older than five years.
2. Courses must be finished within a five-year period. No courses will apply toward graduation that are older than five years.

Footnote: *Applicants who have bachelor's degrees in other fields may be admitted to the program if they have at least two years of technology or cybersecurity industry experience and have completed undergraduate courses in data communication, programming, and server administration with a grade of C+ or better. Students may also take a comprehensive exam on these topics to satisfy this admission requirement. These applications will be handled on a case-by-case basis.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and Italicized.

Semester 1	Course Title	Credit Hours
<i>IT 6300</i>	Principles of Cybersecurity	3
<i>IT 6330</i>	Cybersecurity Operations	3
	Semester total:	6
Semester 2	Course Title	Credit Hours
<i>IT 6740</i>	Advanced Network Defense and Countermeasures	3
<i>IT 6350</i>	Law/Ethics/Privacy in Cybersecurity	3
	Semester total:	6
Semester 3	Course Title	Credit Hours
<i>IT 6370</i>	Penetration Testing and Vulnerability Assessment	3
	Semester total:	3
Semester 4	Course Title	Credit Hours
<i>IT 6770</i>	Cybersecurity Management	3
Elective		3
	Semester total:	6
Semester 5	Course Title	Credit Hours
Elective		3
Elective		3
	Semester total:	6
Semester 6	Course Title	Credit Hours
IT 6900	Cybersecurity Capstone	3
	Semester total:	3

Degree total:	30
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Careers:	
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Cybersecurity is a critical part of our digitally connected lives. From the public sector to private industry, organizations are seeking cybersecurity professionals to protect their critical data. In addition to cybersecurity specialists, there is a demand for other technology and business leaders to have a solid understand of the principles and application of cybersecurity.

2018-19 Master of Science in Cybersecurity--Tuition and Fee Schedule

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
1	\$406	\$35	\$441	1	\$986	\$35	\$1,021
2	\$812	\$70	\$882	2	\$1,972	\$70	\$2,042
3	\$1,218	\$105	\$1,323	3	\$2,958	\$105	\$3,063
4	\$1,624	\$140	\$1,764	4	\$3,944	\$140	\$4,084
5	\$2,030	\$175	\$2,205	5	\$4,930	\$175	\$5,105
6	\$2,436	\$210	\$2,646	6	\$5,916	\$210	\$6,126
7	\$2,842	\$245	\$3,087	7	\$6,902	\$245	\$7,147
8	\$3,248	\$280	\$3,528	8	\$7,888	\$280	\$8,168
9	\$3,654	\$315	\$3,969	9	\$8,874	\$315	\$9,189
10	\$4,060	\$350	\$4,410	10	\$9,860	\$350	\$10,210
11	\$4,466	\$350	\$4,816	11	\$10,846	\$350	\$11,196
12	\$4,872	\$350	\$5,222	12	\$11,832	\$350	\$12,182
13	\$5,278	\$350	\$5,628	13	\$12,818	\$350	\$13,168
14	\$5,684	\$350	\$6,034	14	\$13,804	\$350	\$14,154
15	\$6,090	\$350	\$6,440	15	\$14,790	\$350	\$15,140
16	\$6,496	\$350	\$6,846	16	\$15,776	\$350	\$16,126
17	\$6,902	\$350	\$7,252	17	\$16,762	\$350	\$17,112
18	\$7,308	\$350	\$7,658	18	\$17,748	\$350	\$18,098
19	\$7,714	\$350	\$8,064	19	\$18,734	\$350	\$19,084
20	\$8,120	\$350	\$8,470	20	\$19,720	\$350	\$20,070

2018-19 Base Graduate-Tuition and General Fee Schedule

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00
2.0	566.00	70.00	636.00	2.0	1,726.00	70.00	1,796.00
2.5	707.50	87.50	795.00	2.5	2,157.50	87.50	2,245.00
3.0	849.00	105.00	954.00	3.0	2,589.00	105.00	2,694.00
3.5	990.50	122.50	1,113.00	3.5	3,020.50	122.50	3,143.00
4.0	1,132.00	140.00	1,272.00	4.0	3,452.00	140.00	3,592.00
4.5	1,273.50	157.50	1,431.00	4.5	3,883.50	157.50	4,041.00
5.0	1,415.00	175.00	1,590.00	5.0	4,315.00	175.00	4,490.00
5.5	1,556.50	192.50	1,749.00	5.5	4,746.50	192.50	4,939.00
6.0	1,698.00	210.00	1,908.00	6.0	5,178.00	210.00	5,388.00

Graduate Studies

6.5	1,839.50	227.50	2,067.00		6.5	5,609.50	227.50	5,837.00
7.0	1,981.00	245.00	2,226.00		7.0	6,041.00	245.00	6,286.00
7.5	2,122.50	262.50	2,385.00		7.5	6,472.50	262.50	6,735.00
8.0	2,264.00	280.00	2,544.00		8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00		8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00		9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00		9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00		10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50		10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00		11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50		11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00		12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50		12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00		13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50		13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00		14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50		14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00		15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50		15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00		16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50		16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00		17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50		17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00		18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50		18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00		19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50		19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00		20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50		20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00		21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50		21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00		22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50		22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00		23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50		23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00		24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50		24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00		25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

Woodbury School of Business

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Master of Accountancy

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-

Program Description

Utah Valley University offers a Master of Accountancy (MAcc) program that can be completed in one year going full time. Students are also able to go part-time and complete the degree in two years. The MAcc degree prepares students for professional positions in accounting with potential for advancement throughout their career. It qualifies students for entry-level positions in public accounting, industry, government, and not-for-profit organizations. The MAcc qualifies students to sit for the Uniform CPA Examinations in the State of Utah, a necessary step in becoming a Certified Public Accountant (CPA). It also provides a base to pursue related certifications as Certified Internal Auditor (CIA), Certified Management Accountant (CMA), and Certified Fraud Examiner (CFE). Ultimately, a MAcc can lead to a wide variety of significant leadership positions in accounting and business including CFO and CEO.

The MAcc “prepares professionally competent people” by meeting the minimum education required to become a CPA and “promotes student success” by qualifying students to seek professional level positions in accounting. Educational expectations of accounting professionals have increased and the MAcc degree will make UVU students more competitive for entry level positions and improve upward mobility throughout their career. The MAcc program at UVU meets local and regional needs. It is a professional degree which promotes student success and lifelong learning. Economic development is enhanced by providing needed accounting talent. MAcc graduates are a source of leadership talent for business, government, and not-for-profit entities.

Prerequisites

Applicants are expected to meet the following minimum criteria:

- bachelor's degree from a regionally accredited institution or the equivalent for international students.
- minimum overall undergraduate GPA of 3.0.
- minimum GPA of 3.0 in upper-division accounting courses.
- completion of the GMAT exam with scores acceptable to the admissions committee.
- foreign students must complete the Test Of English as a Foreign Language (TOEFL).

Prerequisite Courses (or equivalent classes) from Undergraduate Studies:

ACCT 2010 Financial Accounting
 ACCT 2020 Managerial Accounting
 ACCT 3010 Intermediate I
 ACCT 3020 Intermediate II
 ACC 3300 Cost Management
 ACC 3510 Accounting Information Systems
 ACC 3400 Individual Income Tax
 ACC 4110 Auditing

Application Process

Baccalaureate degree holders with both business and non-business majors may apply. Deadlines and current application requirements are posted on the website, www.uvu.edu/macc. Applicants must submit all of the following to the Woodbury School of Business:

1. Completed application online, www.uvu.edu/admissions
2. Remit a nonrefundable \$45 fee by check or money order (payable to UVU).
3. Forward all official university transcripts.
4. Respond to the one admission essay questions.
5. Submit a current resume that includes educational background and professional work experience.
6. Provide two letters of recommendation. Recommenders can send letters of recommendation or complete electronic evaluation forms.

Send official GMAT test scores. GMAT registration is available at www.mba.com. Submit TOEFL scores with a minimum of 79 for the Internet-based test (This is only for applicants for whom English is a second language and who have not earned a degree in the U.S.)

1. Student interviews may also be requested at the discretion of the student selection committee.

Reapplication

If an applicant is not admitted, he/she may reapply again at a later time. All current admission requirements at the time of application must be met.

Satisfactory Progress

Continuation in the Master of Accountancy program is determined by: (1) satisfactory progress (C or higher) in all courses (completed courses with a grade lower than a C must be repeated) and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Graduate Studies

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than C; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Business Administration program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to the Master of Accountancy program is a requirement for enrollment into all Master of Accountancy courses.

2018-19 Master of Accountancy--Tuition and Fee Schedule								
Resident					Non-Resident			
Credit Hours	Tuition	Fees	Total		Credit Hours	Tuition	Fees	Total
1	\$501	\$35	\$536		1	\$1,217	\$35	\$1,252
2	\$1,002	\$70	\$1,072		2	\$2,434	\$70	\$2,504
3	\$1,503	\$105	\$1,608		3	\$3,651	\$105	\$3,756
4	\$2,004	\$140	\$2,144		4	\$4,868	\$140	\$5,008
5	\$2,505	\$175	\$2,680		5	\$6,085	\$175	\$6,260
6	\$3,006	\$210	\$3,216		6	\$7,302	\$210	\$7,512
7	\$3,507	\$245	\$3,752		7	\$8,519	\$245	\$8,764
8	\$4,008	\$280	\$4,288		8	\$9,736	\$280	\$10,016
9	\$4,509	\$315	\$4,824		9	\$10,953	\$315	\$11,268
10	\$5,010	\$350	\$5,360		10	\$12,170	\$350	\$12,520
11	\$5,511	\$350	\$5,861		11	\$13,387	\$350	\$13,737
12	\$6,012	\$350	\$6,362		12	\$14,604	\$350	\$14,954
13	\$6,513	\$350	\$6,863		13	\$15,821	\$350	\$16,171
14	\$7,014	\$350	\$7,364		14	\$17,038	\$350	\$17,388
15	\$7,515	\$350	\$7,865		15	\$18,255	\$350	\$18,605
16	\$8,016	\$350	\$8,366		16	\$19,472	\$350	\$19,822
17	\$8,517	\$350	\$8,867		17	\$20,689	\$350	\$21,039
18	\$9,018	\$350	\$9,368		18	\$21,906	\$350	\$22,256
19	\$9,519	\$350	\$9,869		19	\$23,123	\$350	\$23,473
20	\$10,020	\$350	\$10,370		20	\$24,340	\$350	\$24,690

Master of Accountancy, M.Acc	30 Credits
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The Master of Accountancy (MAcc) degree prepares students for professional positions in accounting with the potential for advancement throughout their career. Building upon an undergraduate education in accounting and business it qualifies students for entry-level positions in public accounting, industry, government, and not-for-profit organizations. The MAcc qualifies students to sit for the Uniform CPA Examinations in the State of Utah which is a necessary step in becoming a Certified Public Accountant (CPA). It also provides a base from which students may pursue related certifications such as Certified Internal Auditor (CIA), Certified Management Accountant (CMA), and Certified Fraud Examiner (CFE). Combined with appropriate experience the MAcc can lead to a wide variety of significant leadership positions in accounting and business including Chief Financial Officer (CFO) and Chief Executive Officer (CEO).

Matriculation Requirements:		
1. Admission to Woodbury School of Business Master of Accountancy program.		
Discipline Core Requirements:		18 Credits
MGMT 6215	Managing and Facilitating Professional Teams	3

ACC 6350	Accounting Strategies for Achieving Profit Goals	3
ACC 6510	Financial Auditing	3
ACC 6560	Accounting Theory and Research	3
ACC 6060	Professionalism and Leadership	3
ACC 6420	Principles of Corporate Tax	3
Elective Requirements:		12 Credits
Select 12 semester credits from the following courses:		12
ACC 6130	Case Studies in Auditing (3.0)	
ACC 6140	Fraud Examination and Forensic Accounting (3.0)	
ACC 6150	Information Systems Auditing (3.0)	
ACC 6410	Tax Research and Procedure (3.0)	
ACC 6440	Partnership Tax (3.0)	
ACC 6460	Estate and Gift Tax (3.0)	
ACC 6430	Advanced Corporate Tax (3.0)	
ACC 6600	Business Regulation (3.0)	
ACC 6610	Financial Statement Analysis (3.0)	

Graduation Requirements:

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 3.0 or above in Master of Accountancy courses.
3. A grade of C or higher required for all courses used to satisfy graduation requirement.
4. If a similar course was taken at the undergraduate level, the graduate course cannot be used to meet the graduation requirement.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
ACC 6420	Corporate Tax	3
ACC 6510	Financial Auditing	3
ACC 6140 or ACC 6410	Fraud Examination and Forensic Accounting or Tax Research and Procedure	3
ACC 6130 or ACC 6440	Case Studies in Auditing or Partnership Taxation	3
	Semester total:	12
Semester 2	Course Title	Credit Hours
ACC 6350	Accounting Strategies for Achieving Profit Goals	3
ACC 6215	Managing Teams	3
ACC 6150 or ACC 6460	Information Systems Auditing or Estate and Gift Tax	3
ACC 6430 or ACC 6610	Advanced Corporate Tax or Financial Statement Analysis	3
	Semester total:	12
Semester 3	Course Title	Credit Hours
ACC 6560	Accounting Theory and Research	3
ACC 6060	Professionalism and Leadership	3
	Semester total:	6
	Degree total:	30

Graduate Studies

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Master of Education

Program Description

The Master of Education (M.Ed.) degree at Utah Valley University is an applied master's degree aimed at building the instructional skill and professional competency of teachers. The goal is to enable participants to become more proficient in selecting optimum, research-based, curriculum design strategies that best apply to specific teaching situations.

There are currently seven emphases in the Master of Education Degree:

- Applied Behavioral Analysis
- Educational Technology
- Elementary Mathematics
- Elementary STEM
- English as a Second Language (ESL)
- Higher Education Leadership
- Reading I
- Secondary Teaching
- Teacher Leadership

The M.Ed. requires 30-33 semester hours of graduate course work and completion of a culminating applied instructional project tailored to the particular interests of program participants. Participants enter the M.Ed. program in cohorts and progress through the degree program in a group. While the culminating applied instructional project is unique to each student, some course work and many class activities are done in collaboration with fellow students.

Graduate Certificate in Secondary Teaching

The Graduate Certificate in Secondary Teaching is designed for individuals who would like to receive a Utah Secondary Teaching License, and have earned a bachelor's degree in one of the teaching major subject areas for secondary education approved by the Utah State Board of Education. This program will include the basic coursework and field experiences required of all teacher candidates for an initial teaching license, ensuring that competencies in both subject knowledge and pedagogy are met.

Admission & Retention

Application to the Program

Applicants should complete an online graduate application by following the application link on the UVU Web site and follow all instructions for graduate application and admission. Applications and application fees must be received by March 31 for consideration for summer semester. Students in the M.Ed. program begin with full-time coursework in the summers and part-time enrollment in the fall and spring semesters.

Required support materials received after the application deadline will delay processing of the application. The School of Education Graduate Screening Committee reviews applications and schedules interviews for applicants meeting minimum admission requirements. The Director of Graduate Studies for the School of Education notifies all applicants in writing of the admission decision. The University cannot guarantee a response on or before a specific date. All admission materials become the property of UVU and will not be returned to the applicant.

Reapplication

If an applicant is not admitted, s/he may reapply. All current admission requirements at the time of application must be met in order to be fully admitted to the program.

Satisfactory Progress

Continuation in the Master of Education program is determined by: (1) satisfactory progress (B- or higher) in all courses and (2) faculty committee chair and the graduate admission and retention committee recommendation.

Academic Probation

A student can be recommended for academic probation for the following reason(s): (1) Failure to meet the scholarship requirements of the Graduate Program of an overall GPA of 3.00 (on a 4.00 scale) or higher, with no individual course grade lower than B-; (2) Failure to complete prescribed courses; and/or (3) Failure to adhere to University student rights and responsibilities standards.

Dismissal from the Program

A student can be dismissed from the Master of Education program for the following reason(s):

1. Academic dishonesty;
2. Continued failure to meet academic standards; and/or
3. Continued failure to adhere to University student rights and responsibilities standards.

Courses

Admission to graduate programs or permission of the Dean of the School of Education is required for enrollment in the Master of Education and Graduate Certificate courses.

2018-19 Base Graduate-Tuition and General Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00	
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00	
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00	
2.0	566.00	70.00	636.00	2.0	1,726.00	70.00	1,796.00	
2.5	707.50	87.50	795.00	2.5	2,157.50	87.50	2,245.00	
3.0	849.00	105.00	954.00	3.0	2,589.00	105.00	2,694.00	
3.5	990.50	122.50	1,113.00	3.5	3,020.50	122.50	3,143.00	
4.0	1,132.00	140.00	1,272.00	4.0	3,452.00	140.00	3,592.00	
4.5	1,273.50	157.50	1,431.00	4.5	3,883.50	157.50	4,041.00	
5.0	1,415.00	175.00	1,590.00	5.0	4,315.00	175.00	4,490.00	
5.5	1,556.50	192.50	1,749.00	5.5	4,746.50	192.50	4,939.00	
6.0	1,698.00	210.00	1,908.00	6.0	5,178.00	210.00	5,388.00	
6.5	1,839.50	227.50	2,067.00	6.5	5,609.50	227.50	5,837.00	
7.0	1,981.00	245.00	2,226.00	7.0	6,041.00	245.00	6,286.00	
7.5	2,122.50	262.50	2,385.00	7.5	6,472.50	262.50	6,735.00	
8.0	2,264.00	280.00	2,544.00	8.0	6,904.00	280.00	7,184.00	
8.5	2,405.50	297.50	2,703.00	8.5	7,335.50	297.50	7,633.00	
9.0	2,547.00	315.00	2,862.00	9.0	7,767.00	315.00	8,082.00	

Graduate Studies

9.5	2,688.50	332.50	3,021.00		9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00		10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50		10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00		11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50		11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00		12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50		12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00		13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50		13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00		14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50		14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00		15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50		15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00		16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50		16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00		17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50		17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00		18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50		18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00		19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50		19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00		20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50		20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00		21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50		21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00		22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50		22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00		23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50		23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00		24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50		24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00		25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

Dual Language Immersion, Endorsement	15 Credits
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The Dual Language Immersion (DLI) Endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of dual language immersion (DLI) learners and to become advocates for DLI in a variety of educational settings. Coursework is designed to address historical and political foundations of DLI education and methods and materials for engaging DLI students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in dual language immersion education. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Discipline Core Requirements:			15 Credits
	EDUC 5700	Foundations of Dual Language Immersion Education	3
	EDUC 5300	Content-based Curriculum, Instruction, and Assessment	3
	EDUC 5380	Second Language Literacy Development for Practitioners	3

	EDUC 5340	Methods of Second Language Acquisition for Practitioners	3
	EDUC 5710	Instructional Strategies, Curriculum, and Classroom Management for the Elementary Classroom (For Secondary Teachers)	3
or	EDUC 5350	Theories of Second Language Acquisition for Practitioners (For Elementary Teachers) (3.0)	

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Suggested course sequence:	Course Title	Credit Hours
EDUC 5700	Foundation of Dual language Immersion Education	3
EDUC 5710	Instructional Strategies and Classroom Management for the Elementary Classroom	3
EDUC 5300	Content-based Curriculum, Instruction and Assessment	3
EDUC 5380	Second Language Literacy Development	3
EDUC 5340	Methods of Second Language Acquisition	3
EDUC 5350	Theories of Second Language Acquisition	3
Notes: This is a 15 credit endorsement. Students will take either EDUC 5710 or EDUC 5350, but are not required to take both.		
	Degree total:	15

Careers:
While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Program options in English as a Second Language, Educational Technology, Elementary Mathematics, and Reading I will also qualify students to apply for an endorsement to their current Utah Teaching Certificate.

Educational Technology, Endorsement	18 Credits
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The Educational Technology endorsement program emphasizes coursework that prepares classroom teachers to incorporate the latest technological tools into effective instructional practice. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Discipline Core Requirements:		18 Credits
	EDUC 5800 Cognition, Education and Technology for Practitioners (3.0)	
or	EDUC 6080 Cognition, Education and Technology	3
	EDUC 5810 Instruction, Curriculum & Educational Leadership in the Digital Age for Practitioners (3.0)	
or	EDUC 6081 Instruction, Curriculum and Educational Leadership in the Digital Age	3
	EDUC 5820 Designing and Producing Media for Instruction for Practitioners (3.0)	
or	EDUC 6082 Designing and Producing Media for Instruction	3
	EDUC 5830 Digital Models of Instruction for Practitioners (3.0)	
or	EDUC 6083 Digital Models of Instruction	3
	EDUC 5840 Universal Design for Learning for Practitioners (3.0)	
or	EDUC 6084 Universal Design for Learning	3
	EDUC 5850 Digital Course Design Capstone for Practitioners (3.0)	

Graduate Studies

or	EDUC 6085	Digital Course Design Capstone	3
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Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Suggested sequence of courses:	Course Title	Credit Hours
EDUC 5800	Cognition, Education and Technology for Practitioners	3
or EDUC 6080	Cognition, Education, and Technology (3.0)	
EDUC 5810	Instruction, Curriculum & Educational Leadership in the Digital Age for Practitioners	3
or EDUC 6081	Instruction, Curriculum & Educational Leadership in the Digital Age (3.0)	
EDUC 5820	Designing and Producing Media for Instruction for Practitioners	3
or EDUC 6082	Designing and Producing Media for Instruction (3.0)	
EDUC 5830	Digital Models of Instruction for Practitioners	3
or EDUC 6083	Digital Models of Instruction (3.0)	
EDUC 5840	Universal Design for Learning for Practitioners	3
or EDUC 6084	Universal Design for Learning (3.0)	
EDUC 5850	Digital Course Design Capstone for Practitioners	3
or EDUC 6085	Digital Course Design Capstone (3.0)	
	Degree total:	18

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Elementary Mathematics, Endorsement	18 Credits
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The Elementary Mathematics program emphasizes coursework that better prepares teachers in the elementary classroom in mathematical content and pedagogy, including courses in six key areas of mathematics. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Discipline Core Requirements:			18 Credits
	EDUC 5500	Teaching K-8 Numbers and Operations for Practitioners	3
or	EDUC 6500	Teaching K-8 Numbers and Operations (3.0)	
	EDUC 5510	Teaching K-8 Rational Numbers and Proportional Reasoning for Practitioners	3
or	EDUC 6510	Teaching K-8 Rational Numbers and Proportional Reasoning (3.0)	
	EDUC 5520	Teaching K-8 Algebraic Reasoning for Practitioners	3
or	EDUC 6520	Teaching K-8 Algebraic Reasoning (3.0)	
	EDUC 5530	Teaching K-8 Geometry and Measurement for Practitioners	3
or	EDUC 6530	Teaching K-8 Geometry and Measurement (3.0)	

	EDUC 5540	Teaching K-8 Data Analysis and Problem Solving for Practitioners	3
or	EDUC 6540	Teaching K-8 Data Analysis and Problem Solving (3.0)	
	EDUC 5550	Teaching K-8 Assessment and Intervention for Practitioners	3
or	EDUC 6550	Teaching K-8 Assessment and Intervention (3.0)	

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Suggested sequence of courses	Course Title	Credit Hours
EDUC 5500	Teaching K-8 Numbers & Operations for Practitioners	3
EDUC 5510	Teaching K-8 Rational Numbers and Proportional Reasoning for Practitioners	3
EDUC 5520	Teaching K-8 Algebraic Reasoning for Practitioners	3
EDUC 5530	Teaching K-8 Geometry and Measurement for Practitioners	3
EDUC 5540	Teaching K-8 Data Analysis and Problem Solving for Practitioners	3
EDUC 5550	Teaching K-8 Data Analysis and Problem Solving for Practitioners	3
	Degree total:	18

Careers:
 While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Elementary STEM, Endorsement	18 Credits
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The Utah Valley University endorsement program for Elementary Science, Technology, Engineering, and Mathematics (STEM) is geared to providing professional development and best practices for practicing teachers in grades K-8. The goal of this program is to enhance educators' understandings of key concepts in STEM areas so that they may better serve the needs of their students in the 21st century.

Discipline Core Requirements:		18 Credits
	EDUC 5750 Energy in STEM for Elementary Teachers	3
or	EDUC 6750 Energy in Elementary STEM Education (3.0)	
	EDUC 5760 Force in STEM for Elementary Teachers	3
or	EDUC 6760 Force in Elementary STEM Education (3.0)	
	EDUC 5770 Matter in STEM for Elementary Teachers	3
or	EDUC 6770 Matter in Elementary STEM Education (3.0)	
	EDUC 5780 Nature of Science and Engineering	3
or	EDUC 6780 Science and Engineering in Elementary STEM Education (3.0)	
	EDUC 5790 STEM Practices with a Focus on Technology and Problem-Based Learning	3
or	EDUC 6790 Technology and Problem-Based Learning in Elementary STEM Education (3.0)	
	EDUC 5540 Teaching K-8 Data Analysis and Problem Solving for Practitioners (3.0)	
or	EDUC 6540 Teaching K-8 Data Analysis and Problem Solving (3.0)	

Graduate Studies

Graduation Plan:

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This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Suggested sequence of courses:	Course Title	Credit Hours
EDUC 5750	Energy in STEM for Elementary Teachers	3
EDUC 5760	Force in STEM for Elementary Teachers	3
EDUC 5770	Matter in STEM for Elementary Teachers	3
EDUC 5780	Nature of Science and Engineering	3
EDUC 5790	STEM Practices with a Focus on Technology and Problem-Based Learning	3
EDUC 5540	Teaching K-8 Data Analysis and Problem Solving for Practitioners	3
	Degree total:	18

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

English as Second Language, Endorsement	18 Credits
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The English as a Second Language program emphasizes coursework that aids teachers in becoming better skilled at meeting the needs of English language learners in the K-12 classroom, and better prepared to understand the many cultural and community influences that may influence student learning. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Discipline Core Requirements:			18 Credits
	EDUC 5340	Methods of Second Language Acquisition for Practitioners	3
or	EDUC 6340	English as a Second Language Methods (3.0)	
	EDUC 5350	Theories of Second Language Acquisition for Practitioners	3
or	EDUC 6350	Theories of Second Language Acquisition (3.0)	
	EDUC 5360	Multicultural Education for Practitioners	3
or	EDUC 6360	Multicultural Education (3.0)	
	EDUC 5370	Assessment for Second Language Learners for Practitioners	3
or	EDUC 6370	Assessment of Second Language Learners (3.0)	
	EDUC 5380	Second Language Literacy Development for Practitioners	3
or	EDUC 6380	Literacy and Linguistics in English as a Second Language (3.0)	
	EDUC 5390	Family and Community Involvement for Practitioners	3
or	EDUC 6390	Family and Community Involvement (3.0)	

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Suggested course sequence:	Course Title	Credit Hours
EDUC 5350	Theories of Second Language Acquisition for Practitioners	3
EDUC 5360	Multicultural Education for Practitioners	3
EDUC 5340	Methods of Second Language Instruction for Practitioners	3
EDUC 5370	Assessment of Second Language Learners for Practitioners	3
EDUC 5380	Literacy and Linguistics in Second Language Learning for Practitioners	3
EDUC 5390	Family and Community Involvement for Practitioners	3
	Degree total:	18

Careers:
While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Gifted and Talented, Endorsement	19 Credits
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The Utah Valley University Gifted and Talented endorsement program is designed to prepare teachers to be sensitive and responsive to the needs of gifted and talented (GT) learners and to become advocates for their students in a variety of educational settings, whether they become teachers in Gifted and Talented programs or teachers who work with these learners in the mainstream classroom setting. Coursework is designed to address historical and political foundations of GT education, the social and emotional needs of these learners, and methods and materials for engaging GT students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of content, pedagogy, and cultural perspectives in gifted and talented education.

Discipline Core Requirements:		19 Credits
EDUC 5600	Education of the Gifted and Talented	3
EDUC 5610	Social and Emotional Needs of the Gifted	3
EDUC 5620	Identification/Evaluation in Gifted Education	3
EDUC 5630	Theory into Practice in Gifted and Talented Education	2
EDUC 5635	Methods and Materials in Gifted Education for Practitioners	2
EDUC 5640	Improvement of Curriculum Instruction in the Content Areas	3
EDUC 5650	Leadership in Gifted and Talented Education	

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Suggested sequence:	Course Title	Credit Hours
EDUC 5600	Education of the Gifted and Talented	3
EDUC 5610	Social and Emotional Needs of the Gifted	3
EDUC 5620	Identification and Evaluation in Gifted Education	3
EDUC 5630	Theory into Practice in Gifted and Talented Education	2
EDUC 5635	Methods and Materials in Gifted Education for Practitioners	2
EDUC 5640	Improvement of Curriculum Instruction in the Content Areas	3
EDUC 5650	Leadership in Gifted and Talented Education	3
	Degree total:	19

Graduate Studies

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in Gifted and Talented programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Master of Education - Applied Behavioral Analysis Emphasis, M.Ed.

30 Credits

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:

12 Credits

EDUC 6100	ABA Concepts and Principles	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1

Emphasis Requirements:

18 Credits

Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.

EDUC 6010	ABA Concepts and Principles	3
EDUC 6020	Ethics and Professional Competencies in Applied Behavioral Analysis	3
EDUC 6030	Developing and Changing Behaviors	3
EDUC 6040	Measurement in Single Subject Design	3
EDUC 6050	Functional Behavior Assessment and Treatment	3
EDUC 6060	Advanced Topics in Applied Behavior Analysis	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
EDUC 6100	Research Methodology	3
	Semester total:	3
Semester 2	Course Title	Credit Hours
EDUC 6010	ABA Concepts and Principles	3
EDUC 6020	Ethics and Professional Competencies in Applied Behavioral Analysis	3
	Semester total:	6
Semester 3	Course Title	Credit Hours
EDUC 6200	Master's Project (BCBA)	3
EDUC 6030	Developing and Changing Behaviors	3
	Semester total:	6
Semester 4	Course Title	Credit Hours
EDUC 6110	Applied Statistics for Education	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 5	Course Title	Credit Hours
EDUC 6040	Measurement in Single Subject Design	3
EDUC 6920	Project II	1
EDUC 6050	Functional Behavior Assessment and Treatment	3
	Semester total:	7
Semester 6	Course Title	Credit Hours
EDUC 6060	Advanced Topics in Applied Behavioral Analysis	3
EDUC 693R	Project III	1
	Semester total:	4
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Master of Education - Educational Technology Emphasis, M.Ed.

30 Credits

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.

Graduate Studies

6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:			12 Credits
EDUC 6100	Research Methodology		3
EDUC 6110	Applied Statistics for Education		3
EDUC 6200	Masters Project		3
EDUC 6910	Project I		1
EDUC 6920	Project II		1
EDUC 693R	Project III		1
Emphasis Requirements:			18 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.			
EDUC 6080	Cognition, Education, and Technology		3
EDUC 6081	Instruction, Curriculum and Educational Leadership in the Digital Age		3
EDUC 6082	Designing and Producing Media for Instruction		3
EDUC 6083	Digital Models of Instruction		3
EDUC 6084	Universal Design for Learning		3
EDUC 6085	Digital Course Design Capstone		3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
EDUC 6083	Digital Models of Instruction	3
EDUC 6100	Research Methodology	3
EDUC 6081	Instruction, Curriculum & Educational Leadership in the Digital Age	3
	Semester total:	9
Semester 2	Course Title	Credit Hours
EDUC 6200	Master's Project	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 3	Course Title	Credit Hours
EDUC 6084	Universal Design for Learning	3
EDUC 6920	Project II	1
	Semester total:	4
Semester 4	Course Title	Credit Hours
EDUC 6082	Designing and Producing Media for Instruction	3

EDUC 6110	Applied Statistics for Education	3
	Semester total:	6
Semester 5	Course Title	Credit Hours
EDUC 6080	Cognition, Education and Technology	3
	Semester total:	3
Semester 6	Course Title	Credit Hours
EDUC 6085	Digital Course Design Capstone	1
EDUC 693R	Project III	3
	Semester total:	4
	Degree total:	30

Semester 1	Course Title	Credit Hours
EDUC 6100	Research Methodology	3
	Semester total:	3
Semester 2	Course Title	Credit Hours
EDUC 6010	ABA Concepts and Principles	3
EDUC 6020	Ethics and Professional Competencies in Applied Behavioral Analysis	3
	Semester total:	6
Semester 3	Course Title	Credit Hours
EDUC 6200	Master's Project (BCBA)	3
EDUC 6030	Developing and Changing Behaviors	3
	Semester total:	6
Semester 4	Course Title	Credit Hours
EDUC 6110	Applied Statistics for Education	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 5	Course Title	Credit Hours
EDUC 6040	Measurement in Single Subject Design	3
EDUC 6920	Project II	1
EDUC 6050	Functional Behavior Assessment and Treatment	3
	Semester total:	7
Semester 6	Course Title	Credit Hours
EDUC 6060	Advanced Topics in Applied Behavioral Analysis	3
EDUC 693R	Project III	1
	Semester total:	4
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Graduate Studies

Master of Education - Elementary Mathematics Emphasis, M.Ed.	30 Credits
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The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Application for admission. 2. Bachelor degree from an accredited institution. 3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile. 4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit. 5. Interview with School of Education Graduate Committee. 6. Three professional letters of recommendation. 		
<p>Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.</p> <p>Preference will be given to practicing teachers who have access to an established classroom.</p>		
Discipline Core Requirements:		12 Credits
EDUC 6100	Research Methodology	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1
Emphasis Requirements:		18 Credits
<p>Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.</p>		
EDUC 6500	Teaching K-8 Numbers and Operations	3
EDUC 6510	Teaching K-8 Rational Numbers and Proportional Reasoning	3
EDUC 6520	Teaching K-8 Algebraic Reasoning	3
EDUC 6530	Teaching K-8 Geometry and Measurement	3
EDUC 6540	Teaching K-8 Data Analysis and Problem Solving	3
EDUC 6550	Teaching K-8 Assessment and Intervention	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
EDUC 6500	Teaching K-8 Numbers and Operations	3
EDUC 6100	Research Methodology	3
EDUC 6510	Teaching K-8 Rational Numbers and Proportional Reasoning	3
	Semester total:	9
Semester 2	Course Title	Credit Hours

EDUC 6200	Master's Project	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 3	Course Title	Credit Hours
EDUC 6520	Teaching K-8 Algebraic Reasoning	3
EDUC 6920	Project II	1
	Semester total:	4
Semester 4	Course Title	Credit Hours
EDUC 6540	Teaching K-8 Data Analysis and Problem Solving	3
EDUC 6110	Applied Statistics for Education	3
	Semester total:	6
Semester 5	Course Title	Credit Hours
EDUC 6530	Teaching K-8 Geometry and Measurement	3
	Semester total:	3
Semester 6	Course Title	Credit Hours
EDUC 6550	Teaching K-8 Assessment and Intervention	3
EDUC 693R	Project III	1
	Semester total:	4
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Master of Education - Elementary STEM Emphasis, M.Ed.	30 Credits
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The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:		12 Credits
EDUC 6100	Research Methodology	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3

Graduate Studies

	EDUC 6910	Project I	1
	EDUC 6920	Project II	1
	EDUC 693R	Project III	1
Emphasis Requirements:			18 Credits
Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.			
	EDUC 6540	Teaching K-8 Data Analysis and Problem Solving	3
	EDUC 6750	Energy in Elementary STEM Education	3
	EDUC 6760	Force in Elementary STEM Education	3
	EDUC 6770	Matter in Elementary STEM Education	3
	EDUC 6780	Science and Engineering in Elementary STEM Education	3
	EDUC 6790	Technology and Problem-Based Learning in Elementary STEM Education	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
	EDUC 6540	Teaching K-8 Data Analysis and Problem Solving
	EDUC 6100	Research Methodology
	EDUC 6780	Science and Engineering in Elementary STEM Education
	Semester total:	
		9
Semester 2	Course Title	Credit Hours
	EDUC 6200	Master's Project
	EDUC 6910	Project I
	Semester total:	
		4
Semester 3	Course Title	Credit Hours
	EDUC 6770	Matter in STEM for Elementary Teachers
	EDUC 6920	Project II
	Semester total:	
		4
Semester 4	Course Title	Credit Hours
	EDUC 6750	Energy in STEM for Elementary Teachers
	EDUC 6110	Applied Statistics for Education
	Semester total:	
		6
Semester 5	Course Title	Credit Hours
	EDUC 6540	Teaching K-8 Data Analysis and Problem Solving
	Semester total:	
		3
Semester 6	Course Title	Credit Hours

EDUC 6790	Technology and Problem-Based Learning in Elementary STEM Education	3
EDUC 693R	Project III	1
	Semester total:	4
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Master of Education - English as a Second Language Emphasis, M.Ed.	30 Credits
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The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:		12 Credits
EDUC 6100	Research Methodology	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1

Emphasis Requirements: 18 Credits

Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.

EDUC 6340	English as a Second Language Methods	3
EDUC 6350	Theories of Second Language Acquisition	3
EDUC 6360	Multicultural Education	3
EDUC 6370	Assessment of Second Language Learners	3
EDUC 6380	Literacy and Linguistics in English as a Second Language	3
EDUC 6390	Family and Community Involvement	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduate Studies

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
EDUC 6340	English as a Second Language Methods	3
EDUC 6100	Research Methodology	3
EDUC 6350	Theories of Second Language Acquisition	3
	Semester total:	9
Semester 2	Course Title	Credit Hours
EDUC 6200	Master's Project	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 3	Course Title	Credit Hours
EDUC 6360	Multicultural Education	3
EDUC 6920	Project II	1
	Semester total:	4
Semester 4	Course Title	Credit Hours
EDUC 6370	Assessment of Second Language Learners	3
EDUC 6110	Applied Statistics for Education	3
	Semester total:	6
Semester 5	Course Title	Credit Hours
EDUC 6380	Literacy and Linguistics in English as a Second Language	3
	Semester total:	3
Semester 6	Course Title	Credit Hours
EDUC 6390	Family and Community Involvement	3
EDUC 693R	Project III	1
	Semester total:	4
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Master of Education - Higher Education Leadership Emphasis, M.Ed.	30
	Credits

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. Application for admission. 2. Bachelor degree from an accredited institution. 3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile. 4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit. 5. Interview with School of Education Graduate Committee. 6. Three professional letters of recommendation. 		
<p>Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.</p> <p>Preference will be given to practicing teachers who have access to an established classroom.</p>		
Discipline Core Requirements:		12 Credits
EDUC 6100	Research Methodology	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1
Emphasis Requirements:		18 Credits
EDUC 6470	Foundations and Contexts of Higher Education	3
EDUC 6460	Student Success and Development	3
EDUC 6450	Planning-Budget-Organizational Effectiveness	3
EDUC 6440	Leadership in Higher Education	3
EDUC 6430	Law-Policy-Ethics in Higher Education	3
EDUC 6420	Diversity in Higher Education	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester	Course Title	Credit Hours
Semester 1		
	EDUC 6100	3
	EDUC 6470	3
	Semester total:	6
Semester 2		
	EDUC 6200	3
	EDUC 6420	3
	Semester total:	6
Semester 3		
	EDUC 6440	3
	EDUC 6460	3
	Semester total:	6
Semester 4		

Graduate Studies

EDUC 6110	Applied Statistics for Education	3
	Semester total:	3
Semester 5	Course Title	Credit Hours
EDUC 6430	Law, Policy, and Ethics in Higher Education	3
EDUC 6450	Planning, Budgeting, and Organizational Effectiveness	3
	Semester total:	6
Semester 6	Course Title	Credit Hours
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1
	Semester total:	3
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in Educational Technology, Elementary Mathematics, Elementary STEM, English as a Second Language, Higher Education Leadership, Reading 1, and Secondary Education options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Master of Education - Reading I Emphasis, M.Ed.

33 Credits

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:

12 Credits

	EDUC 6100	Research Methodology	3
	EDUC 6110	Applied Statistics for Education	3
	EDUC 6200	Masters Project	3
	EDUC 6910	Project I	1
	EDUC 6920	Project II	1
	EDUC 693R	Project III	1

Emphasis Requirements:

21 Credits

Students may transfer up to 12 credits from 5000 level courses taken in this area of study; however, 24 additional credits of master's level courses would be required. Please contact your advisor for more information.

	EDUC 6660	Reading Assessments and Instructional Interventions	3
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EDUC 6661	Literacy and Cognition of Reading	3
EDUC 6662	Early Literacy Instruction	3
EDUC 6663	Content Area Reading	3
EDUC 6664	Adolescent Literacy	3
EDUC 6665	Reading Comprehension Instruction	3
EDUC 6666	Effective Writing Instruction	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
EDUC 6660	Reading Assessments and Instructional Interventions	3
EDUC 6100	Research Methodology	3
EDUC 6661	Literacy and Cognition of Reading	3
	Semester total:	9
Semester 2	Course Title	Credit Hours
EDUC 6200	Master's Project	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 3	Course Title	Credit Hours
EDUC 6662	Early Literacy Instruction	3
EDUC 6920	Project II	1
	Semester total:	4
Semester 4	Course Title	Credit Hours
EDUC 6110	Applied Statistics for Education	3
EDUC 6663	Content Area Reading	3
EDUC 6664	Adolescent Literacy	3
	Semester total:	9
Semester 5	Course Title	Credit Hours
EDUC 6665	Reading Comprehension Instruction	3
	Semester total:	3
Semester 6	Course Title	Credit Hours
EDUC 6666	Effective Writing Instruction	3
EDUC 693R	Project III	1
	Semester total:	4
	Degree total:	33

Graduate Studies

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Master of Education - Secondary Teaching Emphasis, M.Ed.

30

Credits

The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:

12 Credits

EDUC 6100	Research Methodology	3
EDUC 6110	Applied Statistics for Education	3
EDUC 6200	Masters Project	3
EDUC 6910	Project I	1
EDUC 6920	Project II	1
EDUC 693R	Project III	1

Emphasis Requirements:

18 Credits

EDUC 6081	Instruction, Curriculum and Educational Leadership in the Digital Age	3
EDUC 6084	Universal Design for Learning	3
EDUC 6310	Assessing Educational Practices	3
EDUC 6320	21st Century Teaching and Learning	3
EDUC 6330	Diversity and Differentiation in the Classroom	3
EDUC 6663	Content Area Reading	3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
EDUC 6081	Instruction, Curriculum & Educational Leadership in the Digital Age	3

EDUC 6084	Universal Design for Learning	3
EDUC 6100	Research Methodology	3
	Semester total:	9
Semester 2	Course Title	Credit Hours
EDUC 6200	Master's Project	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 3	Course Title	Credit Hours
EDUC 6310	Assessing Educational Practices	3
EDUC 6920	Project II	1
	Semester total:	4
Semester 4	Course Title	Credit Hours
EDUC 6320	21st Century Teaching and Learning	3
EDUC 6110	Applied Statistics for Education	3
	Semester total:	6
Semester 5	Course Title	Credit Hours
EDUC 6330	Diversity and Differentiation in the Classroom	3
	Semester total:	3
Semester 6	Course Title	Credit Hours
EDUC 6663	Content Area Reading	1
EDUC 693R	Project III	3
	Semester total:	4
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in Educational Technology, Elementary Mathematics, Elementary STEM, English as a Second Language, Reading 1, and Secondary Education options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Master of Education - Teacher Leadership Emphasis, M.Ed.	30 Credits
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The Master of Education Degree (M.Ed.) at Utah Valley University is an applied master's program aimed at building the instructional skills and professional competency of teachers. Currently there are seven emphases for participants: Applied Behavioral Analysis; Educational Leadership; Educational Technology; Elementary Mathematics; Elementary STEM, English as a Second Language (ESL), Higher Education Leadership, Reading I, and Teacher Leadership. The M.Ed. program emphasizes coursework that prepares teachers to become instructional leaders, with classes in advanced pedagogy, subject matter content, curriculum design, and assessment. Core coursework in research methods is required of participants in all options, however, students select a topic for a culminating project according to their interest or area of licensure in K-12 education.

Matriculation Requirements:

1. Application for admission.
2. Bachelor degree from an accredited institution.
3. Graduate Records Exam (GRE) with a verbal and quantitative score at or above the 40th percentile.
4. Overall grade point average in undergraduate work of 3.2 or higher or have a grade point average of 3.2 or higher for the last 60 semester hours of college or university credit.
5. Interview with School of Education Graduate Committee.
6. Three professional letters of recommendation.

Preference will be given to individuals who have at least one year of successful teaching experience in grades K-12. A one-year internship will count as the preferred year of successful teaching.

Graduate Studies

Preference will be given to practicing teachers who have access to an established classroom.

Discipline Core Requirements:			12 Credits
EDUC 6100	Research Methodology		3
EDUC 6110	Applied Statistics for Education		3
EDUC 6200	Masters Project		3
EDUC 6910	Project I		1
EDUC 6920	Project II		1
EDUC 693R	Project III		1
Emphasis Requirements:			18 Credits
EDUC 6300	Curriculum Design		3
EDUC 6310	Assessing Educational Practices		3
EDUC 6320	21st Century Teaching and Learning		3
EDUC 6330	Diversity and Differentiation in the Classroom		3
EDUC 6400	Teachers as Leaders		3
EDUC 6410	Contemporary Issues		3

Graduation Requirements:

1. Complete all courses with a grade of B- or better with an overall GPA of 3.0 or higher.
2. Graduate project proposal accepted by School of Education Graduate Committee.
3. Graduate project completed and accepted by the School of Education Graduate Committee.
4. Courses and project requirements must be finished within a five year period. No courses will apply toward graduation that are older than five years.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
EDUC 6320	21 st Century Teaching and Learning	3
EDUC 6100	Research Methodology	3
EDUC 6300	Curriculum Design	3
	Semester total:	9
Semester 2	Course Title	Credit Hours
EDUC 6200	Master's Project	3
EDUC 6910	Project I	1
	Semester total:	4
Semester 3	Course Title	Credit Hours
EDUC 6330	Diversity and Differentiation in the Classroom	3
EDUC 6920	Project II	1
	Semester total:	4
Semester 4	Course Title	Credit Hours
EDUC 6110	Applied Statistics for Education	3
EDUC 6410	Contemporary Issues in Education	3
	Semester total:	6
Semester 5	Course Title	Credit Hours

EDUC 6310	Assessing Educational Practices	3
	Semester total:	3
Semester 6	Course Title	Credit Hours
EDUC 6400	Teachers as Leaders	3
EDUC 693R	Project III	1
	Semester total:	4
	Degree total:	30

Careers:

While the Master of Education degree program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these graduate students for expanded leadership roles at the school, district, or state level in delivering professional development, designing and evaluating curriculum and textbooks, and mentoring novice teachers. A Master of Education degree may also qualify a student as an instructor for teacher preparation courses in a community college or as an adjunct instructor at the undergraduate level in a four-year college or university. Successful completion of this master's degree also provides a valuable foundation for those students who choose to pursue a doctoral degree. Completed coursework in English as a Second Language, Elementary Mathematics, Educational Technology, and the Reading 1 options qualifies students for an endorsement to their existing Utah Teaching Certificate.

Reading I, Endorsement	21 Credits
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The Reading Endorsement Program (REP) is designed to prepare teachers to be responsive to current scientific-reading research for teaching reading and to become advocates for reading research in the educational setting. Coursework is designed to address historical and political foundations of reading education and methods and materials for engaging students in challenging educational experiences. The UVU endorsement program is intended to provide educators with an opportunity to develop, expand, and integrate their knowledge of cognition, content, pedagogy, and cultural perspectives in their curriculum. Completed program coursework qualifies students to apply to the Utah State Office of Education for an endorsement to their current Utah Teaching License.

Discipline Core Requirements:			21 Credits
	EDUC 5660	Reading Assessments and Instructional Interventions for Practitioners (3.0)	
or	EDUC 6660	Reading Assessments and Instructional Interventions	3
	EDUC 5661	Literacy and Cognition of Reading for Practitioners (3.0)	
or	EDUC 6661	Literacy and Cognition of Reading	3
	EDUC 5662	Early Literacy Instruction for Practitioners (3.0)	
or	EDUC 6662	Early Literacy Instruction	3
	EDUC 5663	Content Area Reading for Practitioners (3.0)	
or	EDUC 6663	Content Area Reading	3
	EDUC 5664	Adolescent Literacy for Practitioners (3.0)	
or	EDUC 6664	Adolescent Literacy	3
	EDUC 5665	Reading Comprehension Instruction for Practitioners (3.0)	
or	EDUC 6665	Reading Comprehension Instruction	3
	EDUC 5666	Effective Writing Instruction for Practitioners (3.0)	
or	EDUC 6666	Effective Writing Instruction	3

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Suggested sequence:	Course Title	Credit Hours
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Graduate Studies

EDUC 5660	Reading Assessments and Instructional Interventions	3
EDUC 5661	Literacy and Cognition of Reading	3
EDUC 5662	Early Literacy Instruction	3
EDUC 5663	Content Area Reading	3
EDUC 5664	Adolescent Literacy	3
EDUC 5665	Reading Comprehension Instruction	3
EDUC 5666	Effective Writing Instruction	3
	Degree total:	21

Careers:

While this program is designed primarily to enhance the skills and understandings of practicing classroom teachers, it also prepares these students for opportunities for teaching in specialized reading programs, expanded leadership roles at the school, district, or state level in delivering professional development, evaluating educational technology, and mentoring other teachers.

Secondary Teaching, Graduate Certificate

29 Credits

The Graduate Certificate in Secondary Teaching is designed for individuals who have earned a bachelor's degree. They must have completed coursework in one of the teaching major subject areas for secondary education approved by the Utah State Board of Education (USBE) prior to admission into either program. The primary goal of the program will be to ensure that teacher candidates, through support, supervision, and evaluation, can demonstrate and apply the competencies required by the USBE for teacher licensure. Includes the basic coursework and field experiences required of all teacher candidates for an initial teaching license, ensuring that competencies in both subject knowledge and pedagogy are met.

Matriculation Requirements:

Requirements for admission to the Graduate Certificate in Secondary Teaching (GCST) program would include the following:

1. Verification of a bachelor's degree from an accredited university in a recognized content major (or with equivalent coursework) in a discipline taught in Utah secondary schools and for which UVU can recommend a secondary teaching license. Any coursework required by the Utah State Board of Education (USBE) for a content major* must be completed with a grade of C or higher prior to admission into the GCST program.
2. A cumulative GPA of 3.0 or a GPA of 3.0 for the last 60 credits of university coursework.
3. Passing scores from the Praxis II [subject-area test(s)] as required by the USBE.
4. Successful completion of a background check through USBE.

* Students will have completed a content-specific methods course prior to admission into the program. These courses are not offered in the School of Education, but in the appropriate content areas across the University. The following courses would be examples.

- ART 3500 Secondary Art Education Methods I (1.0)
- ART 3510 Secondary Art Education Methods II (3.0)
- ENGL 4210 Methods in Teaching Literacy I (3.0)
- ENGL 4220 Methods in Teaching Literacy II (3.0)
- ENGL 4230 Methods in Teaching Literacy III Teaching the Conventions of Writing (3.0)
- GEO 4200 Teaching Methods in Science (3.0)
- PHYS 4200 Teaching Methods in Science (3.0)
- CHEM 4200 Teaching Methods in Science (3.0)
- BIOL 4200 Teaching Methods in Science (3.0)
- LANG 4200 Methods of Teaching a Foreign Language (3.0)

Discipline Core Requirements:

29 Credits

EDUC 6201	Teacher Performance Assessment Project	2
EDUC 6202	Classroom Management Practicum	3
EDUC 6203	Student Teaching Graduate Licensure	6
EDUC 6320	21st Century Teaching and Learning	3
EDUC 6330	Diversity and Differentiation in the Classroom	3
EDUC 6310	Assessing Educational Practices	3
EDUC 6663	Content Area Reading	3
EDUC 6081	Instruction, Curriculum and Educational Leadership in the Digital Age	3
EDUC 6084	Universal Design for Learning	3

Graduation Requirements:

1. Completion of all required coursework, with a grade of B- or better.
2. Completion of the Teacher Performance Assessment, with a score of 42 or better.
3. Successful completion of student teaching or internship hours.
4. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and Italicized.

Semester 1	Course Title	Credit Hours
EDUC 6320	21 st Century Teaching and Learning	3
EDUC 6081	Instruction and Curriculum in the Digital Age	3
EDUC 6663	Content Area Literacy	3
	Semester total:	9
Semester 2	Course Title	Credit Hours
EDUC 6202	Classroom Management Practicum	3
EDUC 6310	Assessing Educational Practices	3
EDUC 6084	Universal Design for Learning	3
	Semester total:	9
Semester 3	Course Title	Credit Hours
EDUC 6330	Diversity and Differentiation	3
EDUC 6201	Teacher Performance Assessment Project	2
EDUC 6203	Student Teaching in Secondary Education, Graduate Licensure	6
	Semester total:	11
	Degree total:	29

College of Humanities and Social Sciences

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Master of Social Work

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Program Description

Graduate Studies

The Master of Social Work (MSW) is designed to educate and prepare students for a career at an advanced level in the social work profession. The MSW will prepare students to become a Licensed Clinical Social Worker (LCSW), qualifying them for a wider range of employment opportunities (mental health, medical social work, child welfare, etc.) working with various populations (children, adolescents, adults, elderly, disabled, etc.). The MSW program has three different specializations: Addictions, Mental Health, and Engaging with Diverse Populations, which will focus on the Latino, Polynesian, and Refugee communities. These areas of focus are projected to be significant areas of growth within the social work field over the next decade and beyond.

This dynamic, two year full-time program offers required courses in the areas of social work practice, human behavior and social environment, social welfare policy and analysis, social work with Latino, Pacific Islanders, and other Communities of Color, social work research methods, addictions, and a capstone course. Upon graduation, students will have also completed approximately 1,000 hours of field practicum experience. The program offers elective tracks in addictions, mental health, and engaging with diverse populations.

Admission Requirements

Potential students must apply for admission into the program. To be accepted, students must have completed a Bachelor's degree, preferably in Psychology, Social Work, or a related area. However, applicants who have a Bachelor's degree in another field may be admitted to the program if they can demonstrate significant work or volunteer experience in the Human Services field. All applicants are required to complete SW 1010, BESC 3010, and BESC 3020 or equivalent courses outside of UVU.

2018-19 Master of Social Work--Tuition and Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
1	\$355	\$35	\$390	1	\$935	\$35	\$970	
2	\$710	\$70	\$780	2	\$1,870	\$70	\$1,940	
3	\$1,065	\$105	\$1,170	3	\$2,805	\$105	\$2,910	
4	\$1,420	\$140	\$1,560	4	\$3,740	\$140	\$3,880	
5	\$1,775	\$175	\$1,950	5	\$4,675	\$175	\$4,850	
6	\$2,130	\$210	\$2,340	6	\$5,610	\$210	\$5,820	
7	\$2,485	\$245	\$2,730	7	\$6,545	\$245	\$6,790	
8	\$2,840	\$280	\$3,120	8	\$7,480	\$280	\$7,760	
9	\$3,195	\$315	\$3,510	9	\$8,415	\$315	\$8,730	
10	\$3,550	\$350	\$3,900	10	\$9,350	\$350	\$9,700	
11	\$3,905	\$350	\$4,255	11	\$10,285	\$350	\$10,635	
12	\$4,260	\$350	\$4,610	12	\$11,220	\$350	\$11,570	
13	\$4,615	\$350	\$4,965	13	\$12,155	\$350	\$12,505	
14	\$4,970	\$350	\$5,320	14	\$13,090	\$350	\$13,440	
15	\$5,325	\$350	\$5,675	15	\$14,025	\$350	\$14,375	
16	\$5,680	\$350	\$6,030	16	\$14,960	\$350	\$15,310	
17	\$6,035	\$350	\$6,385	17	\$15,895	\$350	\$16,245	
18	\$6,390	\$350	\$6,740	18	\$16,830	\$350	\$17,180	
19	\$6,745	\$350	\$7,095	19	\$17,765	\$350	\$18,115	
20	\$7,100	\$350	\$7,450	20	\$18,700	\$350	\$19,050	

Social Work Advanced Standing, M.S.W	43 Credits
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The Master of Social Work (MSW) at UVU is designed to educate and prepare students for a career at the next level in the social work profession. The MSW will prepare students to become a Licensed Clinical Social Worker (LCSW) qualifying them for a wider range of employment opportunities (mental health, medical social work, child welfare, etc.) working with various populations (children, adolescents, adults, elderly, disabled, etc.). The MSW Program will have three different specializations: Mental Health, Addictions (including substance and nonsubstance addictions, i.e. pornography, gambling, painkillers, etc.), and Engaging with Diverse

Discipline Core Requirements:		37 Credits
Social Work Core		
Complete the following:		
Advanced Standing Bridge Requirement		
SW 6490	MSW Advanced Standing Bridge Course	4
SW 6491	MSW Advanced Standing Skills Course	4

Complete the following:			
SW 6030	Social Work Practice III-Advanced Practice with Individuals and Families		3
SW 6040	Social Work Practice IV-Advanced Practice with Groups and Complex Cases		3
SW 6050	Social Work Practice V-Advanced Practice with Organizations and Communities		3
SW 6320	Social Work with Latino, Pacific Islanders, and other Communities of Color		3
SW 6400	Social Work Research Methods		3
SW 6500	Addictions		2
SW 6950	MSW Capstone		2
Field Practicum Requirement			
Complete the following:			
SW 6830	Integrative Seminar III		1
and SW 6930	Advanced Field Practicum I		4
SW 6840	Integrative Seminar IV		1
and SW 6940	Advanced Field Practicum II		4
Elective Requirements:			6 Credits
Choose one of the following Tracks:			6
Addictions Track			
SW 6510	Clinical Issues in Substance-Related Addictions (2.0)		
SW 6520	Clinical Issues in Non-Substance Related Addictions (2.0)		
SW 6530	Psychopharmacology (2.0)		
or	other departmental approved courses		
Mental Health Track - Complete six credits from the following			
SW 6610	Spirituality in Social Work (2.0)		
SW 6620	Marriage and Family Therapy (2.0)		
SW 6630	Mental Health Diagnosis (2.0)		
SW 6640	Crisis Intervention (2.0)		
SW 6650	Couples Therapy (2.0)		
SW 6660	Family Violence Across the Lifespan (2.0)		
or	other departmental approved courses		
Engaging with Diverse Populations Track			
SW 6700	Advanced Practice with Communities of Color and Other Diverse Populations (2.0)		
SW 6710	Policy Practice with Communities of Color and Other Diverse Populations (2.0)		
SW 6720	Engaging and Empowering the Latino Community (2.0)		
or	other departmental approved courses		

Graduation Requirements:

1. Completion of a minimum of 43 semester credits required in the Master of Social Work degree.
2. Completion of a minimum of 29 semester credits must be completed through the University.
3. Overall grade point average of 3.0 or higher in all Master of Social Work courses.
4. A grade of "C-" or higher required for all courses used to satisfy graduation requirement.

Social Work, M.S.W	60 Credits
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The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or clinical nurse educators in healthcare institutions. The program includes core courses essential to master-level nursing programs as well as courses designed to prepare nurses to assume roles as academic nurse educators and/or clinical nurse educators. Program content focuses on theoretical foundations of nursing education and leadership; tests and measurements of learning outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Program courses provide skills and strategies for facilitation of learning in a variety of settings.

Graduate Studies

Discipline Core Requirements:			54 Credits
Social Work Core			
Complete the following:			
	SW 6000	Social Work Practice I-Individuals	3
	SW 6020	Social Work Practice II-Groups	3
	SW 6030	Social Work Practice III-Advanced Practice with Individuals and Families	3
	SW 6040	Social Work Practice IV-Advanced Practice with Groups and Complex Cases	3
	SW 6050	Organizations and Communities	3
	SW 6200	Human Behavior and the Social Environment I	3
	SW 6210	Human Behavior and the Social Environment II	3
	SW 6300	Social Welfare Policy and Analysis	3
	SW 6320	Social Work with Latino, Pacific Islanders, and other Communities of Color	3
	SW 6400	Social Work Research Methods	3
	SW 6500	Addictions	2
	SW 6950	MSW Capstone	2
Field Practicum Requirement			
Complete the following:			
	SW 6810	Integrative Seminar I	1
and	SW 6910	Foundation Field Practicum I	4
	SW 6820	Integrative Seminar II	1
and	SW 6920	Foundation Field Practicum II	4
	SW 6830	Integrative Seminar III	1
and	SW 6930	Advanced Field Practicum I	4
	SW 6840	Integrative Seminar IV	1
and	SW 6940	Advanced Field Practicum II	4
Elective Requirements:			6 Credits
Choose one of the following Tracks:			
Addictions Track			
	SW 6510	Clinical Issues in Substance-Related Addictions (2.0)	
	SW 6520	Clinical Issues in Non-Substance Related Addictions (2.0)	
	SW 6530	Psychopharmacology (2.0)	
or	other departmental approved courses		
Mental Health Track - Complete six credits from the following			
	SW 6610	Spirituality in Social Work (2.0)	
	SW 6620	Marriage and Family Therapy (2.0)	
	SW 6630	Mental Health Diagnosis (2.0)	
	SW 6640	Crisis Intervention (2.0)	
	SW 6650	Couples Therapy (2.0)	
	SW 6660	Family Violence Across the Lifespan (2.0)	
or	other departmental approved courses		
Engaging with Diverse Populations Track			
	SW 6700	Advanced Practice with Communities of Color and Other Diverse Populations (2.0)	
	SW 6710	Policy Practice with Communities of Color and Other Diverse Populations (2.0)	
	SW 6720	Engaging and Empowering the Latino Community (2.0)	
or	other departmental approved courses		

Graduation Requirements:

1. Completion of a minimum of 60 semester credits required in the Master of Social Work degree.
2. Completion of a minimum of 40 semester credits must be completed through the University.
3. Overall grade point average of 3.0 or higher in all Master of Social Work courses.
4. A grade of "C-" or higher required for all courses used to satisfy graduation requirement.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours	
	<i>SW 6000</i>	Social Work Practice I (Individuals)	3
	SW 6200	Human Behavior and the Social Environment I	3
	<i>SW 6300</i>	Social Welfare Policy and Analysis	3
	<i>SW 6810</i>	Integrative Seminar I	1
	<i>SW 6910</i>	Foundation Field Practicum I	4
		Semester total:	14
Semester 2	Course Title	Credit Hours	
	<i>SW 6020</i>	Social Work Practice II: Groups	3
	SW 6210	Human Behavior and the Social Environment II	3
	SW 6500	Addictions	2
	<i>SW 6820</i>	Integrative Seminar II	1
	<i>SW 6920</i>	Foundation Field Practicum II	4
		Social Work Elective from track	2
		Semester total:	15
Semester 3	Course Title	Credit Hours	
	SW 6320	Social Work with Latino, Pacific Islanders, and other Communities of Color	3
	SW 6030	Social Work Practice III: Advanced Practice with Individuals and Families	3
	<i>SW 6400</i>	Social Work Research Methods	3
	<i>SW 6830</i>	Integrative Seminar III	1
	<i>SW 6930</i>	Advanced Field Practicum I	4
		Social Work Elective from track	2
		Semester total:	16
Semester 4	Course Title	Credit Hours	
	SW 6040	Social Work Practice IV: Advanced Practice with Groups and Complex Cases	3
	SW 6050	Social Work Practice V: Advanced Practice with Organizations and Communities	3
	SW 6950	MSW Capstone	2
	SW 6840	Integrative Seminar IV	1
	SW 6940	Advanced Field Practicum II	4
		Social Work Elective from track	2
		Semester total:	15
		Degree total:	60

Graduate Studies

College of Health and Public Services

- **Dean:** David A. McEntire
- **Office:** Hangar A - RM 207
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Master of Public Service

- **Program Director:** Thomas Sturtevant
- **Office:** Hangar A – Rm 202
- **Telephone:** 801-863-7518
- **Email:** tom.sturtevant@uvu.edu

- **Administrative Support:** Meridee Chilton
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- **Telephone:** 801-863-5848
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Program Description

The Master of Public Service (MPS) degree at UVU develops the next generation of public service administrators. The MPS offers students an applied and engaging public sector education with broad based knowledge, skills, and abilities in public service administration. The interdisciplinary curriculum focuses on managing, leading, and administering vital public services and public safety functions with an emphasis on ethical considerations, communications, strategic planning, public policy issues, and research methods.

The MPS requires 36 semester hours of graduate course work; currently offered all online.

Admission Requirements

Bachelor degree holders with at least a 3.0 GPA cumulative or last 60 credit hours may apply. Potential students must apply for admission by completing the online MPS Graduate School Application. To be accepted, students must complete the following:

- Submit all official transcripts.
- Provide two letters of recommendation.
- Submit resume.
- Submit answer to essay questions.

Deadlines and current application requirements are posted on the MPS website; www.uvu.edu/mps.

Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
1	\$406	\$35	\$441	1	\$986	\$35	\$1,021
2	\$812	\$70	\$882	2	\$1,972	\$70	\$2,042
3	\$1,218	\$105	\$1,323	3	\$2,958	\$105	\$3,063
4	\$1,624	\$140	\$1,764	4	\$3,944	\$140	\$4,084
5	\$2,030	\$175	\$2,205	5	\$4,930	\$175	\$5,105
6	\$2,436	\$210	\$2,646	6	\$5,916	\$210	\$6,126
7	\$2,842	\$245	\$3,087	7	\$6,902	\$245	\$7,147
8	\$3,248	\$280	\$3,528	8	\$7,888	\$280	\$8,168
9	\$3,654	\$315	\$3,969	9	\$8,874	\$315	\$9,189
10	\$4,060	\$350	\$4,410	10	\$9,860	\$350	\$10,210
11	\$4,466	\$350	\$4,816	11	\$10,846	\$350	\$11,196
12	\$4,872	\$350	\$5,222	12	\$11,832	\$350	\$12,182
13	\$5,278	\$350	\$5,628	13	\$12,818	\$350	\$13,168
14	\$5,684	\$350	\$6,034	14	\$13,804	\$350	\$14,154
15	\$6,090	\$350	\$6,440	15	\$14,790	\$350	\$15,140
16	\$6,496	\$350	\$6,846	16	\$15,776	\$350	\$16,126

17	\$6,902	\$350	\$7,252		17	\$16,762	\$350	\$17,112
18	\$7,308	\$350	\$7,658		18	\$17,748	\$350	\$18,098
19	\$7,714	\$350	\$8,064		19	\$18,734	\$350	\$19,084
20	\$8,120	\$350	\$8,470		20	\$19,720	\$350	\$20,070

Public Service, M.P.S.	36 Credits
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The Master of Public Service at Utah Valley University is an applied inter-disciplinary professional master's degree aimed at preparing public service administrators in emergency services and criminal justice. This graduate degree provides an in-depth education of the science and praxis of administering vital public services, public safety functions, ethical considerations, leadership, and strategic communications, along with issues in emergency management, civil security/resiliency, public works, transportation, critical infrastructure protection, post-disaster humanitarian response, pandemics, strategic planning, public health, and public policy issues.

Total Program Credits: 36

Matriculation Requirements:		
<ol style="list-style-type: none"> 1. A 3.0 cumulative GPA from the institution where the undergraduate degree was awarded or a 3.0 GPA calculated on the last 60 semester hours (90 quarter hours) from the institution where the undergraduate degree was awarded. 2. A bachelor's degree from a regionally-accredited college/university, a nationally accredited program, or an international college or university recognized by a Ministry of Education in one of the following or related fields: * <ul style="list-style-type: none"> • Emergency Services • Criminal Justice/Law Enforcement, Forensic Science • Political Science • Public and Community Health • Aviation Science • Emergency Management/Homeland Security • Emergency Medical Services • Business Administration, Organizational Management • Environmental Science • Public Admin/Public Management • Social Science • Technology Management 3. Graduate School Application. 4. Official transcripts from all attended institutions of higher education. 5. Two letters of recommendation. 6. Admissions Essay 		
Discipline Core Requirements:		24 Credits
MPS 6000	Public Services Administration	3
MPS 6010	Public Services Finance and Budgeting	3
MPS 6020	Public Services Policy and Evaluation	3
MPS 6030	Legal Issues for the Public Services	3
MPS 6040	Organizational Behavior in the Public Services	3
MPS 6050	Public Services Leadership and Ethics	3
MPS 6060	Research Methods for the Public Services	3
MPS 690R	Public Services Project	3
Elective Requirements:		12 Credits
Complete 12 credits		12
ESMG 6100	Psychology and the Emergency Services Responder (3.0)	
ESMG 6110	Disasters/Vulnerability/and Impacts (3.0)	
ESMG 6120	Emergency Planning and Response (3.0)	
ESMG 6130	Social Vulnerability in Emergencies (3.0)	
CJ 6200	Advanced Topics in Criminal Justice (3.0)	

Graduate Studies

CJ 6210	Information-based Decision Making for Criminal Justice Administrators (3.0)	
CJ 6220	Contemporary Issues In Criminal Justice (3.0)	
CJ 6230	Criminal Justice Policy (3.0)	
Graduate-level electives as approved by the MPS Director		

Graduation Requirements:

1. A minimum cumulative GPA of 3.0 or higher must be maintained within program.
2. All course work must be completed with a "B" or higher.

Footnotes

* Applicants with a bachelor's degrees in other fields may be admitted if they have at least two years of public services experience and completed undergraduate courses with a B grade or better. These applications are handled on a case-by-case basis.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and Italicized.

Semester 1	Course Title	Credit Hours
MPS 6000	Public Services Administration	3
MPS 6020	Public Services Policy and Evaluation	3
	Semester total:	6
Semester 2	Course Title	Credit Hours
MPS 6030	Legal Issues for the Public Services	3
	MPS Elective course	3
	Semester total:	6
Semester 3	Course Title	Credit Hours
MPS 6010	Finance and Budgeting for the Public Services	3
	MPS Elective course	3
	Semester total:	6
Semester 4	Course Title	Credit Hours
MPS 6040	Organizational Behavior in the Public Services	3
	MPS Elective Course	3
	Semester total:	6
Semester 5	Course Title	Credit Hours
MPS 6050	Public Service Leadership and Ethics	3
	MPS Elective Course	3
	Semester total:	6
Semester 6	Course Title	Credit Hours
MPS 6060	Research Methods for Public Services	3
MPS 690R	Public Services Project	3
	Semester total:	6
	Degree total:	36

Careers:

A Master of Public Service (MPS) will prepare students from a variety of backgrounds (e.g., Criminal Justice, Emergency Services, Forensic Science, Aviation Science, Public and Community Health, Environmental Science, Public Works) for careers in the public sectors at the local, state, and/or national level. The core curriculum will educate the student in the functions/roles/responsibilities of government. Graduates will learn about leadership principles, management responsibilities, budgeting guidelines, and best practices in human resources.

College of Health and Public Service

- **Dean:** David A. McEntire
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Master of Science in Nursing

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- **Advisor:** Kathy Hafen
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Accreditation

The Master of Science in Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA, 30326.

Program Description

The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or as clinical nurse educators in healthcare institutions. The program includes core courses essential to master-level nursing programs as well as courses designed to prepare nurses to assume roles as academic nurse educators and/or as clinical nurse educators. Program content focuses on: theoretical foundations of nursing education and leadership; tests and measurements of learning outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Program courses provide skills and strategies for facilitation of learning in a variety of settings.

Admission Requirements

Acceptance into the MSN program will be based on information from the following:

- Baccalaureate degree in nursing from a program accredited by a recognized nursing accreditation agency.
- Current licensure as an RN in Utah or eligible for RN licensure in Utah.
- Completion of an undergraduate course in statistics to include descriptive and inferential statistics.
- Application for admission to the MSN program.
- Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework.
- Three professional letters of recommendation

2018-19 Base Graduate-Tuition and General Fee Schedule							
Resident				Non-Resident			
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total
0.5	141.50	17.50	159.00	0.5	431.50	17.50	449.00
1.0	283.00	35.00	318.00	1.0	863.00	35.00	898.00
1.5	424.50	52.50	477.00	1.5	1,294.50	52.50	1,347.00
2.0	566.00	70.00	636.00	2.0	1,726.00	70.00	1,796.00
2.5	707.50	87.50	795.00	2.5	2,157.50	87.50	2,245.00
3.0	849.00	105.00	954.00	3.0	2,589.00	105.00	2,694.00
3.5	990.50	122.50	1,113.00	3.5	3,020.50	122.50	3,143.00

Graduate Studies

4.0	1,132.00	140.00	1,272.00		4.0	3,452.00	140.00	3,592.00
4.5	1,273.50	157.50	1,431.00		4.5	3,883.50	157.50	4,041.00
5.0	1,415.00	175.00	1,590.00		5.0	4,315.00	175.00	4,490.00
5.5	1,556.50	192.50	1,749.00		5.5	4,746.50	192.50	4,939.00
6.0	1,698.00	210.00	1,908.00		6.0	5,178.00	210.00	5,388.00
6.5	1,839.50	227.50	2,067.00		6.5	5,609.50	227.50	5,837.00
7.0	1,981.00	245.00	2,226.00		7.0	6,041.00	245.00	6,286.00
7.5	2,122.50	262.50	2,385.00		7.5	6,472.50	262.50	6,735.00
8.0	2,264.00	280.00	2,544.00		8.0	6,904.00	280.00	7,184.00
8.5	2,405.50	297.50	2,703.00		8.5	7,335.50	297.50	7,633.00
9.0	2,547.00	315.00	2,862.00		9.0	7,767.00	315.00	8,082.00
9.5	2,688.50	332.50	3,021.00		9.5	8,198.50	332.50	8,531.00
10.0	2,830.00	350.00	3,180.00		10.0	8,630.00	350.00	8,980.00
10.5	2,971.50	350.00	3,321.50		10.5	9,061.50	350.00	9,411.50
11.0	3,113.00	350.00	3,463.00		11.0	9,493.00	350.00	9,843.00
11.5	3,254.50	350.00	3,604.50		11.5	9,924.50	350.00	10,274.50
12.0	3,396.00	350.00	3,746.00		12.0	10,356.00	350.00	10,706.00
12.5	3,537.50	350.00	3,887.50		12.5	10,787.50	350.00	11,137.50
13.0	3,679.00	350.00	4,029.00		13.0	11,219.00	350.00	11,569.00
13.5	3,820.50	350.00	4,170.50		13.5	11,650.50	350.00	12,000.50
14.0	3,962.00	350.00	4,312.00		14.0	12,082.00	350.00	12,432.00
14.5	4,103.50	350.00	4,453.50		14.5	12,513.50	350.00	12,863.50
15.0	4,245.00	350.00	4,595.00		15.0	12,945.00	350.00	13,295.00
15.5	4,386.50	350.00	4,736.50		15.5	13,376.50	350.00	13,726.50
16.0	4,528.00	350.00	4,878.00		16.0	13,808.00	350.00	14,158.00
16.5	4,669.50	350.00	5,019.50		16.5	14,239.50	350.00	14,589.50
17.0	4,811.00	350.00	5,161.00		17.0	14,671.00	350.00	15,021.00
17.5	4,952.50	350.00	5,302.50		17.5	15,102.50	350.00	15,452.50
18.0	5,094.00	350.00	5,444.00		18.0	15,534.00	350.00	15,884.00
18.5	5,235.50	350.00	5,585.50		18.5	15,965.50	350.00	16,315.50
19.0	5,377.00	350.00	5,727.00		19.0	16,397.00	350.00	16,747.00
19.5	5,518.50	350.00	5,868.50		19.5	16,828.50	350.00	17,178.50
20.0	5,660.00	350.00	6,010.00		20.0	17,260.00	350.00	17,610.00
20.5	5,801.50	350.00	6,151.50		20.5	17,691.50	350.00	18,041.50
21.0	5,943.00	350.00	6,293.00		21.0	18,123.00	350.00	18,473.00
21.5	6,084.50	350.00	6,434.50		21.5	18,554.50	350.00	18,904.50
22.0	6,226.00	350.00	6,576.00		22.0	18,986.00	350.00	19,336.00
22.5	6,367.50	350.00	6,717.50		22.5	19,417.50	350.00	19,767.50
23.0	6,509.00	350.00	6,859.00		23.0	19,849.00	350.00	20,199.00
23.5	6,650.50	350.00	7,000.50		23.5	20,280.50	350.00	20,630.50
24.0	6,792.00	350.00	7,142.00		24.0	20,712.00	350.00	21,062.00
24.5	6,933.50	350.00	7,283.50		24.5	21,143.50	350.00	21,493.50
25.0	7,075.00	350.00	7,425.00		25.0	21,575.00	350.00	21,925.00

For each credit hour over 25, \$283 per credit hour will be assessed for residents and \$863 per credit hour for non-residents

Nursing, M.S.N Requirements

34 Credits

The Master of Science in Nursing program prepares post-baccalaureate nursing students for advanced practice roles as nurse educators in academic settings and/or clinical nurse educators in healthcare institutions. The program includes core courses essential to master-level nursing programs as well as courses designed to prepare nurses to assume roles as academic nurse educators and/or clinical nurse educators. Program content focuses on theoretical foundations of nursing education and leadership; tests and measurements of learning outcomes; curriculum development, implementation and evaluation; and academic and clinical teaching. Program courses provide skills and strategies for facilitation of learning in a variety of settings.

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Baccalaureate degree in nursing from a program accredited by a recognized nursing accreditation agency. 2. Current licensure as an RN in Utah or eligible for RN licensure in Utah. 3. Completion of an undergraduate course in statistics to include descriptive and inferential statistics. 4. Application for admission to the MSN program. 5. Overall undergraduate GPA of 3.2 or higher, or GPA of 3.2 or higher in last 60 semester hours of undergraduate coursework. 6. Three professional letters of recommendation. 			
Discipline Core Requirements:			34 Credits
NURS 6000	Leadership Development		2
NURS 6050	Nursing Informatics		2
NURS 6200	Advanced Nursing Theory		2
NURS 6250	Advanced Nursing Research		3
NURS 6300	Advanced Nursing in Health Systems and Policy		2
NURS 6350	Advanced Nursing Pathophysiology/Pharmacology		3
NURS 6450	Advanced Nursing Assessment		3
NURS 6500	Curriculum Design and Development		3
NURS 6600	Teaching Nursing in the Classroom Setting		2
NURS 6605	Teaching Nursing in the Classroom Setting Practicum		2
NURS 6650	Teaching Nursing in the Clinical Setting		2
NURS 6655	Teaching Nursing in the Clinical Setting Practicum		2
NURS 6700	Evaluation of Learning Outcomes		3
NURS 6795	Synthesis of Teaching Practice Practicum		1
NURS 699R	MSN Project or Thesis		2

Graduation Requirements:

1. Complete all discipline core courses with a grade of 3.0 or better
2. Project or thesis completed and accepted by Department of Nursing Graduate Committee

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>NURS 6000</i>	Leadership Development	2
<i>NURS 6050</i>	Nursing Informatics	2
<i>NURS 6200</i>	Advanced Nursing Theory	2
<i>NURS 6250</i>	Advanced Nursing Research	3
	Semester total:	9
Semester 2	Course Title	Credit Hours
NURS 6300	Advanced Nursing in Health Systems and Policy	2
NURS 6350	Advanced Nursing Pathophysiology/Pharmacology	3
NURS 6600	Teaching Nursing in the Classroom Setting	2
NURS 6605	Teaching Nursing in the Classroom Setting Practicum	2

Graduate Studies

NURS 699R	MSN Project or Thesis (Project/thesis requires 2 to 6 credits)	0-1
	Semester total:	9
Semester 3	Course Title	Credit Hours
NURS 6500	Curriculum Design and Development	3
NURS 6650	Teaching Nursing in the Clinical Setting	2
NURS 6655	Teaching Nursing in the Clinical Setting Practicum	2
NURS 699R	MSN Project or Thesis (Project/thesis requires 2 to 6 credits)	1
	Semester total:	8
Semester 4	Course Title	Credit Hours
NURS 6450	Advanced Nursing Assessment	3
<i>NURS 6700</i>	Evaluation of Learning Outcomes	3
<i>NURS 6795</i>	Synthesis of Teaching Practice Practicum	1
NURS 699R	MSN Project or Thesis (Project/thesis requires 2 to 6 credits)	1
	Semester total:	8
	Degree total:	34

Careers:

Graduates of the UVU MSN program have the knowledge, skills and experience needed to educate nurses in academic and other professional settings. The program prepares registered nurses for advanced practice roles including nursing faculty in higher education, clinical nurse educators in healthcare institutions, and nursing leadership roles.

College of Engineering and Technology

- **Dean:** Saeed Moaveni
- **Office:** CS 720c
- **Telephone:** 801-863-8237
- **E-mail:** Saeed.Moaveni@uvu.edu

Master of Computer Science

- **Department Chair:** Neil Harrison
- **Office:** CS 520
- **Telephone:** 801-863-7312
- **Email:** Neil.Harrison@uvu.edu
- **Program Director:** Curtis Welborn
- **Office:** CS 520f
- **Telephone:** 801-863-7058
- **Email:** Curtis.Welborn@uvu.edu
- **Advisor:** Fred Orchard
- **Office:** CS 635
- **Telephone:** 801-863-8238
- **Email:** Fred.Orchard@uvu.edu
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Program Requirements

The Master of Computer Science (MCS) degree at Utah Valley University is an applied graduate program focused on preparing students to enter the local, national, and global workforce as leaders and innovators rather than focusing on preparing students to conduct basic research. An MCS degree is considered a professional degree as graduate students complete a graduate project rather than a theoretical or research-based thesis often associated with a Master of Science in Computer Science (MSCS) degree.

The focus of the degree does not mean you cannot explore exciting, cutting-edge new technologies; it just means we will focus your efforts on developing a working project that applies your new knowledge rather than focusing your efforts on basic research and writing papers on the topic. One should not assume that the degree's focus on completing a project means that the MCS does not value writing or presenting presentations. To be a workforce leader and innovator, you must be able to express highly technical and complex topics concisely and clearly. Developing your technical communication skills will always be a part of the MCS.

The MCS requires students to complete 30 hours of course work beyond their undergraduate degree to gain additional breadth and depth. Six hours of this course work will be associated with your graduate project where you will design and develop a large complex project from inception to completion. Students without an undergraduate degree in computer science who have a passion for the field are encouraged to apply. In such cases a student can be conditionally admitted while they complete an individualized leveling plan designed to bring their skills up to the required level to enter the MCS.

NOTE: Graduate policy precludes conditionally admitted students from taking any 6000 level courses. The UVU Computer Science Department cannot waive or alter this graduate policy.

Admission Requirements

The most desirable background for an MCS student is someone with an undergraduate degree in a computer-related field (Computer Science, Computer Engineering, Software Engineering, or a closely related field). The UVU Computer Science Department does not require nor does it use standardized test scores to evaluate the readiness of a candidate to begin the MCS. You will need an overall grade point average of 3.0 or higher on a 4.0 scale. Additionally, you will need to have completed the following UVU or equivalent classes with a C+ or better:

- CS 2300 Discrete Structures I
- CS 2420 Introduction to Algorithms and Data Structures
- CS 2810 Computer Organization and Architecture
- CS 3060 Operating Systems Theory
- MATH 1210 Calculus I

2018-19 Rate Master of Computer Science--Tuition and Fee Schedule								
Resident				Non-Resident				
Credit Hours	Tuition	Fees	Total	Credit Hours	Tuition	Fees	Total	
1	\$380	\$35	\$415	1	\$960	\$35	\$995	
2	\$760	\$70	\$830	2	\$1,920	\$70	\$1,990	
3	\$1,140	\$105	\$1,245	3	\$2,880	\$105	\$2,985	
4	\$1,520	\$140	\$1,660	4	\$3,840	\$140	\$3,980	
5	\$1,900	\$175	\$2,075	5	\$4,800	\$175	\$4,975	
6	\$2,280	\$210	\$2,490	6	\$5,760	\$210	\$5,970	
7	\$2,660	\$245	\$2,905	7	\$6,720	\$245	\$6,965	
8	\$3,040	\$280	\$3,320	8	\$7,680	\$280	\$7,960	
9	\$3,420	\$315	\$3,735	9	\$8,640	\$315	\$8,955	
10	\$3,800	\$350	\$4,150	10	\$9,600	\$350	\$9,950	
11	\$4,180	\$350	\$4,530	11	\$10,560	\$350	\$10,910	
12	\$4,560	\$350	\$4,910	12	\$11,520	\$350	\$11,870	
13	\$4,940	\$350	\$5,290	13	\$12,480	\$350	\$12,830	
14	\$5,320	\$350	\$5,670	14	\$13,440	\$350	\$13,790	
15	\$5,700	\$350	\$6,050	15	\$14,400	\$350	\$14,750	
16	\$6,080	\$350	\$6,430	16	\$15,360	\$350	\$15,710	
17	\$6,460	\$350	\$6,810	17	\$16,320	\$350	\$16,670	
18	\$6,840	\$350	\$7,190	18	\$17,280	\$350	\$17,630	
19	\$7,220	\$350	\$7,570	19	\$18,240	\$350	\$18,590	
20	\$7,600	\$350	\$7,950	20	\$19,200	\$350	\$19,550	

Master of Computer Science, M.C.S.	30 Credits
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The Master of Computer Science (MCS) at Utah Valley University is an applied graduate program resulting in a professional degree. Students graduating with this degree will have a broad grounding in computer science as a discipline and be well equipped to take on leadership roles in a wide range of computing technology-related industries. Student education will be focused on developing software systems using current technologies while allowing them the freedom to explore and exploit new technologies to solve real-world problems. Students will be required to develop a broad base of competency by passing required courses in large scale implementation, applied mathematics computing, information management, and software engineering. Electives will allow a student to continue to add breadth to their education or allow them to focus on specific areas of computer science they find interesting or feel will best advance their professional objectives.

Total Program Credits: 30

Matriculation Requirements:
1. Application for admission to the MCS will include letters of recommendation and a statement of purpose.
2. Applicants must have an overall grade point average in their undergraduate work of 3.0 or higher on a 4.0 scale.

Graduate Studies

3 For international students whose native language is not English, a TOEFL score of 80 iBT (550 pBT) or higher, or an IELTS band score of 6.5 or higher within the past two years, is required.

4. Applicants with a bachelor's degree in a computer-related field (Computer Science, Computer Engineering, Software Engineering, or a closely related field) who have completed the following courses (or equivalent courses from other institutions) with a C+ or better will be deemed to have the fundamental computer science background to enter the program:

- CS 2300 Discrete Structures I
- CS 2420 Introduction to Algorithms and Data Structures
- CS 2810 Computer Organization and Architecture
- CS 3060 Operating Systems Theory
- MATH 1210 Calculus I

5. Applicants found lacking in fundamental computer science background can be conditionally admitted to the MCS. Conditionally admitted students will have an individualized MCS Leveling Plan (MCS LP) developed for them by the Computer Science Graduate Committee. Once the MCS LP has been met by the applicant, the applicant will be deemed to have the fundamental computer science background to enter the program. Graduate policy precludes conditionally admitted students from taking 6000 level courses.

6. Applicants found lacking in fundamental computer science background can be conditionally admitted to the MCS. Conditionally admitted students will have an individualized MCS Leveling Plan (MCS LP) developed for them by the Computer Science Graduate Committee. Once the MCS LP has been met by the applicant, the applicant will be deemed to have the fundamental computer science background to enter the program. Graduate policy precludes conditionally admitted students from taking 6000 level courses.

7. All applicants will be subject to the approval of the Computer Science Graduate Committee.

Discipline Core Requirements:			24 Credits
	CS 6150	Advanced Algorithms	3
	CS 6300	Software Engineering Leadership	3
	CS 6400	Modern Databases	3
	CS 6500	Software Architecture	3
	CS 6510	Design and Simulation of Operating Systems	3
	CS 6600	Graduate Project I	3
	CS 6610	Graduate Project II	3
	CS 6700	Advanced Mathematics for Computer Science	3
Elective Requirements:			6 Credits
Electives: Pick 2 Courses, or other departmental approved electives			6
	CS 6100	Database Management System Construction (3.0)	
	CS 6470	Machine Learning (3.0)	
	CS 6620	Advanced Data Mining and Visualization (3.0)	
	CS 6730	Advanced Embedded Systems Engineering (3.0)	
	CS 6800	Computer Graphics (3.0)	

Graduation Requirements:

1. Completion of all courses with a grade of B- or better.
2. Graduate project proposal presented to and accepted by the student's Advisory Committee.
3. Completion and defense of graduate project (CS 6600 and CS 6610); defense must be accepted by the student's Advisory Committee.
4. Completion of all required courses and elective courses for a total of 30 credit hours with an average GPA of 3.0 or higher.

Graduation Plan:

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
CS 6510	Design and Simulation of Operating Systems	3
<i>CS 6300</i>	Software Engineering Leadership	3

	Semester total:	6
Semester 2	Course Title	Credit Hours
CS 6400	Modern Databases	3
CS 6700	Advanced Mathematics for Computer Science	3
	Semester total:	6
Semester 3	Course Title	Credit Hours
CS 6500	Software Architecture	3
Elective	MCS Elective Course	3
	Semester total:	6
Semester 4	Course Title	Credit Hours
CS 6150	Advanced Algorithms	3
Elective	MCS Elective Course	3
	Semester total:	6
Semester 5	Course Title	Credit Hours
CS 6600	Graduate Project I	3
	Semester total:	3
Semester 6	Course Title	Credit Hours
CS 6610	Graduate Project II	3
	Semester total:	3
	Degree total:	30

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ABBOTT, Scott (1999); *Professor*. Faculty, Integrated Studies; B.A., M.A., German Literature, Philosophy minor, Brigham Young University; Ph.D., German Literature, Princeton University.

ABDRISAEV, Baktybek (2007); *Lecturer*. Faculty, History & Political Science; B.S., Computer Science, Bishkek Polytechnic Institute; Ph.D., Electronics, Academy of Science Belarus.

ABRAMSON, Mark (2017); *Associate Professor*. Faculty, Mathematics; B.S., Computational Mathematics, Brigham Young University; M.A., Computational/Applied Mathematics Rice University; M.S. Aeronautics/Astronautics, University of Washington; Ph.D., Computational/Applied Mathematics, Rice University.

ABUNUWARA, Kim (2013); *Assistant Professor*. Faculty, Integrated Studies; B.A., Ph.D., Theatre & Film, Brigham Young University; MFA, Acting, National Theatre Conservatory.

ADAMS, David (1999); *Associate Professor*. Department Chair and Faculty, Engineering Technology; B.S., Mining Engineering, Virginia Polytechnic Institute and State University; professionally licensed Electrical Contractor, Building Inspector and Master Electrician.

AESCHBACHER, Max (2005); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, University of Utah; M.S., Mathematics, University of Oregon.

ALBRECHT-CRANE, Christa (2001); *Professor*. Faculty, English & Literature; B.A., American Literary and Cultural History, Ludwig-Maximilian's University; M.A., American Studies, Washington State University; Ph.D., Rhetoric and Technical Communication, Michigan Technological University.

ALIN, Pauli (2016); *Assistant Professor*. Faculty, Technology Management; B.A., M.Soc.Sci., Communication, University of Helsinki; D.Sc., Industrial Engineering, Aalto University, Finland.

ALLEN, Kyle (2017); *Assistant Professor*. Faculty, Finance & Economics; A.A., Business Administration, Snow College; B.S., Business Management, Utah Valley University; M.B.A., Global Management, Thunderbird School of Global Management; Ph.D., Finance, Texas Tech University .

ALLISON, Charles (2001); *Professor*. Faculty, Computer Science; B.S., Mathematics/Portuguese, M.S., Mathematics/Statistics, Brigham Young University; M.S., Ph.D. (ABD), Applied Math/Computer Science, University of Arizona.

ALLRED, Jonathan (2015); *Assistant Professor*. Faculty, Engineering Design Technology; A.S., Drafting Technologies, B.S., Technology Management, Utah Valley University; M.Ed., Technology & Learning Sciences, Utah State University.

ALLRED, Steven (2008); *Associate Professor*. Faculty, Emergency Services; A.A.S., Fire Science, B.S., Public Emergency Services Management, Utah Valley University; A.A.S., Emergency Care and Rescue, Weber State University; M.Ed., Instructional Design, Utah State University.

AMIN, Masood (1997); *Associate Professor*. Faculty, Engineering Technology; B.S., M.S., Ph.D., Mechanical Engineering, Brigham Young University.

ANDERSEN, Bonnie (2008); *Associate Professor*. Faculty, Physics; B.S., Physics, Brigham Young University; Ph.D., Experimental Physics, University of Utah.

ANDERSEN, Duane (2014); *Assistant Professor*. Faculty, Digital Media; B.F.A., Brigham Young University; M.F.A., State University of New York, Buffalo.

ANDERSON, Christopher (2014); *Assistant Professor*. Faculty, Behavioral Science; B.A., Spanish, B.S., Behavioral Science, Utah Valley University, Ph.D., Clinical Psychology, Brigham Young University.

ANDERSON, John (2007); *Professor*. Faculty, Information Systems & Technology; B.A., English, M.B.A., Strategy & Finance, University of Utah; Ph.D., Information Systems, Utah State University.

ANDERSON, Jonathan (2010); *Associate Professor*. Faculty, Developmental Mathematics; B.S., M.S., Electrical and Computer Engineering, Brigham Young University.

ANDERSON, Karin (1991); *Professor*. Faculty, English & Literature; B.A., English, Utah State University; M.A., English, Brigham Young University; Ph.D., Literary Theory and Creative Writing, University of Utah.

ANDRIST, Kathryn (2001); *Professor*. Faculty, Mathematics; B.S., M.S., Ph.D., Mathematics, Brigham Young University.

ARMSTRONG, Vaughn (2003); *Associate Professor*. Faculty, Finance & Economics; B.S., Mathematics, J.D., J. Reuben Clark College of Law, Brigham Young University; Ph.D., Finance, Arizona State University.

ASHMAN, Marinda (2007); *Associate Professor*. Faculty and Faculty, Student Leadership & Success Studies; B.S., Elementary Education, Brigham Young University; M.Ed., Health, Physical Education & Recreation, Utah State University.

ASHCRAFT, Carrie (2018); *Lecturer*. Faculty, Secondary Education; BA, English, Boise State University; M.Ed., Education, Westminster College;

ARENDT, Anne (2018); *Associate Professor*. Department Chair and Faculty, Technology Management; BA, University of Minnesota; MS, Walden University; MBA, Information Systems, University of Minnesota Carlson School; EdD, Utah State University

ANDRADE, Maureen (2018); *Professor*. Faculty, Organizational Leadership; BA, English, Brigham Young University - Provo; MA, English, University of Utah; EdD, Higher Education Leadership, University of Southern California, Los Angeles

ANDERSEN, Richelle (2018); *Lecturer*. Faculty, Marketing; BA, English, Brigham Young University; MA, College Student Personnel; MA, Guidance & Counseling, Bowling Green State University

AL-NSOUR, Rawan (2018); *Assistant Professor*. Faculty, Engineering Technology; BS Mechanical Engineering Jordan University of Science & Technology; M.Sc., Industrial Engineering, University of Jordan; PhD, Mechanical/Nuclear Engineering, Virginia Commonwealth University

ALLEN, Jordan (2018); *Assistant Professor*. Faculty, Communication; B.A., Psychology, M.A., Communication Studies, University of Montana; Ph.D. (ABD), Communication Studies, University of Nebraska - Lincoln.

ADAMS, Lynn (2018); *Associate Professor*. Faculty, Strategic Management & Operations; BS, Math/Science, Brigham Young University - Provo; MBA, Business Administration, Westminster College; PhD, Organizational Leadership, University of Phoenix.

B

BACKUS, Ellen (2002); *Associate Professor*. Faculty, Developmental Mathematics; A.A., General Education, B.A., Math Education, M.A., Mathematics, Brigham Young University.

BAGLEY, Katie (2013); *Assistant Professor*. Faculty, Nursing; A.S.N., B.S., Nursing, Utah Valley University; M.S.N., Teaching Nursing, University of Utah.

BAILEY, Brooke (2014); *Lecturer*. Faculty, English Language Learning; B.A., Linguistics, Brigham Young University; M.Ed., ESL Curriculum & Instruction, Concordia University.

BAILEY, James (2009); *Professor*. Faculty, Accounting; B.S., Finance, Brigham Young University; B.S., Accounting, M.B.A., University of Utah; Ph.D., Business (Accountancy), University of Nebraska-Lincoln.

BAIRD, Deborah (1993); *Associate Professor*. Faculty, Marketing; B.A., M.B.A. (Economics), Brigham Young University; Ed.D., Education, Utah State University.

BAIRD, Kellan (1998); *Associate Professor*. Faculty, Construction Technologies; B.S., Industrial Education, Brigham Young University.

BALL, Nicholas (2014); *Associate Professor*. Faculty, Information Systems & Technology; B.A., Finance, M.B.A., Idaho State University; Ph.D., Information & Decision Sciences, University of Minnesota.

BANCHERO-KELLEHER, Angela (2006); *Associate Professor*. Faculty, Dance; B.A., History; M.F.A., Dance, University of Utah.

BARKER, David (2015); *Assistant Professor*. Faculty, Engineering Design Technology; A.S., Pre-Architecture, Ricks College; B.S., Architecture, M-Arch, University of Utah.

BARLOW, Amy (2015); *Lecturer*. Faculty, English Language Learning; B.A., Spanish, M.A., Teaching English, Brigham Young University.

BARTHEL, Brian (1998); *Associate Professor*. Faculty, Public & Community Health; B.S., M.S., Health Science/Community Health, Brigham Young University; Ph.D., Health Education, Southern Illinois University.

- BARTHOLOMEW, Aaron** (2007); *Assistant Professor*. Faculty, Accounting; B.A., Communication, J.D., Brigham Young University.
- BARTHOLOMEW, Kimberly** (1994); *Associate Professor*. Faculty, Information Systems & Technology; B.S., M.S., Computer Science, Brigham Young University; Ph.D., Computer Technology in Education, Nova Southeastern University.
- BAYER, Virginia** (2000); *Associate Professor*. Faculty and Faculty, Biology; B.S., Biological Science, B.A., Classical Languages, University of California, Irvine; Ph.D., Medical Sciences-Neuroscience, Cornell University Graduate School of Medical Science; D.V.M., Cornell University College of Veterinary Medicine.
- BEAN, Ben** (1990); *Professor*. Faculty, Accounting; B.S., Business Management, M.B.A., Accounting Emphasis, University of Utah.
- BEAN, Paul** (1997); *Associate Professor*. Faculty, Automotive Technology; B.S., Industrial Education, Brigham Young University; M.Ed., Instructional Technology, Utah State University.
- BEENE, Lara** (2014); *Assistant Professor*. Faculty, Theatrical Arts for Stage & Screen; B.A., Theater Arts, Brigham Young University; MFA, Costume Design, Brigham Young University.
- BEMEL, James** (2010); *Associate Professor*. Faculty, Public & Community Health; B.S., Health Promotion, Weber State University; M.S., Public Health/Health Services Administration, Ph.D., Health Promotion & Education, University of Utah.
- BENDER, Melinda** (1998); *Professor*. Faculty, Literacies & Composition; B.S., Speech Communication, M.A.I.S., Communication and Human Development, Oregon State University.
- BENNETT, Lyn** (1996); *Professor*. Faculty, History & Political Science; B.A., History, B.A., Anthropology, M.S.E., Curriculum and Instruction, Ph.D., History, University of Kansas.
- BENNETT, Sean** (2010); *Associate Professor*. Faculty, Nursing; M.S., Nursing, University of Phoenix.
- BENTLEY, Jan** (1999); *Associate Professor*. Faculty, Information Systems & Technology; B.S., Marketing and Distributive Education, Brigham Young University; M.S., Business Information Systems and Education, Utah State University.
- BETRIDGE, Amy** (2013); *Lecturer*. Faculty, Marketing; B.A., International Relations, Brigham Young University; M.S., Business, Utah State University.
- BEZZANT, Howard** (2008); *Associate Professor*. Faculty, Engineering Design Technology; A.A.S., Drafting and Design Technology, Utah Technical College; B.S., Technology and Industrial Education, Utah State University; M.Ed., Instructional Technology and Learning Sciences.
- BHATTACHARJEE, Debanjan** (2011); *Associate Professor*. Faculty, Mathematics; B.S., M.S., Statistics, University of Calcutta, Ph.D., Statistics, University of Connecticut.
- BI, Rachel** (2014); *Assistant Professor*. Faculty, Finance & Economics; B.S., Management of Information Systems, Dalian Maritime University; M.S., Personal Financial Planning; M.B.A., Finance; Ph.D., Texas Tech University.
- BIBBY, Andrew** (2015); *Assistant Professor*. Faculty, History & Political Science; B.A., Honors English, Concordia University; Ph.D., Political Science, Michigan State University.
- BIRCH, Brian** (1999); *Professor*. Faculty, Philosophy & Humanities; Coordinator, Religious Studies, Interdisciplinary Studies Program; M.S., Philosophy, University of Utah; Ph.D., Philosophy of Religion & Theology, Claremont Graduate University.
- BIRD, M.** (2015); *Assistant Professor*. Faculty, Engineering Technology; A.A.S., Electrical and Automation, Utah Valley University; B.S., Electrical Engineering, Brigham Young University; M.Engr., Electrical Engineering, University of Idaho
- BLACK, Katherine** (2005); *Associate Professor*. Faculty, Accounting; B.S., Accounting, M.Acc., Taxation, Utah State University; J.D., UC Davis School of Law; LL.M., Taxation, McGeorge School of Law.
- BLACKHURST, Kelvyn** (2003); *Associate Professor*. Faculty, Automotive Technology; A.A.S., Diesel and Heavy Duty Mechanics, Utah Valley State College.
- BLEVINS, Maria** (2013); *Assistant Professor*. Faculty, Communication; B.S., Recreation Management, University of Maine at Machias; M.A., Organizational Communications, University of Montana; Ph.D., Speech Communication, University of Utah.
- BOAM, Dale** (2006); *Associate Professor*. Faculty, Languages & Cultures; B.A., Sociology, University of Utah; J.D., Disability Law & Policies, Northeastern University School of Law
- BODEN, Jeremy** (2010); *Assistant Professor*. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; M.S., Marriage and Family Therapy, Loma Linda University; Ph.D., Human Development & Family Studies, Texas Tech University.
- BOGGESE, Cris** (1999); *Associate Professor*. Faculty, Automotive Technology; AAS, Collision Repair Technology, Utah Valley University
- BOHL, Dean** (2001); *Associate Professor*. Faculty, Automotive Technology; A.A.S., Diesel Equipment Technology, Utah Valley State College.
- BOHNE, Michael** (2007); *Professor*. Department Chair and Faculty, Exercise Science & Outdoor Recreation; B.S., Physical Education, M.S., Exercise Science, Utah State University; Ph.D., Sport & Exercise Science, University of Northern Colorado.
- BOND, Calvin** (2001); *Associate Professor*. Faculty, Chemistry; B.S., Chemistry, Ph.D., Environmental and Analytical Chemistry, University of Maryland.
- BORCHELT, Mark** (2008); *Associate Professor*. Faculty, Dance; B.S., Psychology (Magna Cum Laude), M.F.A., Ballet, University of Utah.
- BORNS, Renee** (2011); *Associate Professor*. Faculty, Student Leadership & Success Studies; B.A., Public Administration, University of Central Florida; M.S., Higher Education Administration, Florida State University; Ph.D., Higher Education Administration, Bowling Green State University.
- BOTT, Laurie** (2011); *Professional in Residence*. Faculty, Marketing; B.S., Communications, Utah Valley University; MBA, Business Administration, Utah Valley University
- BOYER, Bret** (2007); *Associate Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Sports Medicine, M.A., Health, Brigham Young University; D.P.T., Physical Therapy, Creighton University.
- BRACKEN, Mark** (1997); *Associate Professor*. Faculty, Biology; B.S. Zoology, Emphasis in Physiology; Ph.D., Exercise Physiology, Brigham Young University.
- BRADFORD, Joel** (1993); *Associate Professor*. Faculty, Earth Science; B.S., Vocational Education, Southern Illinois University; M.S., Cultural Anthropology, University of Utah.
- BRADSHAW, James** (2013); *Lecturer*. Faculty, Biology; B.S., Biochemistry & Cell Biology, University of California-San Diego; Ph.D., Physiology & Developmental Biology, Brigham Young University.
- BRADSHAW, Laurel** (2012); *Assistant Professor*. Faculty, Nursing; B.S., Nursing, Brigham Young University; M.S.N., Nursing, Utah Valley University; DNP, University of Health Professions.
- BRANDT, Lorilynn** (2009); *Associate Professor*. Faculty, Elementary Education; B.S., Elementary Education, M.Ed., Reading and Literacy, Brigham Young University; Ph.D., Curriculum and Instruction, Utah State University.
- BRETON, Brett** (2015); *Assistant Professor*. Faculty, Behavioral Science; A.S., Aviation & Air Traffic Control, Mount San Antonio College; B.S., Psychology, M.S., Counseling & School Psychology, Ph.D., Psychology, Brigham Young University.
- BRETZ, Thomas** (2016); *Assistant Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy/Ethics, Dresden University of Technology; M.A., Philosophy, The New School for Social Research; Ph.D., Philosophy, Loyola University.
- BRINKERHOFF, Mary** (2008); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, Weber State University; M.S., Mathematics, University of Utah.
- BRISCOE, Gregory** (2002); *Associate Professor*. Faculty, Languages & Cultures; B.A., Spanish, Utah State University; M.A., Spanish, University of California, Berkeley; Ph.D., Spanish, University of Pennsylvania.
- BROOME, Rodger** (2010); *Assistant Professor*. Faculty, Emergency Services; A.S., Psychology, B.S., Psychology, Utah Valley University; M.A., Ph.D., Psychology, Saybrook University.
- BROWN, Clayton** (2006); *Associate Professor*. Faculty, Developmental Mathematics; B.A., Mathematics Education, Brigham Young University; M.A., Teachers of Mathematics, Central Washington University.
- BROWN, Kim** (2008); *Associate Professor*. Faculty, Digital Media; B.S., Business Education/Administrative Systems, M.Ed., Instructional Technology, Utah State University.
- BROWN, Marc** (2014); *Professional in Residence*. Faculty, Organizational Leadership; A.S., Business Management, Utah Valley University; B.A., Management, M.B.A., Finance & Accounting, University of Utah;

Administration and Faculty

BROWN, Mary (2006); *Associate Professor*. Faculty, Public & Community Health; B.S., M.S., Community Health, Brigham Young University; Ph.D., Health Promotion & Education, University of Utah.

BRUNGER, Candice (2017); *Assistant Professor*. Faculty, Nursing; A.D.N., Nursing, Utah Valley University; B.S.N., Nursing, Brigham Young University-Idaho; M.S.N., Nursing, Weber State University.

BULE, Steve (1999); *Professor*. Faculty, Art & Design; B.A., Italian & Art History, Brigham Young University; Ph.D., Art History, Ohio State University.

BUNDS, Michael (2001); *Associate Professor*. Department Chair and Faculty, Earth Science; B.A., Geological Sciences, University of California, Santa Barbara; M.S., Geology, University of California, Davis; Ph.D., Geology (Geochemistry, Structural Geology), University of Utah.

BYBEE, Paul (1994); *Professor*. Faculty, Biology; A.S., General Science, B.S., Zoology/Botany/Geology, Weber State University; M.S., Ecology, Ph.D., Zoology (Comparative Evolutionary Biology, Vertebrate Paleontology), Brigham Young University.

BYE, Colleen (2011); *Assistant Professor*. Faculty, Developmental Mathematics; B.A., Pure Mathematics, M.A., Mathematics, California State University.

BYRD, Elaine (1992); *Professor*. Faculty, Elementary Education; B.S., Social Work, Ed.D., Teacher Education/Literacy, Brigham Young University; M.A., Education/Reading Specialist, Hood College, Maryland

BYRNES, Andrew (2008); *Associate Professor*. Faculty, Emergency Services; A.A.S., Fire Science, B.S., Public Emergency Services Management, Utah Valley University; M.Ed., Instructional Technology, Utah State University.

BRINKERHOFF, Colin (2018); *Lecturer*. Faculty, Mathematics; BS, Mathematics, Brigham Young University - Provo; MS, Mathematics, Brigham Young University

BENNION, Anna (2018); *Lecturer*. Faculty, English & Literature; BA, English, Brigham Young University; MA, British Literature, Brigham Young University; PhD (ABD), 19th Century British Literature, University of South Carolina

BROOKS, Lauren (2018); *Assistant Professor*. Faculty, Biology; B.S., Environmental Science, Marshall University; M.S., Environmental Science, Yale School of Environmental Studies; Ph.D., Microbiology, Oregon State University.

C

CADET, Eddy (1993); *Associate Professor*. Faculty, Earth Science; B.S., Biology, University of Illinois; M.S., Environmental Sciences, Ph.D., Integrative Biological Sciences, Tuskegee University; Licensed Environmental Health Scientist (Utah); Registered Environmental Health Specialist (REHS).

CAKA, Fern (2001); *Associate Professor*. Department Chair and Faculty, Chemistry; B.A., Chemistry, M.S., Ph.D., Analytical Chemistry, Brigham Young University.

CALDIERO, Alex (2002); *Senior Artist in Residence*. Faculty, Philosophy & Humanities; Artist in Residence/ No degree

CALISKAN, Cenk (2009); *Associate Professor*. Faculty, Strategic Management & Operations; B.S., Industrial Engineering, Bilkent University; M.S., Ph.D., Industrial and Systems Engineering, University of California-Los Angeles.

CALLISON, James (1994); *Associate Professor*. Faculty, Earth Science; B.S., Biology, Southern Utah University, M.S., Range Science, Brigham Young University; Ph.D., Watershed Management, University of Arizona.

CAMPBELL, Monica (2010); *Assistant Professor*. Faculty, Dance; B.F.A., M.F.A., Modern Dance, University of Utah.

CARD, Arlen (2009); *Associate Professor*. Department Chair and Faculty, Digital Media; B.M.A., M.M., Brigham Young University; J.D., J. Reuben Clark Law School.

CARLTON, Gaya (1991); *Professor*. Faculty, Nursing; A.S., Nursing, Weber State College; B.S., Nursing, M.S., Nursing, University of Utah; Ph.D., Nursing, University of Colorado.

CARNEY, Rob (1997); *Professor*. Faculty, English & Literature; B.A., English, Pacific Lutheran University; M.F.A., Creative Writing-Poetry, Eastern Washington University; Ph.D., English, University of Louisiana - Lafayette.

CARTER, Angie (2010); *Lecturer*. Faculty, English & Literature; B.A., M.A., English, Brigham Young University.

CHAKRAVARTY, Debjani (2015); *Assistant Professor*. Faculty, Behavioral Science; B.com, Accountancy & Business Economics, University of Calcutta; M.A.,

M.Phil., Sociology, University of Purdue; Ph.D., Gender Studies, Arizona State University.

CHAMBERLAIN, Cory (2008); *Associate Professor*. Faculty, Aviation Science; A.A.S., Aviation Maintenance Technology, Utah Technical College; B.S., Psychology, University of Utah; Master of Aeronautical Science, Embry-Riddle Aeronautical University.

CHAMBERLAND, Stephen (2015); *Assistant Professor*. Faculty, Chemistry; B.S., Biochemistry, Boston College; Ph.D., Organic Chemistry, University of California, Irvine.

CHAN, Leo (2008); *Associate Professor*. Faculty, Finance & Economics; B.A., Ph.D., Economics, University of Kansas.

CHANG, Kuo-Liang (2011); *Associate Professor*. Faculty, Developmental Mathematics; B.B.A., Information Management, M.A., Philosophy, Fu-Jen Catholic University, Taiwan; M.S., Applied Math, Ph.D., Math Education, Michigan State University.

CHAPARRO, Ana (2010); *Lecturer*. Faculty, Languages & Cultures; B.A., Spanish Translation, M.A., Spanish Peninsular Literature, Brigham Young University.

CHAPMAN, Jared (2011); *Assistant Professor*. Faculty, Organizational Leadership; B.A., Recreational Management & Youth Leadership, M.B.A., Ph.D., Applied Social Psychology, Brigham Young University; M.S., Instructional Technology, Utah State University.

CHAU, Cheung (2012); *Associate Professor*. Faculty, Music; B.M., Cello Performance, Harid Conservatory, M.M., Cello Performance, Yale School of Music; D.M.A., Cello Performance and Wind Ensemble Conducting, New England Conservatory.

CHEN, Hsiu-Chin (2004); *Professor*. Faculty, Nursing; B.S.N., Chung Shan Medical University; M.S., Nursing, Kaohsiung Medical University; Ph.D., Nursing, University of Utah; EdD Educational Administration, University of South Dakota.

CHENEY, Paul (2008); *Associate Professor*. Faculty, Digital Media; A.A., General Education, Ricks College; B.S., Elementary Education, Brigham Young University; M.S., Instructional Technology, Utah State University; Ph.D., Instructional Technology, University of Virginia.

CHO, Richard (2015); *Lecturer*. Faculty, History & Political Science; B.A., Ph.D., Political Science, Stony Brook; M.A., Political Psychology, Columbia University.

CHOU, Grace (2002); *Professor*. Faculty, Behavioral Science; B.A., Sociology, National Taiwan University; M.A., Ph.D., Sociology, University of California, Riverside.

CHRISTENSEN, Tammy (2013); *Lecturer*. Faculty, Languages & Cultures; B.A., M.A., French Studies, Brigham Young University.

CIESLEWICZ, Joshua (2010); *Associate Professor*. Faculty, Accounting; B.S., M.Acc., Accounting, Brigham Young University; Ph.D., International Management, specialization in Accounting, University of Hawaii.

CLARK, Christopher (2006); *Associate Professor*. Faculty and Faculty, Theatrical Arts for Stage & Screen; M.F.A., Directing Shakespeare, University of Exeter, Devonshire, England.

CLARKE, Alan (2003); *Professor*. Faculty, Integrated Studies; LL.M., Human Rights Law, Queen's University, Kingston, Ontario; J.D., College of William and Mary; Ph.D., York University.

CLAYTON, Marty (2012); *Assistant Professor*. Faculty, Digital Media; B.S., Landscape Architecture, The Ohio State University; M.F.A., Animation, The Savannah College of Art & Design.

COCKERHAM, Geoffrey (2007); *Associate Professor*. Faculty, History & Political Science; B.A., Political Science, University of Illinois; M.A., Ph.D., Political Science, University of Arizona; J.D., Louisiana State University

COLD, S. (1991); *Associate Professor*. Faculty, Information Systems & Technology; B.S., Physical Plant Administration, Brigham Young University; M.B.A., University of Nebraska; Ph.D., Technology Management (Digital Communication Systems), Indiana State University.

COLE, Joy (2016); *Assistant Professor*. Faculty, Nursing; B.S., Educational Psychology, University of Central Oklahoma; M.S.N., Nursing Education, University of Oklahoma; D.N.S. (ABD), Nursing Education, University of Northern Colorado.

COLLEDGE, Jacqueline (2000); *Lecturer*. Faculty, Dance; Performance Artist.

CONAWAY, Teresa (2013); *Assistant Professor*. Faculty, Organizational Leadership; B.A., Political Science, Pikeville College; M.S., Information Systems,

University of Tennessee; M.Ed., Student Personnel in Higher Education, Virginia Tech; JD, Law, Penn State.

CONDIE, Heidi (2001); *Associate Professor*. Faculty, English Language Learning; B.A., German Literature, Brigham Young University; M.A., Linguistics, University of Utah.

COTTLE, Nathan (2012); *Associate Professor*. Faculty, Behavioral Science; B.S., Family Science and Human Development, M.S., Marriage, Family & Human Development, Brigham Young University; Ph.D., Human Development and Family Sciences, University of Texas.

COUSINS, Robert (1998); *Professor*. Faculty, English & Literature; B.A., Humanities, Brigham Young University; M.A., Ph.D., American Studies, Purdue University.

COX, James (2009); *Associate Professor*. Faculty, Construction Technologies; A.S., Physics, Carbon Jr. College; Bachelor of Engineering Science in Civil Engineering, Mathematics, M.E., Transportation, Brigham Young University; Ph.D., Transportation, University of Utah.

COX, Susan (2007); *Associate Professor*. Faculty, Secondary Education; B.A., Spanish, M.S., Ph.D., Instructional Psychology & Technology, Brigham Young University.

COX, Vaughn (2011); *Professional in Residence*. Faculty, Finance & Economics; B.S., M.B.A., Finance, University of Utah; Ph.D., Financial Management, University of Utah.

CRABB, Amanda (2015); *Assistant Professor*. Faculty, Theatrical Arts for Stage & Screen; B.A., Theater Education, B.F.A., Music Dance Theater, Brigham Young University; M.M., Music, Boston Conservatory of Music.

CRANDALL, Kodey (2014); *Lecturer*. Faculty, Information Systems & Technology; B.S., Business Management, Utah Valley University; M.S., Instructional Technology, Utah State University.

CRANE, Mark (2002); *Associate Professor*. Faculty, English & Literature; B.S., English Literature, Brigham Young University; M.A., English Literature, Portland State University; Ph.D., Composition and Rhetoric, University of Louisville.

CRAVEN, Marianne (1995); *Professor*. ; B.S., Nursing, Brigham Young University; M.N., Nursing, University of Phoenix; Ph.D., Nursing, Indiana State University

CREER, Andrew (2008); *Associate Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Physical Education, Utah State University; M.S., Exercise Science, Brigham Young University; Ph.D., Human Bioenergetics, Ball State University.

CRIDDLE, Reed (2010); *Associate Professor*. Faculty, Music; B.A., Music, M.A., East Asian Studies, Stanford University; M.M., Conducting, Eastman School of Music; D.M.A., Choral Conducting, University of Michigan.

CLARK, Travis Lee (2018); *Lecturer*. Faculty, Art & Design; BA, Art History, Brigham Young University - Provo; MA, Art History & Curatorial Studies, Temple University; PhD, Art History, Temple University

CHADWICK, Tyler (2018); *Lecturer*. Faculty, English & Literature; BS, English, Weber State University; MS, English, National University; PhD, English Teaching, Idaho State University

CARLSON, Jane I. (2018); *Assistant Professor*. Faculty, Secondary Education; BS, Elementary/Special Education, Keene State College; MA, Psychology, SUNY at Stony Brook; PhD, Clinical Psychology, SUNY at Stony Brook

CALL, Jennifer (2018); *Lecturer*. Faculty, Secondary Education; AAS, Family Science, Brigham Young University - Idaho; BS, Interdisciplinary Studies, Texas A & M University; MS, Low Incidence Disabilities & Autism, Sam Houston State University

CICCONE, Anthony (2018); *Assistant Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Exercise Science, University of Minnesota Duluth; M.S., Kinesiology, California State University Fullerton; Ph.D. (ABD), Exercise Physiology, University of Kansas.

CUNNINGHAM, Ruthann (2018); *Assistant Professor*. Faculty, Public & Community Health; B.S., Fitness and Wellness Management, M.S., Exercise Science, Brigham Young University; Ph.D., Health Science, A.T. Still University

D

DAVIS, Ben (1994); *Associate Professor*. Faculty, Construction Technologies; B.S., Geography/Urban Planning, University of Utah; M.S., Instructional Technology, Utah State University.

DAVIS, Courtney (2007); *Assistant Professor*. Department Chair and Faculty, Art & Design; B.A., Art History, M.A., Art History & Curator Studies, J.D., Brigham Young University.

DE DIOS, Mari (2014); *Lecturer*. Faculty, Languages & Cultures; B.A., Psychology, Colombia College; M.B.A., Business, Stevens Henagar College.

DEAN, David (2007); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Computer Science, Brigham Young University; B.S., Mathematics, Utah Valley State College; M.S., Mathematics, University of Houston.

DEAN, Lukas (2014); *Associate Professor*. Faculty, Finance & Economics; B.A., M.S., Finance, Brigham Young University; Ph.D., Personal Finance, Texas Tech University.

DEBENHAM, Kathie (1991); *Professor*. Faculty, Dance; B.A., M.A., Physical Education/Dance, Brigham Young University; Certified Laban/Bartenieff Movement Analyst, University of Utah.

DEMSKE, Hilary (2009); *Associate Professor*. Faculty, Music; B.M., Piano Performance, The Peabody Conservatory of Music; M.M., Piano Performance, The Julliard School; Meisterklase Diploma, Munich Conservatory; D.M.A., Piano Performance, University of Michigan.

DESART, Jay (2004); *Associate Professor*. Faculty, History & Political Science; B.A., Political Science and International Relations, Concordia College; M.A., Ph.D., Political Science, University of Wisconsin-Milwaukee.

DEWITT, Robert (1986); *Professor*. Faculty, Art & Design; B.A., Art, M.A., Art History, M.F.A., Art/Painting, Brigham Young University.

DISHMAN, Paul (2009); *Associate Professor*. Department Chair, Marketing; Faculty, Business Graduate Programs; B.F.A., Theater, Trinity University; M.B.A., Marketing, North Texas State University; Ph.D., Marketing, University of North Texas.

DOMYAN, Eric (2015); *Assistant Professor*. Faculty, Biology; B.S., Biology, M.Ed., Education, Ohio State University; Ph.D., Philosophy, University of Wisconsin-Madison.

DONOHUE, Sarah (2015); *Assistant Professor*. Faculty, Dance; B.F.A., Dance, University of Arizona; M.F.A., Modern Dance, University of Utah.

DOUGLASS, Natalie (2016); *Assistant Professor*. Faculty, Music; B.A., B.M.E., Music Education, University of Iowa; M.M., Horn Performance, University of Illinois; D.M.A., Horn Performance, University of Cincinnati.

DRAPER, Christian (2010); *Lecturer*. Faculty, Physics; B.S., Physics/Astronomy, M.S., Physics, Brigham Young University.

DRAPER, Matthew (2008); *Professor*. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; M.A., Counseling, Ph.D., Counseling Psychology, University of Texas at Austin.

DUFFIN, Matthew (2008); *Associate Professor*. Department Chair, Criminal Justice/Law Enforcement; B.S., Business Management, J.D., Brigham Young University; LL.M., Military/International Contracts Law, United States Army Judge Advocate General's School.

DURNEY, Brian (2001); *Associate Professor*. Faculty, Computer Science; B.S., Computer Science, University of Utah; M.S., Computer Science, Stanford University; Ph.D., Computer Science, University of Oregon.

DUTTAGUPTA, Chitrlekha (2008); *Associate Professor*. Faculty, Literacies & Composition; B.A., English, Calcutta University; M.A., Ph.D., English, Jadavpur University; MTESL (Master's in Teaching English as a Second Language), Ph.D., Rhetoric/Composition and Linguistics, Arizona State University.

DEVEY, Alyssa (2018); *Lecturer*. Faculty, Marketing; B.A., English Teaching, Brigham Young University; M.A., English, Brigham Young University.

DOGGETT, Dana (2018); *Lecturer*. Faculty, Computer Science; B.S., Electronics Engineering Technology, M.S., Computer Science, Brigham Young University - Provo.

DRAPER, Shane (2018); *Assistant Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Recreation Management, Brigham Young University; M.Ed., Exercise Science, Cleveland State University; Ph.D. (ABD), Exercise Science, Kent State University.

DE NESNERA, Kristin (2018); *Assistant Professor*. Faculty, Biology; B.S., Biology, The College of William and Mary; Ph.D., Ecology and Evolutionary Biology.

E

ECKTON, Darin (2011); *Associate Professor*. Faculty, Student Leadership & Success Studies; B.A., Spanish Teaching/Physical Education Coaching, M.S., Sociology, Ed.D., Educational Leadership & Foundations, Brigham Young University.

Administration and Faculty

EGGERTSEN, Lars (2008); *Associate Professor*. Faculty, Behavioral Science; B.S., Family Science, Brigham Young University; M.S.W., Loma Linda University; Ph.D., Social Work, University of Utah.

EL EZZI, Asmahan (2009); *Professor*. Faculty, Chemistry; B.S., Chemistry, AL-Fateh University, Tripoli, Libya; Ph.D., Biological Chemistry, Rennes I University, Rennes, France.

EL SAIDI, Mohammed (2008); *Professor*. Faculty, Strategic Management & Operations; B.Sc., Applied Mathematics and Education, M.A., Applied Mathematics and Psychology, B.Sc., Pure Mathematics, The University of Tanta; M.Sc., Mathematical Statistics, University of Iowa; Ph.D., Mathematics, University of Memphis; Management Development Program Certificate, Harvard Graduate School of Education, Harvard University.

ELDRIDGE, Bryan (1998); *Professor*. Faculty, Languages & Cultures; Coordinator, Deaf Studies, Interdisciplinary Studies Program; B.A., English, M.A., Linguistics, Brigham Young University; Ph.D., Linguistic Anthropology, University of Iowa.

ELEM, Reid (2015); *Assistant Professor*. Faculty, Art & Design; B.A., Computer Art, State University of New York at Oneonta; M.F.A., Photography, Savannah College of Art & Design.

ENGLAND, Lynn (2007); *Lecturer*. Faculty, History & Political Science; B.A., M.A., Philosophy, University of Utah; Ph.D., Sociology, University of Pittsburg.

ENGLEHARDT, Elaine (1980); *Distinguished Professor*. Faculty, Philosophy & Humanities; B.A., Journalism, M.A., Communications, Brigham Young University; Ph.D., Communications, University of Utah.

ERDMANN, DeWayne (1999); *Associate Professor*. Faculty, Construction Technologies; B.S., Industrial Education, Brigham Young University.

ESCALANTE, Debora (2009); *Associate Professor*. Faculty, Elementary Education; B.A., Theatre and Cinematic Arts, M.A., Theatre, Brigham Young University; Ph.D., Instructional Technology, Utah State University.

ESMAY, Rodayne (2003); *Professor*. Faculty, Digital Media; B.S., Art, Brigham Young University; M.F.A., Illustration, Syracuse University.

EVJEN, Benjamin (2016); *Assistant Professor*. Faculty, Art & Design; B.F.A., Graphic Design, Utah State University; M.F.A., Design & Visual Communications, Commonwealth University.

EYRAUD, Kevin (2001); *Associate Professor*. Faculty, English Language Learning; B.A., Spanish, B.A., Liberal Arts and Sciences, Utah State University; M.A., Teaching English as a Second Language, Northern Arizona University.

ESKELSON, Max (2017); *Assistant Professor*. Faculty, Allied Health; B.B.A., Business Administration, Salt Lake Community College; M.H.C.A., Health Care Administration, University of Phoenix.

F

FAIRBANKS, Donna (2005); *Professor*. Department Chair and Faculty, Music; B.M., Violin Performance, Brigham Young University; M.M., Violin Performance, University of Rochester New York; D.M.A., Violin Performance, University of Arizona, Tucson.

FALLIS, Diana (1998); *Associate Professor*. Faculty, Culinary Arts Institute; A.A.S., Culinary Arts, Utah Valley University.

FARNSWORTH, F. Jr. (1972); *Professor*. Faculty, History & Political Science; B.A., Asian Studies, M.A., International Administration, Brigham Young University; M.Phil., Educational Leadership and Policy, University of Utah.

FARNWORTH, Xanthe (2016); *Lecturer*. Faculty, Marketing; B.A., English, M.A., Rhetoric & Communication, Brigham Young University.

FAUROT, Don (2002); *Associate Professor*. Faculty, Mathematics; B.S., Engineering, UCLA; M.S., Mathematics, California State University-Northridge; Ph.D., Mathematics, University of Oregon.

FAUROT, Vivienne (2009); *Associate Professor*. Faculty, Mathematics; B.A., Mathematics, University of California; M.S., Mathematics, California Polytechnic State University; Ph.D., Curriculum and Instruction, University of Oregon.

FEARNLEY, David (2000); *Professor*. Faculty, Mathematics; B.S., M.S., Ph.D., Mathematics, University of Oxford.

FEDECZKO, Wioleta (2011); *Associate Professor*. Faculty, English & Literature; B.A., English, University of Idaho; M.S., English, Towson University; Ph.D., English, Miami University.

FERREIRA, Debora (2001); *Professor*. Faculty, Languages & Cultures; B.A., Language and Literature, Universidade Federal de Pernambuco, Recife, Brazil; M.A., Ph.D., Romance Languages, University of Georgia.

FISHER, James (2014); *Lecturer*. Faculty, Communication; B.S., University Studies, University of New Mexico; M.A., Journalism, University of Missouri-Columbia; Ph.D. (ABD), Journalism, University of Utah;

FISHER, John (2010); *Associate Professor*. Faculty, Emergency Services; B.A., French and Journalism, M.A., Communications, Brigham Young University; Ph.D., Educational Administration, University of Alberta.

FLINT, Matthew (2010); *Associate Professor*. Faculty, Public & Community Health; B.S., Spanish, Brigham Young University, M.H.Ed., Brigham Young University; Ph.D., Health Education/Health Promotion, Oregon State University.

FLOOD, Sara (2015); *Assistant Professor*. Faculty, Biology; B.S., Biology, The University of Guelph, Ontario, Canada; M.ForSci., Ph.D., Anatomy, Physiology, Biology, The University of Western Australia;

FRANCOM, Kenneth (2017); *Assistant Professor*. Faculty, Culinary Arts; A.A.S., Culinary Arts, Utah Valley University; B.A., Finance, Brigham Young University - Provo;

FRANZ, Reinhard (2014); *Associate Professor*. Faculty, Mathematics; B.S., M.S., Ph.D., Mathematics, Universitat Bielefeld.

FRAUGHTON, Travis (2016); *Lecturer*. Faculty, Engineering Technology; A.A.S., Electrical Automation & Robotic Technology, Utah Valley Community College.

FRY, Gareth (2015); *Lecturer*. Faculty, Art & Design; B.A., Graphic Design, Surrey Institute of Art & Design.

FULLMER, Howard (2010); *Associate Professor*. Faculty, Art & Design; B.F.A., Illustration, Brigham Young University; M.F.A., Vermont College.

FULLMER, Stephen (1996); *Associate Professor*. Faculty, English & Literature; A.S., English, Utah Valley State College; B.A., M.A., English, Brigham Young University; Ph.D., Leadership & Organizational Change, Brigham Young University.

FAWCETT, Elizabeth (2018); *Assistant Professor*. Faculty, Behavioral Science; B.S., Psychology, M.S., Marriage & Family Therapy, Ph.D., Marriage, Family & Human Development, Brigham Young University - Provo.

FEARNLEY, Lawrence (2018); *Visiting Scholar Lecturer*. Faculty, Mathematics; Ph.D., University of Utah London University.

G

GALE, Nathan (2015); *Assistant Professor*. Faculty, English & Literature; B.A., Texas State University; M.A., University of Northern Iowa; Ph.D., Rhetoric & Writing, University of Texas at Arlington.

GARCIA, Elena (2013); *Assistant Professor*. Faculty, Literacies & Composition; B.A., M.A., English, Western Michigan University; Ph.D., Rhetoric and Writing, Michigan State University.

GARDINER, S. (2012); *Assistant Professor*. Faculty, Marketing; B.A., Political Science, Brigham Young University; M.B.A., Brigham Young University; EdD.

GARDNER, Douglas (2008); *Associate Professor*. Faculty, Student Leadership & Success Studies; A.A., Psychology, Brigham Young University-Idaho; B.S., Family and Human Development, Brigham Young University; M.A., Education, California State University, Bakersfield; Ph.D., Education, University of Illinois at Urbana-Champaign.

GAZDIK, Michaela (2016); *Associate Professor*. Faculty, Biology; B.S., Biotechnology, Rutgers University; M.S., Ph.D., Biomedical sciences, State University of New York-Albany.

GERBER, Lindsey (2013); *Assistant Professor*. Faculty, Developmental Mathematics; B.S., M.S., Mathematics, Tarleton State University; Ph.D., Mathematics, Texas State University.

GIBSON, Stephen (2001); *Associate Professor*. Faculty, English & Literature; B.A., English, Brigham Young University; M.A., Creative Writing and Literature, Purdue University; Ph.D., Creative Writing and Literature, University of Houston.

GLENN, Lowell (1999); *Associate Professor*. Department Chair, Finance & Economics; Faculty, Business Graduate Programs; B.S., Public Administration/Political Science, M.B.A., Brigham Young University; Ph.D., Economics, The George Washington University.

GODDARD, Todd (2013); *Assistant Professor*. Faculty, English & Literature; B.A., English & American Literature; M.A., English, University of Wisconsin; J.D., University of Connecticut; Ph.D., English, University of Wisconsin.

- GOLDEN, Elizabeth** (2017); *Lecturer*. Faculty, Theatrical Arts for Stage & Screen; B.S., Theater Arts, Utah Valley University; M.F.A., Acting, Birmingham School of Acting.
- GOODE, Michael** (2013); *Assistant Professor*. Faculty, History & Political Science; B.A., Business Administration, Goshen College; M.A., Ph.D., History, University of Illinois at Chicago.
- GOODWIN, Benjamin** (2014); *Lecturer*. Faculty, Literacies & Composition; B.A., English Studies, Elon University; M.A., Rhetoric & Communication, Michigan State University.
- GORDON, Philip** (1999); *Associate Professor*. Faculty, Communication; B.A., M.A., Ph.D., Speech Communications, University of Illinois.
- GORELICK, Nathan** (2010); *Assistant Professor*. Faculty, English & Literature; B.A., Sociology, New York University; M.A., Ph.D., Comparative Literature, State University of New York, Buffalo.
- GOSHERT, John** (2001); *Professor*. Faculty, English & Literature; Coordinator, Interdisciplinary Studies, Interdisciplinary Studies Program; B.S., M.A., English, Sonoma State University; Ph.D., English, Purdue University.
- GOSLIN, Christopher** (2007); *Associate Professor*. Department Chair, Student Leadership & Success Studies; B.A., Communication, M.Ed., Southern Utah University; Ph.D., Instructional Leadership & Academic Curriculum, University of Oklahoma.
- GOUGH, Vance** (2014); *Assistant Professor*. Faculty, Strategic Management & Operations; B.A., Political Science, M.B.A., Business Administration/Management; Ed.D., Education, University of Calgary, Alberta.
- GRAY, Heather** (2013); *Lecturer*. Faculty, Dance; Performance Artist.
- GRIFFIN, Rick** (2003); *Associate Professor*. Faculty, History & Political Science; B.A., History; Ph.D., Education, Leadership, and Foundations, Brigham Young University; J.D., University of Mississippi.
- GUERRERO, Laura** (2013); *Assistant Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy, Willamette University; M.A., Philosophy, University of Hawaii; Ph.D. (ABD), Philosophy, University of New Mexico.
- GUNAWARDENA, Gamini** (1996); *Associate Professor*. Faculty, Chemistry; B.S., General Science, Ruhuna University; M.S., Chemistry, Bowling Green State University; Ph.D., Chemistry, University of Utah.
- GRIFFIN, Brigham K.** (2018); *Professional in Residence*. Faculty, Marketing; BA, Marketing Communication, Brigham Young University; MBA, Marketing, University of Utah
- GEARING, Nicole** (2018); *Assistant Professor*. Faculty, Elementary Education; B.A., Elementary Education, Thiel College; M.Ed., Curriculum and Instruction, Grand Canyon University; Ed.S., Early Childhood Education, University of West Georgia; Ph.D., Early Childhood and Elementary Education, Georgia State University.
- ## H
- HAGEN, Lisa** (2010); *Associate Professor*. Department Chair and Faculty, Theatrical Arts for Stage & Screen; B.A., Drama Performance, San Francisco State University; M.A., Playwriting, Boston University; Ph. D., Theatre History & Criticism; University of Colorado.
- HAGEN, W.** (2010); *Assistant Professor*. Faculty, Music; B.A., Music, Davidson College; M.M., Ph.D., Musicology, University of Colorado.
- HAISCH, Karl Jr.** (2004); *Professor*. Faculty, Physics; BS, Astrophysics; MS, Physics, Michigan State University; MS, Astronomy; PhD, Astronomy, University of Florida
- HALL, Sarah** (2015); *Assistant Professor*. Faculty, Public & Community Health; B.A., English, M.P.S., Public Administration, Brigham Young University; Ph.D., Global Health, Arizona State University.
- HALLING, Merrill** (2012); *Assistant Professor*. Faculty, Chemistry; B.S., Biochemistry, Brigham Young University; Ph.D., Physical Chemistry, University of Utah.
- HALLSTED, Barry** (2007); *Associate Professor*. Faculty, Construction Technologies; B.S., Youth Leadership & Scouting Education, Brigham Young University; M.B.A., Aspen University; Ph.D., Business Administration, Northcentral University.
- HAM, Young** (2012); *Associate Professor*. Faculty, Chemistry; M.S., Organic Chemistry, Hanyang University, Korea; Ph.D., Organic Chemistry, Purdue University.
- HAMDAN, Basil** (2015); *Assistant Professor*. Faculty, Information Systems & Technology; Faculty, Cybersecurity Graduate Programs; B.A., Accounting, M.B.A., MIS, East Carolina University; Ph.D., Information Systems, Virginia Commonwealth University.
- HAMIDI, Mohsen** (2012); *Assistant Professor*. Faculty, Strategic Management & Operations; B.S., M.S., Industrial Engineering, Sharif University of Technology, Iran; Ph.D., Industrial Engineering, North Dakota State University.
- HAMILTON, Carolyn** (1993); *Associate Professor*. Faculty, Strategic Management & Operations; B.S., Mathematics, Brigham Young University; M.S., Mathematics, University of California.
- HAMMOND, Ronald** (1992); *Professor*. Faculty, Behavioral Science; AS, Health Science, Brigham Young University - Idaho; B.S., Health Care Administration, Idaho State University; M.S., Health Education, Ph.D., Sociology/Family Studies, Brigham Young University.
- HANEWICZ, Cheryl** (2005); *Professor*. Faculty and Faculty, Technology Management; B.S., Individualized, M.A., Liberal Studies, Ed.D., Education in Educational Leadership, Eastern Michigan University.
- HANEWICZ, Wayne** (2004); *Professor*. Department Chair, Philosophy & Humanities; Faculty, Integrated Studies; B.S., M.S., Michigan State University; Ph.D., Political Theory and Philosophy majors, University of Michigan (Interdisciplinary).
- HANSEN, Jorgen** (2015); *Lecturer*. Faculty, Philosophy & Humanities; B.S., Philosophy, Utah Valley University; M.A., Philosophy, University of California, Riverside.
- HANSON, Kimberly** (2016); *Lecturer*. Faculty, Communication; AA, Interpersonal Communication, Ricks College; B.A., Communication & Rhetorical Studies, Idaho State University; M.A., Interpersonal Communication Studies.
- HARDIN, Chad** (2016); *Assistant Professor*. Faculty, Art & Design; B.S., Art Illustration, Southern Utah University; MFA, Illustration, Academy of Art University.
- HARDMAN, Jamie** (2015); *Lecturer*. Faculty, Languages & Cultures; A.A., American Sign Language, Salt Lake Community College, B.A., Deaf Studies, Utah Valley University, M.A., Deaf Studies/ Languages & Human Rights, Gallaudet University.
- HARPER, Michael** (2002); *Associate Professor*. Department Co-Chair and Faculty, Digital Media; B.A., M.S., Geography Education, Utah State University.
- HARRIS, James** (1986); *Professor*. Faculty, Biology; B.S., M.S., Botany, Brigham Young University; Ph.D., Botany, University of Alberta.
- HARRISON, Mark** (2016); *Lecturer*. Faculty, Marketing; B.A., English, M.A., Communication, Brigham Young University.
- HARRISON, Neil** (2005); *Professor*. Department Chair and Faculty, Computer Science; B.S., Computer Science, Brigham Young University; M.S., Computer Science, Purdue University; Ph.D., Computer Science, University of Groningen, Netherlands.
- HARROP-PURSER, Laurie** (2012); *Assistant Professor*. Faculty, Theatrical Arts for Stage & Screen; AA, Theatre Arts, Brigham Young University - Idaho; M.F.A., Acting, National Theatre Conservatory; B.A., Theatre Arts, Brigham Young University.
- HARSTON, Stott** (2000); *Associate Professor*. Faculty, Criminal Justice/Law Enforcement; AA, General Studies, American River College; B.A., Political Science, J.D., Brigham Young University.
- HART, Vern** (2017); *Assistant Professor*. Faculty, Physics; B.S., Physics, Brigham Young University; Ph.D., Physics, William Woods University.
- HASARA, Matthew** (2014); *Lecturer*. Faculty, Automotive Technology; B.S., Resource Management, Brigham Young University.
- HATCH, Daniel** (2016); *Assistant Professor*. Faculty, Digital Media; A.A., Graphic Design & Print, Utah Valley Community College; B.S., Graphic Design, Art Institute of Pittsburgh; M.F.A., Graphic Design, Vermong College of Fine Arts.
- HAWKES, Joshua** (2015); *Lecturer*. Faculty, Marketing; B.S., Business Management, M.B.A., Utah Valley University.
- HEATH, Melissa** (2014); *Assistant Professor*. Faculty, Music; B.M., Vocal Performance, Brigham Young University; M.M., D.M.A., vocal performance, University of Utah.
- HEHNLY, Marcy** (2014); *Assistant Professor*. Faculty, Criminal Justice/Law Enforcement; B.S., Criminal Justice, M.S., Human Resource Management, Troy University; Ph.D., Human Services, Cappella University.
- HEINY, Erik** (2008); *Associate Professor*. Faculty, Mathematics; B.S., Mathematics and Statistics, Colorado State University; M.S., Statistics, Michigan State University; Ph.D., Applied Statistics, University of Northern Colorado.
- HEITLINGER, Alex** (2015); *Assistant Professor*. Faculty, Music; B.M., Trombone Performance, University of Colorado, Boulder; M.M., Jazz Composition, New

Administration and Faculty

England Conservatory of Music; D.M.A., Music Composition, University of Texas at Austin.

HELDENBRAND, David (1992); *Professor*. Faculty, Computer Science; B.M.Ed., James Madison University; A.A., EDP Business, Montgomery College; M.S., Computer Science, Johns Hopkins University-Whiting School of Engineering.

HELQUIST, Joel (2007); *Associate Professor*. Faculty, Accounting; B.S., M.A., Accountancy, Brigham Young University; Ph.D., Management Information Systems, University of Arizona.

HENAGE, Richard (2017); *Associate Professor*. Faculty, Accounting; B.S., M.B.A., Speech Communication, Utah State University; Ph.D., Business Administration.

HENRY, Thomas (2008); *Associate Professor*. Faculty, Literacies & Composition; B.A., Creative Writing, M.A., English, Rhetoric and Composition, Northern Arizona University; Ph.D., Rhetoric and Technical Communication, Michigan Technological University.

HICKMAN, George (1996); *Associate Professor*. Faculty, Information Systems & Technology; B.F.A., Photography, Brigham Young University; M.S., Information Systems, San Diego State University.

HILL, Jessica (2012); *Assistant Professor*. Faculty, Behavioral Science; B.S., Psychology, Ph.D., Developmental Psychology, Florida State University; M.A., Visual Cognition and Human Performance, University of Illinois.

HILST, Joshua (2010); *Associate Professor*. Faculty, Literacies & Composition; B.A., English, The Master's College; M.A., English-Composition and Rhetoric, The Ohio State University; Ph.D., Rhetoric, Communication and Informational Design, Clemson University.

HOFHEINS, Nathan (2012); *Artist in Residence*. Faculty, Music; B.A., Music, M.M., Composition, Brigham Young University.

HOLLEY, Steve (2016); *Assistant Professor*. Faculty, Emergency Services; B.A., Economics, M.P.A., Public Administration, D.A. (ABD), Economics, Public Administration, Idaho State University.

HOLLISTER, Michael (2015); *Assistant Professor*. Faculty, Aviation Science; B.S., Aviation Professional Pilot, Utah Valley University; M.C.A., Commercial Aviation, Delta State University.

HOLM, Jeff (2016); *Presidential Faculty in Residence*. Faculty, Automotive Technology; No Degree.

HOOPER, Jennifer (2014); *Assistant Professor*. Faculty, Mathematics; B.A., Secondary Mathematics, Brigham Young University; M.A., Pure Mathematics, University of Utah; M.S., Mathematics University of Oregon; Ph.D., Mathematics Education, University of Georgia.

HOPOATE-SITAKE, Moana (2013); *Lecturer*. Faculty, Chemistry; B.S., Chemistry, Weber State University; Ph.D., Biochemistry, Brigham Young University.

HORN, Matthew (2002); *Associate Professor*. Faculty, Chemistry; B.A., Chemistry, Lawrence University; Ph.D., Chemistry, University of Chicago.

HOUGH, Colleen (2008); *Associate Professor*. Faculty, Biology; B.S., Biological Sciences, University of California, Irvine; M.S., Microbiology, Washington State University; Ph.D., Developmental and Cell Biology, University of California, Irvine.

HOUGHTON, Amie Balle (2016); *Assistant Professor*. Faculty, Criminal Justice/Law Enforcement; B.S., Biology; M.F.S., Forensic Science, George Washington University.

HOWARD, Carolyn (2005); *Associate Professor*. Faculty, Accounting; B.A., English, J.D., Brigham Young University.

HUFF, Steven (2012); *Associate Professor*. Faculty, Marketing; B.S., Computer Engineering, Utah State University; M.B.A., Ph.D., Business Administration, Brigham Young University.

HUFFMAN, Tammy (2010); *Associate Professor*. Faculty, Strategic Management & Operations; B.S., Management and Economics, Centre College of Kentucky; M.B.A., University of Tennessee Chattanooga; Ph.D., Business Administration, University of Kentucky.

HUNGERFORD, Hilary (2015); *Assistant Professor*. Faculty, Earth Science; B.A., Geography, University of Northern Colorado; M.A., Ph.D., Geography, University of Kansas.

HUNT, John (2012); *Assistant Professor*. Faculty, History & Political Science; B.A., History, Indiana University Southeast; M.A., Medieval and Renaissance History, University of Cincinnati; Ph.D., Early Modern Italian and European History, The Ohio State University.

HUO, Yang (2002); *Associate Professor*. Faculty, Organizational Leadership; B.S., Business Administration, Brigham Young University; M.S., Hotel Administration, University of Nevada; Ph.D., Hospitality and Tourism Management, Virginia Tech.

HURTADO, Isaac (2016); *Assistant Professor*. Faculty, Music; B.A., Voice Performance, Brigham Young University; M.M., Voice Performance, University of Cincinnati; D.M.A., Vocal Performance, Florida State University.

HARDING, R. Dustin (2018); *Assistant Professor*. Faculty, Marketing; MBA, Business Management, Marketing, Grenoble Ecole de Management; PhD (ABD), Business Administration, Marketing, Grenoble Ecole de Management

HAKALA, Tim (2018); *Assistant Professor*. Faculty, Engineering Technology; BS, Electrical & Computer Engineering, Brigham Young University - Provo; Meng, Electric Power Engineering, Rensselaer Polytechnic Institute; PhD, Mechanical Engineering, Brigham Young University - Provo

I

ILIEVA, Vessela (2010); *Associate Professor*. Faculty, Elementary Education; B.S., Mathematics Education, Utah State University; M.S., Electronics Engineering, Technical University; M.Ed., English as a Second Language, Ph.D., Curriculum and Instruction, Utah State University.

ILIKCHYAN, Armen (2015); *Assistant Professor*. Faculty, Technology Management; B.E., Mechanical Engineering, Institute of Technology-Russia; M.I.T., Industrial Technology, Bowling Green State University; Ph.D., Technology Management, Indiana State University.

IOANE, Ofa (2002); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, M.A., Mathematics Education, Brigham Young University.

ISLAM, Mohammad (2016); *Assistant Professor*. Faculty, Mathematics; B.S., M.S., Statistics, Jahangirnagar University, Bangladesh; M.A., Statistics, Ball State University; Ph.D., Statistics, Bowling Green University.

ISTOOK, Ernest (2015); *Lecturer*. Faculty, History & Political Science; B.A., Journalism, Baylor University; J.D., S.J., Quinney College of Law.

IVIE, Richard (2015); *Lecturer*. Faculty, Information Systems & Technology; B.S., Electronic & Computer Engineering, M.B.A., Business, Brigham Young University.

J

JACKSON, Gregory (2016); *Assistant Professor*. Faculty, Integrated Studies; B.A., History, M.A., French Studies, Brigham Young University; Ph.D., History, University of Utah.

JACKSON, TeriSue Smith (2008); *Associate Professor*. Faculty, Public & Community Health; B.S., Community Health, M.S., Public Health, Brigham Young University; Ph.D., Health Promotion and Education, University of Utah.

JANSEN, Dustin (2015); *Assistant Professor*. Faculty, History & Political Science; A.S., Science, Utah Valley University; B.A., History, Brigham Young University; J.D., S. J., Quinney College of Law.

JARASHOW, Benjamin (2009); *Instructor*. Faculty, Languages & Cultures; B.A., M.A., Deaf Studies, Gallaudet University.

JARVIS, John (1992); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Mathematics/Statistics, M.S., Applied Mathematics with Statistical Emphasis, Northern Arizona University.

JASPERSON, Jill (1997); *Associate Professor*. Faculty, Accounting; A.A., General Education, Ricks College; B.A., Drama Education, J.D., J. Reuben Clark College of Law, Brigham Young University.

JAY, Sandy (2011); *Associate Professor*. Faculty, Elementary Education; B.S., Elementary Education, M.S., Curriculum & Instruction, Oklahoma State University; Ph.D., Elementary Education, Florida State University.

JENNE, Stanley (2006); *Professor*. Faculty, Accounting; B.S., Accounting, Weber State College. Certified Public Accountant, Certified Fraud Examiner; M.S., Accounting, Colorado State University; Ph.D., Accounting, University of Illinois at Urbana-Champaign.

JENSEN, Brian (2007); *Associate Professor*. Faculty, Art & Design; B.S., Art & Secondary Education Composite, Southern Utah University; M.F.A., Ceramics, Edinboro University of Pennsylvania.

JENSEN, Douglas (2000); *Associate Professor*. Faculty, Languages & Cultures; B.A., Spanish, M.A., Languages and Literature, University of Utah; Ph.D., Spanish American Literature, University of Iowa.

JENSEN, Ellis (2011); *Associate Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Molecular Biology, Brigham Young University; M.S., Molecular Biology, Ph.D., Bioenergetics, East Carolina University.

JENSEN, Francine (2012); *Assistant Professor*. Faculty, Nursing; A.A.S., Nursing, Piedmont Virginia Community College; B.S., Zoology, Brigham Young University; M.S.N., Nursing Education; George Mason University.

JENSEN, Joseph (2009); *Professor*. Faculty, Physics; B.S., Astronomy, California Institute of Technology; M.S., Ph.D., Astronomy, University of Hawaii.

JENSEN, Michael (2001); *Associate Professor*. Faculty, Student Leadership & Success Studies; B.A., Speech Communication, Utah State University; M.Ed., Educational Leadership, Brigham Young University.

Ji, Xiao (2008); *Associate Professor*. Faculty, Mathematics; B.A., Mathematics, Hubei Education University; M.S., Statistics, Stephen F. Austin State University; Ph.D., Mathematics, Texas Tech University.

JOHN, Cameron (1997); *Associate Professor*. Department Chair and Faculty, Behavioral Science; B.S., Psychology, Weber State University; Ph.D., Educational Psychology, University of Arizona.

JOHNSON, Benjamin (2013); *Assistant Professor*. Faculty, Student Leadership & Success Studies; B.A., M.A., History, Brigham Young University; M.A., Education, Ph.D., Philosophy, Ohio State University

JOHNSON, Jamie (2015); *Assistant Professor*. Faculty, Dance; B.A., English, B.F.A., Ballet, University of Utah; M.F.A., Dance, University of Washington.

JOHNSON, Russ (2015); *Professional In Residence*. Faculty, Organizational Leadership; B.A., Communication, Brigham Young University; M.I.M., International Management, Thunderbird Global School of Management

JOHNSON, Steven (2000); *Associate Professor*. Faculty, Accounting; B.S., Accounting, M.A. (Federal taxation emphasis), Brigham Young University; Ph.D., Accounting, Virginia Polytechnic Institute.

JONES, Brock (2017); *Assistant Professor*. Faculty, English & Literature; B.A., English, Utah Valley University; M.F.A., Creative Writing, University of Wyoming; Ph.D. (ABD), Literature & Creative Writing, University of Utah.

JORGENSEN, Marcus (2007); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Ocean Engineering, U.S. Coast Guard Academy; M.A., Liberal Studies, Wesleyan University; M.S., Instructional & Performance Technology, Boise State University.

JORGENSEN, Robert (2013); *Assistant Professor*. Faculty, Information Systems & Technology; Faculty, Cybersecurity Graduate Programs; B.S., Integrated Studies, Utah Valley University; M.S., Information Systems, University of Utah; Ph.D., Education, Utah State University.

JOHNSON, Randall (2018); *Professional In Residence*. Faculty, Aviation Science; B.P.A., Professional Aeronautics, M.B.A. Business Administration, Embry-Riddle-Aeronautical University; Ph.D., Aeronautical Communication, Ohio University.

JOHNSON, Gary (2018); *Lecturer*. Faculty, Marketing; B.S., Business Management, M.S., Instructional Science, Ph.D., Instructional Psychology, Brigham Young University.

JORGENSEN, Claudia (2018); *Assistant Professor*. Faculty, Behavioral Science; B.S., Biology, B.S., Research Psychology, University of Michigan-Flint; Ph.D. Neuroscience, Florida State University.

K

KAMALI-SARVESTANI, Reza (2012); *Associate Professor*. Faculty, Computer Science; B.S., Electrical and Electronics Engineering, Shiraz University; M.Sc., Electrical and Electronics Engineering, Guilan University; M.S., Electrical Engineering, Ph.D., Engineering, University of Alabama.

KANG, Mi (2011); *Associate Professor*. Faculty, Elementary Education; B.A., M.Ed., Korean Language and Literature Education, Chonbuk National University; M.S., Educational Leadership, University of Oregon; Ph.D., Curriculum and Instruction, University of Wisconsin-Madison.

KARL, Alexandra (2017); *Lecturer*. Faculty, Philosophy & Humanities; B.A., Theory and History of Art, B.F.A., Studio Art, University of Ottawa; M.A., History of Art, Ludwig-Maimillians Universitat; Ph.D., History of Art, University of Cambridge.

KASSEL, Bobbi (2014); *Assistant Professor*. Faculty, Criminal Justice/Law Enforcement; B.S., Criminal Justice, Utah Valley University; M.Ed., Instruction Design, University of Utah.

KECK, Thomas (2016); *Assistant Professor*. Faculty, Music; B.S., Music Education, University of Illinois; M.A., Music Education, University of Iowa; D.M.A., Conducting, Arizona State University.

KELLER, David (2003); *Associate Professor*. Faculty, Nursing; B.S., Nursing, M.S., Psychiatric Nursing, Brigham Young University.

KELLY, R. (2015); *Lecturer - Placeholder*. Faculty, Earth Science; B.S., Geology, Brigham Young University; M.S., Geology, Idaho State University.

KENDALL, Rodney (1981); *Professor*. Faculty, Engineering Design Technology; A.A.S., Electronics, Utah Technical College; B.S., Electronics, M.S., Computer-Integrated Manufacturing, Brigham Young University.

KERR, Lydia (2011); *Associate Professor*. Faculty, English & Literature; B.A., English Literature, The Florida State University; M.A., Ph.D., Comparative Literature, State University of New York.

KIA, Amir (2006); *Professor*. Faculty, Finance & Economics; M.A., Mathematical Economics and Econometrics, University of Ottawa; Ph.D., Economics, Carleton University, Ottawa, Canada.

KNADLER, Charles (2016); *Lecturer*. Faculty, Computer Science; B.E.S., Mechanics, The Johns Hopkins University; M.S., D.Sc., Computer Science, George Washington University.

KNAEBLE, Brian (2016); *Assistant Professor*. Faculty, Mathematics; B.S., M.S., Mathematics, M.Stat., Ph.D., University of Utah.

KNIGHT, Dianne (2008); *Associate Professor*. Department Chair and Faculty, Allied Health; AS, General Studies, Brigham Young University - Provo; B.S., Dental Hygiene, Weber State College; M.B.A., Business Administration, Cal Poly Pomona.

KNIGHTON, Janine Sobeck (2016); *Assistant Professor*. Faculty, Theatrical Arts for Stage & Screen; B.A., Theatre Art Studies, Brigham Young University; M.F.A., Dramatic Writing, University of Idaho.

KNOWLTON, David (2002); *Professor*. Faculty, Behavioral Science; B.A., Anthropology, University of Utah; M.A., Ph.D., Anthropology, University of Texas.

KOPP, Olga (2003); *Professor*. Faculty, Biology; B.S., Biology, Universidad nacional de Colombia; M.S., Ornamental Horticulture, Ph.D., Botany, University of Tennessee.

KREBS, Cynthia (1988); *Professor*. Faculty, Information Systems & Technology; B.S., M.S., Business Education, Utah State University.

KUDDUS, Ruhul (2003); *Professor*. Faculty, Biology; B.S., Biology, Rajendra College of the University of Dhaka, Dhaka Bangladesh; M.S., Zoology, University of Dhaka, Dhaka Bangladesh; M.S., Biology, George Mason University; Ph.D., Molecular Genetics and Biochemistry (Microbiology), University of Pittsburgh.

KUNAKEMAKORN, Numsiri (2004); *Associate Professor*. Faculty, Secondary Education; Coordinator, Gender Studies, Interdisciplinary Studies Program; B.A., English, University of California, Santa Barbara; M.A., Multicultural & International Education, University of San Francisco; M.A., English, Sonoma State University; Ph.D., Comparative Literature, Purdue University.

KUPKA, Bernd (2011); *Associate Professor*. Faculty, Organizational Leadership; B.A., Communication, University of Hawaii at Hilo; M.S., Corporate & Professional Communication, Radford University; Ph.D., Management, University of Otago.

KHAN, Tahir (2018); *Assistant Professor*. Faculty, Information Systems & Technology; B.S., Information Media, Saint Cloud State University; M.S., Information Systems, George Washington University; Ph.D. (ABD), Information Technology, George Mason University.

KARI, Olsen (2018); *Assistant Professor*. Faculty, Accounting; B.S., M.S., Accounting, Brigham Young University; Ph.D., Business Administration, University of Southern California.

KLEINMAN, Phill (2018); *Assistant Professor*. Faculty, Nursing; B.S., Nursing, University of Arizona; M.S.N., Nursing, University of New Mexico.

KAMAIOPILI, Kyle (2018); *Assistant Professor*. Faculty, English & Literature; B.A., English, Whitworth University; M.A., English, California Polytechnic State University; Ph.D. (ABD), English, Tufts University.

L

LAMARCHE, Pierre (2000); *Professor*. Department Chair and Faculty, Philosophy & Humanities; B.A., Physics, University of Toronto; M.A., Ph.D., Philosophy, University of Texas.

Administration and Faculty

LAMBERT, Lisa (2007); *Associate Professor*. Faculty, Student Leadership & Success Studies; B.A., Educational Psychology, M.B.A., Organizational Behavior & Strategy, Brigham Young University.

LANTZ, Clayton (2016); *Assistant Professor*. Faculty, Digital Media; B.A., Digital Media, Utah Valley University.

LARICHEVA, Elena (2015); *Assistant Professor*. Faculty, Chemistry; B.S., M.S., Analytical Chemistry, St. Petersburg State University, Russia; Ph.D., Computational Chemistry, Bowling Green State University.

LARSEN, Merilee (2013); *Assistant Professor*. Faculty, Public & Community Health; B.S., Community Health, Utah Valley University; M.P.H., Health Education, Ph.D., Public Health, Loma Linda University.

LAW, Ryan (2015); *Professional In Residence*. Faculty, Finance & Economics; B.S., Family & Consumer Sciences, Utah State University; M.S., Personal Financial Planning, Texas Tech University.

LEE, Christopher (2011); *Lecturer*. Faculty, English & Literature; A.S., General Studies, Snow College; B.A., History, M.S., American Studies in English, Utah State University.

LEE, KC (2014); *Lecturer*. Faculty, Mathematics; B.S., M.S., Statistics, Brigham Young University.

LEICK, Ryan (2011); *Associate Professor*. Faculty, Aviation Science; B.S., Aviation Business Administration, Embry-Riddle Aeronautical University; Ph.D., Air Transport Management, Cranfield University.

LENTZ, Mark (2013); *Assistant Professor*. Faculty, History & Political Science; B.A., History, Nebraska Wesleyan University; M.A., PhD, Colonial Latin, Tulane University.

LEONARD, Todd (2007); *Associate Professor*. Department Chair and Faculty, Culinary Arts Institute; A.A., Culinary Arts, Salt Lake Community College

LEWIS, Scott (1999); *Professor*. Faculty, Mathematics; B.S., M.S., Mathematics, Brigham Young University; Ph.D., Mathematics, Montana State University.

LEY, Stephen (2017); *Associate Professor*. Department Chair and Faculty, Aviation Science; B.S., Aviation Technology, Purdue University; M.A.S., Aeronautical Science, Embry-Riddle Aeronautical University.

LI, Ya (1990); *Professor*. Faculty, Mathematics; B.S., Mathematics, University of Science and Technology of China; Ph.D., Mathematics, University of Utah.

LIANG, Jingdong (2002); *Associate Professor*. Faculty, Communication; B.A., English, People's University of China; M.A., Journalism, Graduate School of Chinese Academy of Social Sciences; Ph.D., Communications, University of Utah.

LIANG, Samuel (2011); *Associate Professor*. Faculty, Philosophy & Humanities; Coordinator, Chinese Studies, Interdisciplinary Studies Program; B.A., Architecture, Anhui Architectural Industry Institute; M.A., History of Architecture, Tongji University, Shanghai; Ph.D., Art History, Binghamton University.

LINDHEIMER, Rebeca (2017); *Lecturer*. Faculty, Languages & Cultures; B.A., M.A., English to Spanish Translation, Brigham Young University;

LINDLEY, Betsy (2006); *Associate Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Chemistry, Health & Physical Education, Berry College; M.Ed., Physical Education, Texas A&M University; Ph.D., Education, University of Minnesota.

LINDQUIST, Chris (2014); *Lecturer*. Faculty, Emergency Services; B.S., Behavioral Science, University of Utah; M.B.A., Healthcare Administration, Westminster College; Ph.D. (ABD), Organizational Leadership, Grand Canyon University's College of Doctoral Studies.

LINFIELD, J. (1998); *Associate Professor*. Faculty, Construction Technologies; B.S., Technology Management, Utah Valley State College.

LING, Jun (Michael) (2002); *Professor*. Faculty, Mathematics; B.S., Mathematics, Jiangsu University, China; M.A., Mathematics, Ph.D., Mathematics, State University of New York at Buffalo; Ph.D., Pure Mathematics, Zhejiang University.

LISONBEE, Dennis (1999); *Associate Professor*. Faculty, Digital Media; B.S., University Studies; M.A., Communications, Brigham Young University.

LOFTUS, Jane (2005); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Mathematical Sciences, University of Paisley; M.S., Mathematics, Ph.D. (ABD), Electrical Engineering, Brigham Young University.

LOPEZ-AGUILERA, Ana (2014); *Assistant Professor*. Faculty, Languages & Cultures; B.A., English, M.A., Spanish, University of Malaga; M.A., Ph.D., Spanish, University of Nebraska.

LOS, Richard (2015); *Lecturer*. Faculty, Criminal Justice/Law Enforcement; B.S., M.P.A., Justice Administration, Brigham Young University.

LOVELL, Travis (2010); *Associate Professor*. Faculty, Art & Design; AS, Utah Valley University; B.F.A., Brigham Young University; M.F.A., Maine Media College.

LOW, Todd (1990); *Professor*. Faculty, Automotive Technology; A.A.S., Utah Technical College; A.S., Automotive, Utah Valley Community College; B.S., Industrial Education, Brigham Young University; M.S., Utah State University.

LUNDAHL, Diana (2014); *Assistant Professor*. Faculty, Engineering Technology; AS, Electronic Technology, Utah Valley State College; B.S., Electronics Engineering, Weber State University.

M

MA, Ruen-chuan (2017); *Assistant Professor*. Faculty, English & Literature; B.A., English Language and literature and Teaching, University of Chicago; M.A., Philosophy, Columbia University; M.A., Medieval Studies, University College London; Ph.D., English & Comparative Literature, Columbia University.

MACKAY, Brian (2013); *Lecturer*. Department Chair, English Language Learning; B.A., German, M.A., English as a Second Language, Brigham Young University; M.A., German, University of California, Davis

MADSEN, Susan (2002); *Professor*. Faculty, Organizational Leadership; B.A., Speech Communication Education, Brigham Young University; M.S., Teaching, Exercise Science/Fitness, Portland State University; Ed.D., Human Resource Development, University of Minnesota.

MALONE, Catherine (2003); *Associate Professor*. Faculty, Biology; AA, General Education, Santa Monica College; B.A., Ecology Evolution Behavior, University of California; Ph.D., Genetics, Texas A & M University.

MANNING, David (1992); *Professor*. Faculty, Engineering Design Technology; A.A.S., Drafting Technology, Utah Valley Technical College; B.S., Technology Management, Utah Valley State College; M.Ed., Instructional Technology, Utah State University.

MARKGRAF-JACOBSON, Amy (2004); *Associate Professor*. Faculty, Dance; AS, Brigham Young University - Idaho; B.S., Dance, Utah State University; M.A., Dance, Brigham Young University; M.F.A., Modern Dance, University of Utah.

MATHESON, Philip (2001); *Professor*. Department Chair and Faculty, Physics; B.S., Physics, Arizona State University; Ph.D., Physics, Brigham Young University.

MAUGHAN, Dale (2009); *Associate Professor*. Department Chair, Nursing; Faculty, Nursing Graduate Programs; A.S., B.S., Nursing, M.S., Health Promotion, Brigham Young University; Ph.D., Health Promotion & Education, University of Utah.

MAXFIELD, Jeff (1989); *Professor*. Faculty, Emergency Services; A.A.S., Fire Science, Utah Valley University; B.S., Business Administration, University of Phoenix; M.P.A., Public Administration, Brigham Young University; Ed.D., Adult Education/ Curriculum & Instruction, Utah State University.

MAXFIELD, Neal (2009); *Lecturer*. Faculty, Marketing; B.S., Accounting and Management, M.B.A., University of Utah.

MCADAMS-JONES, Dianne (2006); *Associate Professor*. Faculty, Nursing; B.S., Nursing, Tuskegee University; M.Ed., Education Management, M.S., Nursing Education, Westminster; Ed.D., Health Care Professions, College of Saint Mary.

MARTHUR, David (2003); *Associate Professor*. Department Chair, Strategic Management & Operations; Faculty, Business Graduate Programs; B.S., Marine Engineering, United States Merchant Marine Academy; M.B.A., International Business and Finance, M.A., International and Area Studies (emphasis in Asian Studies), Brigham Young University; Ph.D., International Business & Strategic Management, University of South Carolina.

MCCARTHY, Kevin (2015); *Assistant Professor*. Faculty, Emergency Services; A.A.S., Fire Science, Utah Valley University; B.A., Criminal Justice, Columbia College; M.P.A., Public Administration, Brigham Young University; EdD (ABD), Education, Curriculum & Instruction, Liberty University

MCDONALD, Daniel (2011); *Associate Professor*. Faculty, Information Systems & Technology; B.S., Accounting, Brigham Young University; M.S., Management Information Systems, Ph.D., Management, University of Arizona.

MCDONALD, Richard (1998); *Professor*. Faculty, English & Literature; B.A., English Literature, M.Ed., English Education, University of Florida; M.A., Ph.D., English Literature, University of South Florida.

- MCDONELL, Martin** (2017); *Associate Professor*. Faculty, Behavioral Science; B.A., Psychology, San Diego State University; M.S.W., California State University-Long Beach; Ph.D., Social Work, University of Utah.
- MCGHIE, Shaunna** (2002); *Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Physical Education, M.A., Education, Ed.D., Physical Education, Brigham Young University.
- MCINTIRE, Hank** (2014); *Assistant Professor*. Faculty, Communication; B.A., Spanish Translation, B.S., Travel and Tourism, Brigham Young University; M.A., Communication, University of Utah; PhD, Communication, University of Utah.
- MCKENNA, Hazel** (1989); *Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, University of Edinburgh; M.S., Mathematics, Ph.D., Instructional Science, Brigham Young University.
- MCPHERSON, Kathryn** (2000); *Professor*. Director, English & Literature; B.A., M.A., English, University of New Mexico; Ph.D., English, Emory University.
- MEASOM, Gary** (2000); *Professor*. Faculty, Nursing; A.S., B.S., Nursing, M.S., Nursing, Clinical Cardiology, Brigham Young University; Ph.D., Exercise Physiology, University of New Mexico.
- MEASOM, Keri** (2012); *Lecturer*. Faculty, Elementary Education; B.S., Elementary Education, Southern Utah University; M.Ed., Education, Brigham Young University.
- MERRILL, Kyle** (2016); *Lecturer*. Faculty, Technology Management; B.S., Statistics/Quality & Production, M.S., Statistics, Brigham Young University.
- MERRIN, Christine** (1992); *Professor*. Faculty, Mathematics; B.S., Mathematics, University of Maryland; M.S., Ph.D., Mathematics, New Mexico State University.
- MERRIN, Stephen** (1996); *Professor*. Faculty, Mathematics; B.S., Mathematics, University of Colorado; M.A., Mathematics, University of Maryland; Ph.D., Mathematics, New Mexico State University.
- MGONJA, Thomas** (2012); *Assistant Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, Idaho State University; M.S., Financial Mathematics, Florida State University.
- MILLER, Douglas** (1996); *Professor*. Faculty, Organizational Leadership; B.S., Hospitality Management, Brigham Young University, Hawaii; M.B.A., Chaminade University; Ph.D., University of Utah.
- MILLER, Duane** (1992); *Professor*. Faculty, Marketing; B.S., M.S., Business Education, Brigham Young University.
- MILLER, Ronald** (2017); *Professor*. Faculty, Strategic Management & Operations; B.S., Experimental Psychology, Brigham Young University; M.S., Ph.D., Experimental Psychology, Purdue University.
- MILLIGAN, Patrick** (2015); *Professional In Residence*. Faculty, Strategic Management & Operations; B.S., Business Management, University of Utah; M.A., Organizational Leadership, Gonzaga University.
- MILLS, Paul** (1982); *Professor*. Faculty, Physics; B.S., M.S., Physics, Brigham Young University.
- MILLWARD, Jason** (2016); *Lecturer*. Faculty, Art & Design; B.A., Sculpture, Utah State University; M.F.A., (ABD), Sculpture, Utah State University.
- MINAIE, Afsaneh** (2001); *Professor*. Faculty, Computer Science; B.S., M.S., Ph.D., Electrical Engineering, University of Oklahoma.
- MINCH, Michael** (2001); *Professor*. Faculty, Philosophy & Humanities; Coordinator, Peace and Justice Studies, Interdisciplinary Studies Program; B.A., History, Grand Canyon College; M.A., Political Philosophy, Ph.D., Political Science, University of Utah; M. Divinity, The Eastern Baptist Theological Seminary.
- MINER, M.** (1975); *Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Recreation/Physical Education Management, M.A., Recreation/Physical Education Administration, Brigham Young University; Ph.D., Education, University of Wyoming.
- MISBACH, Alan** (2014); *Assistant Professor*. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; MWS, Social Work, University of Nevada Las Vegas.
- MITTELMAN, Margaret** (2003); *Professor*. Faculty, Emergency Services; A.A.S., Community Health, Utah Valley University; B.S., Psychology, Utah Valley State College; M.Ed., Utah State University.
- MIZELL, Karen** (1999); *Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy, Incarnate Word College; M.A., Ph.D., Philosophy, University of Oklahoma.
- MOFFAT, Robert** (2012); *Lecturer*. Faculty, Theatrical Arts for Stage & Screen; A.A., General Studies, Mesa Community College; B.F.A., Music Dance Theater, Brigham Young University.
- MONSON, Natalie** (2017); *Assistant Professor*. Faculty, Nursing; A.A.S., Nursing, Utah Valley University; M.S.N., Nursing, Walden University.
- MOODY, Richard** (2010); *Associate Professor*. Faculty, Theatrical Arts for Stage & Screen; B.S., Radio, Television and Film, M.A., Telecommunications, San Diego State University; Ph.D., Film Studies, Brigham Young University.
- MOORE, Thomas** (2016); *Lecturer*. Faculty, Automotive Technology; B.S., M.S., Technology & Engineering, Brigham Young University.
- MORIN, David** (2013); *Assistant Professor*. Department Chair and Faculty, Communication; B.A., Political Science, University of Illinois; M.A., Communication, Virginia Polytechnic Institute; Ph.D., Media & Communication, Bowling Green State University.
- MORREY, C.** (2011); *Associate Professor*. Faculty, Information Systems & Technology; B.S., Computer Science, Utah Valley University; M.S., Ph.D., Computer Science, New Jersey Institute of Technology.
- MORTENSEN, James** (2013); *Professional In Residence*. Faculty, Strategic Management & Operations; B.S., Business Administration, M.P.A., Public Administration, Brigham Young University; M.S., Virginia Polytechnic Institute.
- MORTENSEN, Lee** (1992); *Professor*. Faculty, English & Literature; B.S., Psychology, Brigham Young University; M.F.A., English/Creative Writing, University of Utah.
- MOSS, David** (2006); *Associate Professor*. Department Chair and Faculty, English & Literature; B.A., English, Washington University; M.A., English, Southern Illinois University; Ph.D., English, University of North Carolina.
- MOULTON, Benjamin** (2002); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, B.A., Modern Languages, Montana State University; M.S., Civil Engineering, Brigham Young University; Ph.D., Philosophy, Walden University.
- MUELLER, Katherine** (2009); *Associate Professor*. Faculty, Nursing; B.S., Nursing, Westminster College; M.S., Nursing, Ph.D. (ABD), University of Utah.
- MULBERRY, Keith** (1994); *Professor*. Department Chair and Faculty, Information Systems & Technology; B.S., M.Ed., Education, Southwestern Oklahoma State University; Ph.D., Business Information Systems, Utah State University.
- MUNZ, Stevie** (2016); *Assistant Professor*. Faculty, Communication; B.A., German Business/Translation, B.A., Organizational Communications, Northern Illinois University; M.A., Communication, Illinois State University; Ph.D., Communication Studies, Ohio University.
- MURDOCK, Mitchel** (2016); *Assistant Professor*. Faculty, Marketing; B.S., Business Management, Brigham Young University; Ph.D., Business Administration, University of South Carolina.
- MURPHY, Lynley** (2002); *Associate Professor*. Department Chair and Faculty, Public & Community Health; B.S., Health Education, M.S., Health Services, Brigham Young University; Ph.D., Health Promotion & Education, University of Utah.
- MUSSETT, Shannon** (2003); *Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy, Goucher College; M.A., Ph.D., Philosophy, Villanova University.
- MARTIN, Terrance K.** (2018); *Assistant Professor*. Faculty, Finance and Economics; BBA, Economics, Midwestern State University; MBA, Business Administration, Midwestern State University; PhD, Personal Financial Planning, Texas Tech University
- MUGAVERO, Nicolas** (2018); *Lecturer*. Faculty, English & Literature; B.A., English, Rutgers University; M.A., Ph.D., English Literature, State University of New York.
- MILLER, Ronald** (2018); *Professor*. Faculty, Strategic Management & Operations; B.S., Experimental Psychology, Brigham Young University; M.S., Ph.D., Experimental Psychology, Purdue University.
- MATHESON, Breanne** (2018); *Assistant Professor*. Faculty, English & Literature; B.A., English, Brigham Young University; M.S., English, Utah State University; Ph.D. (ABD), Technical Communication and Rhetoric, Utah State University.
- MASOUM, Mohammad** (2018); *Associate Professor*. Faculty, Computer Science; B.S., M.S., Ph.D., Electrical and Computer Engineering, University of Colorado.
- MARTINEZ, Alan** (2018); *Assistant Professor*. Faculty, Aviation Science; B.A., University of Southern Mississippi; M.S., Instructional Systems Design, University of South Alabama; Ph.D., Human Capital Development, University of Southern Mississippi.

Administration and Faculty

N

NAISBITT, Gary (2005); *Associate Professor*. Faculty, Criminal Justice/Law Enforcement; B.A., German, Weber State College; Ph.D., Biochemistry, Brigham Young University.

NAMANNY, Steven (2015); *Instructor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Physical Education & Recreation, Utah Valley University; M.S., Sports Conditioning & Performance, Southern Utah University.

NELSON, Julie (2015); *Lecturer*. Faculty, Behavioral Science; B.S., Elementary Education & Early Childhood, Brigham Young University; M.A., Family & Human Development, Utah State University.

NELSON, Troy (2003); *Associate Professor*. Faculty, Nursing; A.S., Nursing Utah Valley University; B.S., Nursing, Weber State University; M.S., Nursing-Family Nurse Practitioner, University of Utah.

NEWMAN, John (2010); *Assistant Professor*. Faculty, Theatrical Arts for Stage & Screen; B.F.A., Theatre, M.Ed., Multicultural Studies, University of Utah; M.A., Drama and Theatre for Youth, University of Texas at Austin; Ph.D., Educational Theatre, New York University.

NIELSEN, Ryan (2018); *Associate Professor*. Faculty, Music; B.M., Music Education, Brigham Young University - Idaho; M.M., Trumpet Performance, Arizona State University; Ph.D., Jazz Performance, New England Conservatory of Music.

NADEAU, Ashley (2018); *Assistant Professor*. Faculty, English & Literature; B.A., Literature, American University; M.A., Ph.D., English, University of Massachusetts Amherst.

NGUYEN, Christopher (2012); *Assistant Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy, Harvard University; Ph.D., Philosophy, University of California.

NIBLEY, Alex (2015); *Lecturer*. Faculty, Digital Media; B.A., Mass Communication, University of Utah; M.F.A., Directing & Arts Administration, American Conservatory Theatre.

NICHOLS, Julie (2002); *Associate Professor*. Faculty, English & Literature; B.A., English, M.A., English-Modern British Literature, Brigham Young University; Ph.D., English-Creative Writing, University of Utah.

NICHOLS, Nyree-Dawn (2012); *Assistant Professor*. Faculty, Nursing; A.S., Utah Valley University, B.S.N., M.S., Nursing, University of Utah.

NIELSEN, Kim (2012); *Assistant Professor*. Faculty, Physics; B.S., Physics, University of Copenhagen; M.S., University of Alaska; Ph.D., Physics, Utah State University.

NIELSON, Elijah (2016); *Assistant Professor*. Faculty, Behavioral Science; B.A., Asian Studies, M.S.W., Brigham Young University; J.D., Ave Maria School of Law; L.L.M., Stratus Institute for Dispute Resolution; Ph.D., (ABD), Social Work, University of Utah.

NIGRO, Jenna (2015); *Assistant Professor*. Faculty, History & Political Science; B.A., History & French, Allegheny College; M.A., French Studies, New York University; Ph.D., History, University of Illinois.

NISGURITZER, Jorge (2007); *Associate Professor*. Faculty, Languages & Cultures; B.A., Spanish, Weber State University; M.A., Ph.D., Languages & Literature, University of Utah.

NOLL, Gary (1997); *Professor*. Department Chair and Faculty, Emergency Services; A.A.S., Fire Science, Community College of the Air Force; B.S., Technology Management (Fire Science Specialty), Utah Valley University; M.Ed., Utah State University.

NORTH, Matthew (2015); *Assistant Professor*. Faculty, Information Systems & Technology; B.A., History, Brigham Young University; M.S., Business Information Systems, Utah State University; Ph.D., Education, West Virginia University.

NOYES, Melissa (2017); *Assistant Professor*. Faculty, Criminal Justice/Law Enforcement; B.S., Criminal Justice, Utah Valley University; J.D., Law, University of LaVerne College of Law.

O

O'FLYNN, Jeffrey (2015); *Assistant Professor*. Faculty, Music; B.M., Clarinet Performance, Wichita State University; M.M., Clarinet Performance, Florida State University; D.M.A., Clarinet Performance, College-Conservatory of Music.

OGDEN, T. (2009); *Associate Professor*. Faculty, Biology; B.S., Zoology, Ph.D., Integrative Biology, Brigham Young University; M.S., with mention in Zoology, Universidad de Concepción.

ORMOND, Pat (1984); *Professor*. Faculty, Information Systems & Technology; A.A.S., Data Processing, A.A.S., Accounting, Utah Technical College; B.S., Accounting, Brigham Young University; M.S., Information Systems, Utah State University.

ORR, Terrance (2007); *Associate Professor*. Faculty, Automotive Technology; B.S., Technology Management, Utah Valley State College; M.Ed., Instructional Technology, Utah State University.

ORTEGA, Nichole (2004); *Associate Professor*. Faculty and Faculty, Dance; B.S., Health Sciences, Brigham Young University; M.A., Dance, California State University Long Beach.

ORTEGA, Xiaoli (2012); *Assistant Professor*. Faculty, Accounting; B.S., Nursing, M.B.A., Business Administration, Ph.D., Accounting, University of Utah.

OTTO, Bill (2016); *Assistant Professor*. Faculty, Digital Media; B.A., Visual Arts/Media, University of California, San Diego; M.F.A., Cinematography, American Film Institute.

P

PATTEN, Devin (2018); *Lecturer*. Faculty, English & Literature; BS, Technology Management, Utah Valley University; MA, Writing & Literature, Utah State University;

PAULY, Jessica (2018); *Assistant Professor*. Faculty, Communication; B.A., Communication Studies, Nebraska Wesleyan University; M.A., Communication Studies, University of Kansas; Ph.D. (ABD), Communication Studies, Purdue University.

PACKER, Jeffrey (2007); *Associate Professor*. Faculty and Faculty, Languages & Cultures; B.A., German Teaching, M.A., German Literature, Brigham Young University; Ph.D., German Studies, University of Cincinnati.

PALAIS, Bob (2011); *Associate Professor*. Department Chair and Faculty, Mathematics; B.S., Mathematics, Harvard University; M.S., Ph.D., Mathematics, University of California.

PANG, Hong (2012); *Assistant Professor*. Faculty, History & Political Science; Coordinator, Chinese Commerce, Interdisciplinary Studies Program; B.A., International Politics, B.A., Economics, Peking University, P.R. China; M.A., Economics, Ph.D., Politics and International Relations, University of Southern California.

PANOS, Angelea (2017); *Assistant Professor*. Faculty, Behavioral Science; B.A., Psychology, M.S.W., Mental & Occupational Health, University of Utah; M.A., Ph.D., Clinical Psychology, Fielding Graduate University.

PARKINSON, Susan (1994); *Associate Professor*. Faculty, Art & Design; B.A., Art Education, Weber State University; M.A., Fine Arts, Utah State University; Ph.D. (ABD), Educational Leadership, Brigham Young University.

PARRY, Alan (2016); *Assistant Professor*. Faculty, Mathematics; B.S., M.S., Mathematics, Utah State University; M.A., Ph.D., Mathematics, Duke University.

PATCH, Michael (2007); *Associate Professor*. Department Chair, Elementary Education; Faculty, Education Graduate Programs; B.A., Communication, M.Ed., Elementary Education, Brigham Young University; Ph.D., Curriculum & Instruction, University of Nevada.

PATTERSON, Spencer (2014); *Assistant Professor*. Faculty, Communication; B.S., University Studies, Brigham Young University; M.A., Organizational Communications, Idaho State University; Ph.D., Health Communication, Ohio University.

PEPPER, Mark (2011); *Associate Professor*. Faculty, English & Literature; B.A., English, M.A., English Literature, Sacramento State University; Ph.D., Rhetoric & Composition, Purdue University.

PERKINS, Raymond (2014); *Assistant Professor*. Faculty, Physics; B.S., M.S., Ph.D., Physics, Brigham Young University.

PERRY, Danial (2005); *Associate Professor*. Faculty, Engineering Design Technology; A.A.S., Drafting and Design Technology, Utah Valley Technical College; B.S., Management, Linfield College; M.B.A., University of Phoenix.

PETERSEN, Boyd (2008); *Lecturer*. Faculty, English & Literature; B.A., French and International Relations, Brigham Young University; M.A., Comparative Literature, University of Maryland; Ph.D., Comparative Literature, University of Utah.

PETERSEN, Jerry (2013); *Assistant Professor*. Faculty, English & Literature; B.A., Social Sciences, Washington State University; M.A., English Rhetoric & Composition, Washington State University; Ph.D., English, Rhetoric and Composition, Washington State University.

PETERSON, Jeffrey (2009); *Associate Professor*. Department Chair, Organizational Leadership; Faculty, Business Graduate Programs; B.S., Family Science, M.B.A., Brigham Young University; M.S., Business, Ph.D., Management (Organizational Behavior), University of Washington.

PETERSON, Luke (2014); *Lecturer*. Faculty, History & Political Science; B.A., History, Utah Valley University; MPA, Public Policy, Harvard University.

PETERSON, Nancy (1997); *Professor*. Faculty, Elementary Education; B.S., Elementary Education, Brigham Young University; M.Ed., Early Childhood Education, Old Dominion University; Ed.D., Curriculum & Instruction, University of Virginia.

PETERSON, Owen (2015); *Assistant Professor*. Faculty, Digital Media; A.A., Theatre & Music, Western Wyoming Community College; B.A., Theatre Studies, Brigham Young University; MEAE, Entertainment Arts & Engineering; University of Utah.

PETERSON, Todd (2003); *Associate Professor*. Faculty, Computer Science; B.S., Computer Science, Brigham Young University; M.S., Ph.D., Computer Science, University of Alabama.

PETRIE, Terry (2004); *Professor*. Faculty, Theatrical Arts for Stage & Screen; B.Ed., Theater, University of Alberta; Ph.D., Theatre, Brigham Young University.

PETTERSSON, James (1990); *Professor*. Faculty, English Language Learning; B.A., Elementary Education, University of Utah; M.A., TESL, Brigham Young University; Ph.D., Adult and Post-Secondary Education, University of Wyoming.

PORTER, Evelyn (2008); *Associate Professor*. Faculty, Developmental Mathematics; B.S., U.S. Naval Academy; M.E.M., Master of Engineering Management, Old Dominion University.

POTTER, R. (2000); *Associate Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy, Brigham Young University; M.A., Philosophy, Florida State University; M.A., Philosophy, University of Notre Dame.

POULSON, Barton (2002); *Associate Professor*. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; M.A., Psychology, Hunter College; M. Phil., Psychology, Ph.D., Social-Personality Psychology, The City University of New York.

POWELL, John (2013); *Lecturer*. Faculty, Physics; B.S., Physics, M.S., Physics, Ph.D., Physics & Astronomy, Brigham Young University.

PRESTON, Jacqueline (2011); *Associate Professor*. Faculty, Literacies & Composition; B.S., Education, Ohio University; M.A., Humanities, M.A., English, Wright State University; Ph.D., English, University of Wisconsin, Madison.

PRESTON, Karen (2012); *Assistant Professor*. Faculty, Allied Health; B.S., Dental Hygiene, Weber State College; M.Ed., Education, University of Phoenix.

PRICE, James (1999); *Professor*. Department Chair and Faculty, Biology; B.A., Biology, University of California; Ph.D., Molecular Biology, University of Colorado.

PRICE, Robert (2003); *Associate Professor*. Department Chair and Faculty, Engineering Design Technology; A.S., Drafting Technology, B.S., Technology Management, Utah Valley State College.

PRZBYLA, David (2016); *Professional in Residence*. Faculty, Marketing; B.S., Engineering, Brigham Young University; M.B.A., Business Administration, Colorado State University.

PURDY, Stephen (2004); *Lecturer*. Faculty, Theatrical Arts for Stage & Screen; B.A., Communications, Brigham Young University.

R

ROSE, Kelly (2018); *Assistant Professor*. Faculty, Allied Health; A.S., Respiratory Care, United States Air Force; B.S., Health Care Administration, California Coast University; M.S., Health Education, Trident University International.

RADIGAN, Jacqueline (2016); *Assistant Professor*. Faculty, Physics; B.S., Physics, Queen's University; Ph.D., Astronomy, University of Toronto.

RAMIREZ, Axel (2002); *Professor*. Faculty, Secondary Education; B.A., History, M.S., American History, Ph.D., Curriculum and Instruction, University of Utah.

REES, John (2010); *Associate Professor*. Faculty, Art & Design; B.F.A., Photography, Brigham Young University.

REYES, Kyle (2014); *Assistant Professor*. Faculty, Secondary Education; B.A., Visual Arts-Graphic Design, M.Ed., Educational Leadership, Brigham Young University; Ph.D., Educational Leadership & Policy, University of Utah.

RHOADS, Kevin (2012); *Assistant Professor*. Faculty, Strategic Management & Operations; B.A., French, Brigham Young University; Ph.D., Strategy/Entrepreneurship, University of Oklahoma.

RICALDI, Laura (2015); *Assistant Professor*. Faculty, Finance & Economics; B.B.A., Business Administration, M.B.A. General Business, Ph.D., Personal Financial Planning, Texas Tech University.

RICHARDS, Denise (2002); *Associate Professor*. Faculty, Student Leadership & Success Studies; B.S., Psychology, Pacific Union College; M.O.B., Organizational Behavior, Brigham Young University; Ph.D. (ABD), Leadership and Organizational Change, Walden University.

RICHARDS, Grant (1992); *Professor*. Faculty, Behavioral Science; B.S., Animal Science, M.S., Psychology, Ed.D., Educational Psychology, Brigham Young University.

ROBBINS, Robert (1995); *Professor*. Faculty, Biology; B.S., Botany, Iowa State University; M.S., Ph.D., Botany, University of Illinois.

ROBERTSON, Jacob Levi (2015); *Lecturer*. Faculty, English & Literature; B.A., English, California State University; M.A., English, Brigham Young University; Ph.D., English Language & Literatures, The University of Houston.

ROBINSON, Jill (2011); *Lecturer*. Faculty, Theatrical Arts for Stage & Screen; B.A., Theater & Cinematic Arts, M.A., Theater & Media Arts, Brigham Young University.

ROBINSON, Peter (2003); *Professor*. Faculty, Strategic Management & Operations; B.S., Psychology (emphasis in Organizational Psychology), Ph.D., Organizational Psychology, Brigham Young University.

ROCKS, Sally (2017); *Assistant Professor*. Faculty, Chemistry; B.A., Chemistry, Bucknell University; M.S., Ph.D., Chemistry, University of Rochester.

RODDY, Meghan (2012); *Associate Professor*. Faculty, Culinary Arts Institute; B.S., Hotel, Restaurant and Institutional Management, University of Delaware.

ROMRELL, Anthony (2008); *Associate Professor*. Faculty, Digital Media; B.S., M.F.A., Art, Utah State University.

ROSSI DE OLIVEIRA, Andre (2011); *Associate Professor*. Faculty, Finance & Economics; B.A., M.A., Economics, University of Brasilia; M.Sc., Mathematics, Ph.D., Economics, University of Illinois at Urbana-Champaign.

ROYBAL, Thomas (2013); *Assistant Professor*. Faculty, Developmental Mathematics; B.S., Mathematics & English, Weber State University; M.A., Mathematics, University of California-Santa Barbara.

RUDOLPH, George (2016); *Associate Professor*. Faculty, Computer Science; B.S., M.S., Ph.D., Computer Science, Brigham Young University.

RUGGLES, Krista (2016); *Assistant Professor*. Faculty, Elementary Education; B.A.E., M.Ed., Elementary Education, Ph.D., Curriculum & Instruction, University of Florida.

RUSSELL, Eric (2006); *Associate Professor*. Faculty, Emergency Services; A.A.S., Fire Science, Community College of the Air Force; B.S., Management-Fire Science, University of Phoenix; M.B.A., Grantham University; M.S., Executive Fire Service Leadership, Ed.D., Organization Leadership, Grand Canyon University.

RUSSELL, Jamie (2017); *Assistant Professor*. Faculty, Nursing; B.S.N., Nursing, University of Utah; M.S.N., Nursing Education, Western Governors University.

RYSDAM, Sheri (2012); *Assistant Professor*. Faculty, Literacies & Composition; B.A., English, Eastern Oregon University; M.A., English, Western Washington University; Ph.D., English, Rhetoric and Composition, Washington State University.

RYTTING, Bryce (2001); *Professor*. Faculty, Music; B.S., Music Theory, University of Utah; M.F.A., Ph.D., Musicology, Princeton University.

S

SIMONS, Joe (2018); *Lectuer*. Faculty, Mathematics; B.S., M.S., Mathematics, Brigham Young University.

SMIDT, Michael (2018); *Assistant Professor*. Faculty, Criminal Justice/Law Enforcement; B.A., Business Administration, National University; M.S., Strategic Studies, US Army War College; J.D., Law, California Western School of Law; LL.M., University of Virginia School of Law.

SMITH, John (2018); *Professor*. Faculty, Elementary Education; B.S., Elementary Education, Brigham Young University; M.A., Elementary Curriculum, University of Utah; Ph.D., Curriculum & Instruction, University of North Carolina, Chapel Hill.

SIMMONS, Skyler (2018); *Assistant Professor*. Faculty, Mathematics; B.S., M.S., Ph.D., Mathematics, Brigham Young University.

SAITO, Yasuko (2015); *Lecturer*. Faculty, Languages & Cultures; B.A., Spanish, Brigham Young University, M.A., Asian Studies, Seton Hall University.

SALEHI, Sayed (2017); *Assistant Professor*. Faculty, Computer Science; B.S., Electrical Engineering, Malek Ashtar University of Technology, Iran; M.S., Electrical Engineering, Isfahan University of Technology, Iran; M.S., Ph.D., Electrical Engineering, University of Minnesota.

Administration and Faculty

- SAMAD, Abdus** (2002); *Professor*. Faculty, Finance & Economics; B.A., Economics, Rajshai University, Bangladesh; M.A., Economics, Lakehead University, Canada; Ph.D., Economics, University of Illinois, Chicago.
- SANATI-MEHRIZY, Reza** (2001); *Professor*. Faculty, Computer Science; B.S., Business Administration, Rasht Commercial College; M.S., Ph.D., Computer Science, University of Oklahoma.
- SANDERS, Farah** (2009); *Lecturer*. Faculty, Communication; B.S., Integrated Studies, Utah Valley University, M.Ed., Education, Southern Utah University.
- SANFT, Marni** (2002); *Associate Professor*. Faculty, Student Leadership & Success Studies; B.A., English, Brigham Young University; M.A., Teaching in English, Duke University.
- SAWYER, Michaela** (2006); *Associate Professor*. Faculty, Philosophy & Humanities; M.A., English, Washington University; M.A., American Studies, Heinrich-Heine University; Ph.D., English, Washington University.
- SAWYER, Robert** (2011); *Associate Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., M.S., Physical Education, Utah State University; Ph.D., Exercise Science, Brigham Young University.
- SCHLOSNGLE, Leo** (2015); *Assistant Professor*. Faculty, Behavioral Science; A.S., Computer Science, Garrett College; B.A., Psychology, St. Mary's College of Maryland; Ph.D., Psychology, West Virginia University.
- SCHULTZ, Jennifer** (2017); *Associate Professor*. Faculty, Strategic Management & Operations; B.S., Philosophy, University of Wisconsin; M.Ed., Student Personal in HE, University of Georgia; M.B.A., Management, Our Lady of the Lake University; Ph.D., Human Resource Development, University of Minnesota.
- SCHWAB, Greg** (2008); *Professor*. Faculty, Aviation Science; B.A., Aeronautics, M.S., Aviation Management, M.B.A., Aviation, Embry-Riddle Aeronautical University; Ed.D., Nova Southeastern University.
- SCOTT, David** (2008); *Professor*. Faculty, Communication; B.S., Political Science, B.S., Speech Communication, University of Utah; M.A., Communications, Brigham Young University; Ph.D., Mass Communication, University of Georgia.
- SEAGROVE, Frey** (2015); *Assistant Professor*. Faculty, Nursing; A.S., Nursing, B.S., Behavioral Science, Nursing, Utah Valley University; M.S.N., University of Utah.
- SEARLE, Scott** (2014); *Lecturer*. Faculty, Engineering Technology; Master Electrician
- SEELEY, Eugene** (1995); *Associate Professor*. Faculty, Strategic Management & Operations; B.A., French, Brigham Young University; M.I.M., American Graduate School of International Management; Ph.D., Business Administration, University of Utah.
- SELLAND, Makenzie** (2012); *Assistant Professor*. Faculty, Secondary Education; B.A., English, Spanish, Social Work, Northern Arizona University; M.Ed., Secondary English Education, George Washington University; Ph.D.(ABD), Instruction & Curriculum, University of Colorado, Boulder.
- SELVARAJAN, Sowmya** (2012); *Assistant Professor*. Faculty, Engineering Design Technology; B.E., Geoinformatics, Anna University, India; M.Eng., GIS and Remote Sensing; Notional University of Singapore; Ph.D., Geomatics, University of Florida.
- SERMON, Tracy** (2001); *Sr. Lecturer*. Faculty, Elementary Education; B.S., MHSD Early Childhood/Elementary Education, Virginia Polytechnic Institute; M.S., Family Science, Brigham Young University.
- SHARP, Ann** (2009); *Associate Professor*. Faculty, Elementary Education; B.S., Elementary Education, M.S., Education, Educational Studies, University of Utah; Ph.D., Educational Psychology, University of Nevada, Las Vegas.
- SHARP, Craig** (2016); *Lecturer*. Faculty, Computer Science; B.S., Architecture, Ball State University; M.S., Computer & Information Sciences, College of Charleston; Ph.D. (ABD), Computer Sciences, University of South Carolina.
- SHAW, Michael** (2003); *Professor*. Faculty, Philosophy & Humanities; Coordinator, Classical Studies, Interdisciplinary Studies Program; B.A., Philosophy, Bates College; M.A., Philosophy, Ph.D., Philosophy, Villanova University.
- SHELTON, Linda** (2000); *Senior Lecturer*. Faculty, English & Literature; B.A., Speech/Drama Secondary Education; M.A., Communications, Brigham Young University.
- SHIVELY, Michael** (1992); *Professor*. Faculty, Biology; M.S., Ph.D., Anatomy, D.V.M., Purdue University.
- SHURTLEFF, James** (2012); *Assistant Professor*. Faculty, Chemistry; B.S., Chemistry, M.B.A., Business Administration, Ph.D., Physical Chemistry, Brigham Young University.
- SIMON, Alexander** (2011); *Associate Professor*. Faculty, Behavioral Science; B.S., Psychology, M.A., Sociology, State University of New York, Albany; Ph.D., Sociology, Simon Fraser University.
- SIMON, Leslie** (2011); *Associate Professor*. Faculty, Philosophy & Humanities; B.A., English Literature, Texas A&M University; M.A., Ph.D., English & Literature, Boston University.
- SLEZAK, Cyrill** (2013); *Associate Professor*. Faculty, Physics; B.A., Physics & Music Performance, Adams State College; M.S., Ph.D., Physics, University of Cincinnati.
- SMITH, Doreen** (2014); *Lecturer*. Faculty, Information Systems & Technology; A.A.S., Secretarial Technology, B.S., Business Education, Southern Utah University; M.Ed., Professional-Technical & Technology Education, University of Idaho.
- SMITH, Doug** (2011); *Associate Professor*. Faculty, Music; B.M., Music Education, Central Missouri State University; M.M., Rice University, D.M.A.(ABD), Musical Arts, University of Arizona.
- SMITH, Gregory Richard** (2015); *Visiting Professional in Residence*. Faculty, Strategic Management & Operations; B.A., International Relations, Brigham Young University; M.B.A., International Business, University of South Carolina.
- SMITH, Hyrum** (2013); *Assistant Professor*. Faculty, Finance & Economics; B.S., Accounting, Utah State University; M.B.A., Business, University of Utah; Ph.D., Personal Financial Planning, Texas Tech University.
- SMITH, Kevin** (2010); *Associate Professor*. Department Chair, Accounting; Faculty, Business Graduate Programs; B.A., Accountancy, M.A., Accounting, Brigham Young University; Ph.D., Accounting, University of Arizona.
- SMITH, Lynn** (2010); *Lecturer*. Faculty, Accounting; B.S., M.Acc., Accounting, Brigham Young University.
- SMITH, Sheldon** (2001); *Professor*. Faculty, Accounting; B.S., Accounting, M.B.A., M.Acc, Brigham Young University; Ph.D., Accounting, Michigan State University.
- SMITH, Sidney** (2003); *Associate Professor*. Faculty, Engineering Design Technology; A.A.S., Drafting Technology, Utah Technical College; A.A.S., Electronics Technology, Utah Valley Community College; B.S., Technology Management, Utah Valley University.
- SMITH, Thomas** (2012); *Associate Professor*. Faculty, English & Literature; B.A., English Education, Brigham Young University; M.S., Curriculum & Instruction, Ph.D., Teacher Education, University of Nevada.
- SNEDEGAR, Keith** (1993); *Professor*. Faculty, History & Political Science; B.A., History, University of Michigan; M.S., English/Latin, University of Edinburgh; D.Phil., Modern History, University of Oxford.
- SONG, Jae** (2008); *Associate Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, M.S., Statistics, Brigham Young University; B.S., Mathematics Education, Utah Valley University.
- SORENSEN, D.** (2012); *Artist in Residence*. Faculty, Music; B.A., Music, Brigham Young University.
- SORTORE, Jeremy** (2016); *Assistant Professor*. Faculty, Theatrical Arts for Stage & Screen; M.F.A., Voice & Speech Pedagogy, Moscow Art Theatre, M.M., B.M., Vocal Performance, University of Colorado.
- SOTOMAYOR, Maritza** (2009); *Associate Professor*. Faculty, Finance & Economics; B.A., Economics, Papal Catholic University of Peru; M.A., Economics, Ceter of Investigation and Economic Teaching, Mexico; Ph.D., Applied Economics, Autonomous University of Barcelona, Spain.
- SOWDER, Mary** (2008); *Associate Professor*. Faculty, Elementary Education; B.A., Music, Chapman University; M.S., Computer Education, NOVA Southeastern University; Ph.D., Teacher Education, University of Nevada.
- SPROAT, Ethan** (2013); *Assistant Professor*. Faculty, English & Literature; B.A., English, Philosophy, M.A., English/Rhetoric, Brigham Young University; M.A., Science Fiction Studies, University of Liverpool, Ph.D., English Rhetoric & Composition, Purdue University.
- SPROUL, Peter** (2007); *Associate Professor*. Faculty, Culinary Arts Institute; A.A.S., Restaurant Management & Operations, State University of New York.
- STANDIFIRD, Tyler** (2015); *Assistant Professor*. Faculty, Exercise Science & Outdoor Recreation; B.S., Exercise Science, University of Utah; M.S., Exercise Science,

Brigham Young University; Ph.D., Kinesiology & Sports Studies, University of Tennessee - Knoxville.

STEARNS, Michael (2017); *Assistant Professor*. Faculty, Earth Science; B.A., Geology and Geography, Michigan State University; M.S., Geology and Geophysics, University of Utah; Ph.D., Earth Science, University of California.

STEELE-MAKASCI, Nancy (2008); *Associate Professor*. Faculty, Art & Design; B.A., Visual Arts Education, M.A., Printmaking and Painting, Ball State University; M.F.A., Printmaking and Drawing, University of Nebraska-Lincoln.

STENCIL, Eric (2012); *Assistant Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy & History, Bowling Green State University; M.A., Ph.D., Philosophy, University of Wisconsin-Madison.

STEPHEN, Daniel (2003); *Associate Professor*. Faculty, Earth Science; Coordinator, Environmental Studies, Interdisciplinary Studies Program; B.S., M.S., Geology, University of Arkansas; Ph.D., Geology (Invertebrate Paleontology), Texas A & M University.

STEVENS, Michael (2010); *Professor*. Faculty, Biology; B.S., Conservation Biology, Brigham Young University; M.S., Ph.D., Botany, University of Wisconsin-Madison.

STEWART, Perry (2000); *Associate Professor*. Faculty and Faculty, Art & Design; AAS, Technical Biology, Brigham Young University - Idaho; B.F.A., M.F.A., Illustration, Utah State University.

STRATTON, Scott (2015); *Lecturer*. Faculty, Finance & Economics; B.S., Information Systems, Business Administration, University of Utah; M.S., Personal Finance, J.D., Texas Tech University.

SUN, Xu (Kiera) (2015); *Assistant Professor*. Faculty, Finance & Economics; B.A., Finance, Henan University of Economics & Law; M.B.A., Ph.D., Finance, The University of Texas - Pan American.

SUTLIFF, Daniel (2016); *Professional in Residence*. Faculty, Aviation Science; B.S., Business/Aviation, State University of New York; M.A.S., Aeronautical Science, Embry-Riddle Aeronautical University.

SWENSON, Allison (2010); *Associate Professor*. Faculty, Nursing; AS, Nursing, Utah Valley University; B.S., Nursing, Utah Valley University; MSN, Nursing, Utah Valley University

SYLVESTER, Steven (2016); *Assistant Professor*. Faculty, History & Political Science; B.A., M.A., Political Science, California State University, Chico; Ph.D., Political Science, University of Kansas.

T

THORNOCK, Christopher (2018); *Assistant Professor*. Faculty, Art & Design; BFA, Fine Art, Art Center of Design; MFA, Studio Art, Brigham Young University - Provo

TROUTT, Jack (2018); *Assistant Professor*. Faculty, Aviation Science; B.S., Aviation Management, M.S., Ed.D., Aviation Sciences, Oklahoma State University.

TALBERT, Mark (2003); *Professor*. Faculty, Art & Design; B.A., Art Education, Fairmont State College; M.A., Ceramics/Sculpture, Indiana University of Pennsylvania; M.F.A., Ceramics/Sculpture, Utah State University.

TANG, Jingpeng (2014); *Associate Professor*. Faculty, Computer Science; B.S., Engineering, Southwest Jiaotong University; M.S., Computer Science, Engineering, Ph.D., Computer Science, North Dakota State University.

TAUZIN, Sebsten (2016); *Assistant Professor*. Faculty, Biology; B.S., M.S., Biological Sciences, University of Bordeaux1; Ph.D., Cell Biology & Physiopathology, University of Geneva.

TAYLOR, Danielle (2017); *Lecturer*. Faculty, Biology; B.S., Psychology, Ph.D., Neuroscience, Arizona State University.

TAYLOR, Darin (1992); *Professor*. Faculty, Engineering Design Technology; A.A.S., Drafting Technology, Utah Technical College; B.S., Technology Management, Utah Valley State College; M.Ed., Instructional Technology, Utah State University.

TAYLOR, Devin (2016); *Lecturer*. Faculty, Biology; B.S., Behavioral Science, Utah Valley University; M.S., Psychology, Brigham Young University; Ph.D., Neuroscience, Arizona State University.

TAYLOR, James (2017); *Assistant Professor*. Faculty, Behavioral Science; B.S., Psychology, University of Utah; M.S., Ph.D., Experimental Psychology, Texas Christian University.

TAYLOR, Matthew (2016); *Assistant Professor*. Faculty, Theatrical Arts; B.A., Theatre, Winthrop University; M.F.A., Theatre Lighting Design, University of Florida.

TAYLOR, Zachery (2015); *Assistant Professor*. Faculty, Automotive Technology; B.S., Technology Teaching Education, Brigham Young University; B.S., Technology Management, Utah Valley University.

TEMPLE, Walter (2016); *Assistant Professor*. Faculty, Languages & Cultures; B.A., French, Elon College; M.A., French Literature, American University; Ph.D., Romance Studies, University of Miami.

THACKERAY, Lynn (2015); *Lecturer*. Faculty, Computer Science; B.S., Design Engineering & Computer Graphics Technology, Brigham Young University; M.S., Instructional Technology, Utah State University; Ph.D., Education, Northeastern University.

THACKERAY, Susan (2015); *Assistant Professor*. Faculty, Technology Management; A.A.S., B.S., Multi-media Communications, Utah Valley State College; M.Ed., Education, Instructional Technology, Utah State University; Ph.D., Education, Curriculum, Teaching & Learning, Northeastern University.

THOMAS, John (2010); *Associate Professor*. Faculty, Culinary Arts Institute; AAS, Culinary Arts, Utah Valley University; B.B.A., Accounting, Texas Tech University.

THORNTON, Debra (1998); *Professor*. Faculty, English & Literature; B.A., M.A., English, Brigham Young University; Ph.D., English, University of New Mexico.

THULIN, Craig (2006); *Professor*. Faculty, Chemistry; B.A., Biology, University of Utah; Ph.D., Biochemistry, University of Washington.

TOKE, Nathan (2011); *Associate Professor*. Faculty, Earth Science; B.S., Geology, University of Vermont; M.S., Ph.D., Geological Sciences, Arizona State University.

TOLMAN, Anton (2006); *Professor*. Faculty, Behavioral Science; B.A., Psychology, University of Denver; M.A., Psychology, Ph.D., Clinical Psychology, University of Oregon.

TOLMAN, Richard (2002); *Professor*. Faculty, Biology; B.S., General Science Composite, M.S.Ed., Science Education, University of Utah; Ph.D., Science Education, Oregon State.

TOLMAN, Sean (2011); *Associate Professor*. Faculty, Engineering Technology; B.S., Ph.D., Mechanical Engineering, Brigham Young University; M.S., Mechanical Engineering, University of Utah.

TORLINA, Jeffrey (2005); *Associate Professor*. Faculty, Behavioral Science; AA, Liberal Arts, Oakland Community College; B.A., Sociology, Oakland University; Ph.D., Sociology, University at Albany, State University of New York.

TREGO, Angela (2013); *Assistant Professor*. Faculty, Technology Management; B.S., M.S., Ph.D., Mechanical Engineering, Brigham Young University.

TRIM, Robert (2004); *Associate Professor*. Faculty, Digital Media; B.A., Communications, Brigham Young University; M.B.A., University of Phoenix.

TRUJILLO, Doris (2001); *Professor*. Department Chair, Dance; B.F.A., Modern Dance, University of Utah; M.A., Modern Dance, Brigham Young University.

TRUSCOTT, Brandon (2015); *Associate Professor*. Faculty, Art & Design; B.A., Studio Art/Graphic Design, Humboldt State University; M.Ed., Cross-Cultural Teaching, National University; M.F.A., Design & Technology, San Francisco Art Institute.

TUFT, Elaine (2006); *Associate Professor*. Faculty, Elementary Education; B.A., Elementary & Early Childhood Education, M.A., Elementary Education, Utah State University; Ph.D., Curriculum, Teaching & Educational Policy, Michigan State University.

U

ULLOA, Sara (2003); *Associate Professor*. Department Chair and Faculty, Languages & Cultures; B.A., Spanish Translation and Communications, M.A., Spanish Linguistics, Brigham Young University; PhD, Instructional Psychology & Technology, Brigham Young University - Provo

V

VAN BUREN, Renee (1995); *Professor*. Faculty, Biology; B.S., M.S., Botany, Brigham Young University; Ph.D., Botany, Arizona State University.

VAN DE GRAAF, Kara (2016); *Assistant Professor*. Faculty, English & Literature; B.A., Literature & Creative Writing, Purdue University; M.F.A., Poetry, University of Pittsburgh; Ph.D., English, University of Wisconsin, Milwaukee.

VAN FRANKENHUIJSEN, Machiel (2003); *Professor*. Faculty, Mathematics; Ph.D., Mathematics, Katholieke Universiteit Nijmegen.

VAN WAGONER, Marty (2017); *Professional in Residence*. Faculty, Accounting; B.A., M.B.A., Accounting, University of Utah.

Administration and Faculty

VASILEVSKA, Violeta (2010); *Associate Professor*. Faculty, Mathematics; B.S., M.S., Mathematics, Ss. Cyril and Methodius University; Ph.D., Mathematics, The University of Tennessee.

VINCENT, Marcus (2005); *Associate Professor*. Faculty, Art & Design; B.A., Fine Arts, M.F.A., Painting and Drawing, Brigham Young University.

VOGEL, Charles (1995); *Associate Professor*. Faculty, English & Literature; B.A., English Literature, M.A., English, Brigham Young University; Ph.D., English, University of California.

VOGEL, Ryan (2015); *Assistant Professor*. Faculty, Criminal Justice/Law Enforcement; B.S., Integrated Studies, Utah Valley University; M.A., International Affairs, J.D., American University; J.D., LL.M., Public International Law, Georgetown University.

VOGEL, Sandra (1994); *Associate Professor*. Faculty, English & Literature; B.A., M.A., English, Brigham Young University.

W

WHITE, Justin (2018); *Assistant Professor*. Faculty, Earth Science; B.S., Geographic Sciences, James Madison University; M.S., Geography, Virginia Tech; Ph.D., Geography, University of Nevada.

WADDINGTON, Dan (2015); *Assistant Professor*. Faculty, Criminal Justice/Law Enforcement; B.S., Justice Administration, Brigham Young University; M.P.A., California State University; Ph.D., Criminal Justice, University of Albany.

WADDOUPS, Stacy (1993); *Associate Professor*. Faculty, Student Leadership & Success Studies; B.S., Social Studies Composite, M.Ed., Elementary Education/Reading Specialist, Brigham Young University.

WAGER, Jans (1997); *Professor*. Faculty, English & Literature; B.A., Distributed Studies (Communication Emphasis), University of Colorado; M.A., German, Ph.D., Comparative Literature, University of California.

WAGSTAFF, David (2015); *Lecturer*. Faculty, Computer Science; B.S., Computer Science, Brigham Young University; M.S., Computer Science, Walden University.

WAITE, Bryan (2007); *Associate Professor*. Department Chair, Secondary Education; Faculty, Education Graduate Programs; B.A., Spanish, University of Texas; M.A., Spanish Education, Ph.D., Social Multicultural and Bilingual Education, University of Colorado.

WALKER, Christine (1992); *Professor*. Faculty, Mathematics; A.S., Mathematics, Ricks College; B.A., M.A., Mathematics Education, Brigham Young University; Ed.D., Curriculum and Instruction, Utah State University.

WALKER, Kent (2007); *Associate Professor*. Faculty, Automotive Technology; A.A.S., Heavy Equipment Mechanics, Utah Technical College; B.S., Business Management, Brigham Young University; M.Ed., Instructional Technology, Utah State University.

WALKER, William (2015); *Assistant Professor*. Faculty, Engineering Technology; B.S., Electronic Engineering, M.B.A., Weber State University; Ph.D. (ABD), Educational Leadership, University of Nevada, Las Vegas.

WALLACE, Lorraine (2005); *Associate Professor*. Faculty, English & Literature; AA, College of Southern Idaho; B.A., Secondary Education, Idaho State University; M.Ed., Educational Leadership, Brigham Young University.

WALSH, Robert (2002); *Professor*. Faculty, Public & Community Health; B.S., Health Education, Brigham Young University; M.H.E., Health Education, Idaho State University; Ed.D., Health Education, University of Idaho.

WANG, Weihong (2012); *Assistant Professor*. Faculty, Earth Science; B.Sc., Geophysics, M.Sc., Environmental Geology, Jiangnan Petroleum University; M.Sc., Geology, Iowa State University; Ph.D., Marine Science, University of South Carolina.

WARBURTON, Trevor (2017); *Assistant Professor*. Faculty, Secondary Education; B.A., Mathematics and Spanish, Utah State University; M.A., Teaching English as a Second Language, Pennsylvania State University; Ph.D., Education, Culture, and Society, University of Utah.

WARCUP, Robert (2009); *Associate Professor*. Department Chair and Faculty, Construction Technologies; B.S., Construction Management, Brigham Young University; M.B.A., University of Nevada; Ph.D., Technology & Engineering Education, Utah State University.

WARD, Debra (2017); *Assistant Professor*. Faculty, Developmental Mathematics; B.S., Mathematics, M.Ed., Ph.D., Mathematics Education, Texas State University.

WARMBIER, H. (2014); *Lecturer*. Faculty, Strategic Management & Operations; B.S., Computer Science, Wilhelm-Buchner Hochschule, Germany; M.B.A., Business, Utah Valley University.

WARNE, Russell (2011); *Associate Professor*. Faculty, Behavioral Science; B.S., Psychology, Brigham Young University; Ph.D., Educational Psychology, Texas A&M University.

WASDEN, Cary (2015); *Professional in Residence*. Faculty, Finance & Economics; B.S., Zoology, M.P.A., Business Development, Brigham Young University; Ph.D. (ABD), International Finance & Economics, Ohio State University.

WASSERBAECH, Steven (2002); *Professor*. Faculty, Physics; B.S., Mathematics, B.S., Physics, University of Utah; Ph.D., Physics, Stanford University.

WATERS, Blake (2017); *Assistant Professor*. Faculty, Public & Community Health; B.U.S., Environmental Health, M.P.A., Public Administration, Ph.D., public Health University of Utah.

WATERS, Sandie (2008); *Associate Professor*. Faculty, Elementary Education; B.A., Sociology, St. Mary's University; M.A., Instructional Systems Technology, Indiana University; Ph.D., Instructional Technology, Utah State University.

WATHEN, Mark (2014); *Associate Professor*. Faculty, Chemistry; B.S., Chemistry, M.S., Organic Chemistry, Utah State University; Ph.D., Chemical Education, University of Northern Colorado.

WAYMAN, Mina (2003); *Associate Professor*. Faculty and Faculty, Nursing; AS, Nursing, Brigham Young University - Provo; B.S.N., Nursing, M.S.N., Geriatric Nurse Practitioner, University of Utah.

WEBER, Paul (2012); *Associate Professor*. Faculty, Physics; B.S., Physics & Mathematics, Bemidji State University; M.S., Physics, Ph.D., Experimental Particle Physics, University of Colorado.

WEIGEL, Christine (2002); *Professor*. Faculty, Philosophy & Humanities; B.A., Philosophy, B.M., Music Performance, Lawrence University; M.A., Ph.D., Philosophy, Temple University.

WELBORN, Curtis (2005); *Professor*. Faculty, Computer Science; BBA, Business Administration, University of Texas - Arlington; M.S., Computer Science, University of Texas at El Paso; Ph.D., Computer Science, Texas Tech University.

WESTOVER, Jonathan (2008); *Associate Professor*. Faculty, Organizational Leadership; B.S., Sociology (emphasis in Research and Analysis, Business Minor, Korean Minor), M.P.A., Human Resources and Organizational Behavior, Brigham Young University; M.S., Sociology, Ph.D., Sociology, University of Utah.

WHALEY, Brian (2003); *Associate Professor*. Faculty, English & Literature; B.A., History, University of California at Santa Barbara; M.A., English, University of Montana; Ph.D., English, University of Oregon.

WHALEY, Wayne (1991); *Professor*. Faculty, Biology; B.S., Ph.D., Zoology, Brigham Young University; M.S., Wildlife Ecology, University of Arizona.

WHEATLEY, Laura (2016); *Lecturer*. Faculty, Exercise Science & Outdoor Recreation; B.A., Social Sciences Education, M.S., Exercise Physiology, Illinois State University; Ph.D., (ABD), Exercise Physiology, University of Utah.

WHITE, Keith (2005); *Associate Professor*. Department Chair and Faculty, Developmental Mathematics; B.S., M.S., Mechanical Engineering, Brigham Young University.

WHITE, Lilia (2016); *Lecturer*. Faculty, Chemistry; M.S., Chemical Engineering, Moscow University of Chemical Technology.

WIBERG, Darren (2000); *Associate Professor*. Faculty, Developmental Mathematics; AA, General Studies, Columbia Basin College; B.A., Mathematics, Teaching Secondary, M.A.T., Mathematics, Central Washington University.

WILBER, Jason (2016); *Lecturer*. Faculty, Languages & Cultures; B.A., Spanish, M.A., Hispanic Linguistics, Brigham Young University.

WILKEY, Patrick (2007); *Associate Professor*. Faculty, Art & Design; B.F.A., M.F.A., Graphic Design, Utah State University.

WILLIAMS, Brice (2001); *Associate Professor*. Faculty, Aviation Science; B.S., Engineering Science and Technology, Brigham Young University; M.Ed., Utah State University.

WILLIAMS, Christopher (2016); *Assistant Professor*. Faculty, Dance; B.A., Spanish, Brigham Young University; M.Ed., Instructional Curriculum, Utah Valley.

WILLIAMS, Lynda (2011); *Lecturer*. Faculty, Secondary Education; B.S., Liberal Studies, Westmont College; M.S., Curriculum & Instruction, California State University, Fullerton.

WILLIAMS, Scott (2007); *Associate Professor*. Faculty, Exercise Science & Outdoor Recreation; B.A., German Studies, Weber State University; M.S., Recreation, M.S., Business Management, Ph.D. (ABD), Health & Human Performance, University of Florida.

WILLIAMS-SCHULTZ, Lashawn (2016); *Assistant Professor*. Faculty, Behavioral Science; B.A., Sociology, Duke University; BA, Psychology, Duke University; M.P.A., Criminal Justice, M.S.W., Marywood University; Ph.D., (ABD), Health Professions Education, College of Saint Mary.

WILSON, Bruce (2001); *Associate Professor*. Faculty, Chemistry; B.S., M.S., Chemistry (minor Physics), Brigham Young University; Ph.D., Chemistry, Texas A&M University.

WILSON, David (2001); *Associate Professor*. Faculty, History & Political Science; B.A., History and Classical Antiquities, M.A., Classics, University of Kansas; Ph.D., U.S. History, Brigham Young University.

WILSON, Don (1995); *Associate Professor*. Department Chair and Faculty, Automotive Technology; A.A.S., Collision Repair Technology, B.S., Technology Management, Utah Valley State College; M.Ed., Instructional Technology, Utah State University.

WILSON, Sandra (2015); *Associate Professor*. Faculty, Allied Health; A.A.S., Dental Hygiene, Colorado Northwestern Community College; B.A., Broadcast Journalism, Brigham Young University; M.A., Curriculum & Instruction, Colorado Christian University.

WILSON, Troy (2001); *Associate Professor*. Faculty, Culinary Arts Institute; A.O.S., The Culinary Institute of America, Certified Executive Chef.

WILSON-ASHWORTH, Heather (2000); *Professor*. Faculty, Biology; B.A., Math Education, Ph.D., Physiology and Anatomy, Brigham Young University.

WINANS, Adrienne (2015); *Assistant Professor*. Faculty, History & Political Science; B.A., History, University of Chicago; M.A., World History, New York University; Ph.D., History, Ohio State University.

WISLAND, Michael (2003); *Associate Professor*. Faculty, Digital Media; B.S., M.S., Electrical Engineering, University of Missouri.

WITESMAN, J. David (2016); *Assistant Professor*. Faculty, Accounting; B.S., Accounting, M.Acc., Taxation, Weber State University; Ph.D., Business Administration, Syracuse University.

WITT, Christopher (2007); *Associate Professor*. Faculty, Dance; B.S., Business Management, M.A., Dance, Brigham Young University.

WONG, Cynthia (2015); *Assistant Professor*. Faculty, Student Leadership & Success Studies; B.A., Psychology, Brigham Young University, Hawaii; M.M.F.T., University of Southern California; Ed.D., Educational Psychology, University of Southern California.

WOODWARD, Scott (2016); *Lecturer*. Faculty, Biology; A.S., College of Eastern Utah; B.S., Biology, Ph.D., Genetics, Utah State University.

WORKMAN, Letty (2000); *Associate Professor*. Faculty, Marketing; B.A., Philosophy, University of Missouri-St. Louis; M.B.A., Marketing, Southern Illinois University-Carbondale; Ph.D., MIS/Marketing Education, Utah State University.

WORTHEN, Cherilyn (2011); *Assistant Professor*. Faculty, Music; B.M., Choral Music Education, M.M., Choral Conducting, Brigham Young University.

Y

YAMEN, Sharon (2013); *Assistant Professor*. Faculty, Organizational Leadership; B.A., Anthropology, State University of New York; J.D., Hofstra University.

YOAST, Tiffany (2011); *Lecturer*. Faculty, Student Leadership & Success Studies; B.S., English, Utah Valley University; M.S., Education, Nova Southeastern University.

YOUNG, Christopher (2015); *Assistant Professor*. Faculty, Art & Design; B.F.A., Brigham Young University.

YOUNG, Kathleen (2015); *Assistant Professor*. Faculty, Allied Health; A.S., Dental Hygiene, Cabrillo College; B.S., Dental Hygiene, Utah Valley University; M.Ed., Instructional Technology, University of Utah.

YOUNG, Travas (2010); *Visiting Assistant Professor*. Faculty, Languages & Cultures; B.S., Geography, Utah State University; M.A., Linguistics, Gallaudet University.

YU, Ming (2016); *Assistant Professor*. Faculty, Chemistry; B.S., Chemical Engineering, Heilongjiang University, China; Ph.D., Chemistry, Colorado State University.

YUAN, Guofang (2010); *Associate Professor*. Faculty, Languages & Cultures; B.A., English Language and Literature and Teaching, Shanghai Teachers' University; M.A., English Teaching, Beijing Normal University; Ph.D., Educational Policy, Cleveland State University.

Z

ZAHN, Geoffrey (2017); *Assistant Professor*. Faculty, Biology; M.S., Biology, Missouri State University; Ph.D., Biology, University of Arkansas.

ZANAZZI, Alessandro (2011); *Associate Professor*. Faculty, Earth Science; B.S., M.S., Geology, University of Padua, Italy; M.S., Geology, Iowa State University; Ph.D., Geology, University of South Carolina.

ZHU, Yingxian (2002); *Associate Professor*. Faculty, Mathematics; B.S., Mathematics, Anhui University, China; M.S., Mathematics, Dalian University of Science and Technology, China; Ph.D., Mathematics (Graph Theory), Arizona State University.

Administration

GENERAL OFFICERS

- **President, Matthew S. Holland** (2009)
 - B.A., Political Science, Brigham Young University; M.S., Ph.D., Political Science, Duke University
- **Senior Vice President, Academic Affairs, Jeffery E. Olson** (2014)
 - B.A., English, J.D., Law, University of Utah; Ph.D., Higher Education Administration and Policy, Stanford University
- **Vice President, Development & Alumni, Scott W. Cooksey** (2016)
 - B.B.A., Marketing, Texas Tech University; Certified Fundraising Executive (CFRE)
- **Vice President, Finance & Administration, Val L. Peterson** (1988)
 - B.A., M.S., Strategic Studies, U.S. War College; M.A., Mass Communication, Ph.D., Educational Leadership, Brigham Young University
 -
- **Vice President, Student Affairs, Kyle A. Reyes**(2003)
 - B.S., Graphic Design, M.Ed., Educational Leadership, Brigham Young University; Ph.D., Educational Leadership and Policy, University of Utah
 -
- **Vice President, University Relations, Cameron K. Martin** (2012)
 - B.S., Political Science and Gerontology, M.P.A., Public Administration, Ph.D., Educational Leadership, Brigham Young University
 -
- **Vice President, Planning, Budget, & Human Resources, Linda J. Makin** (1980)
 - B.S., Accounting, Utah Valley University; M.P.A., Brigham Young University
 -

PRESIDENT'S OFFICE

- **President, Matthew S. Holland** (2009)
 - B.A., Political Science, Brigham Young University; M.S., Ph.D., Political Science, Duke University
- **Chief of Staff and Executive Secretary to the Board, Justin D. Jones** (2016)
 - B.S., Business Administration, Utah Valley University; M.A., Transportation Management, University of Denver

ACADEMIC AFFAIRS

- **Senior Vice President, Jeffery E. Olson** (2014)
 - B.A., English, J.D., Law, University of Utah; Ph.D., Administration and Policy Analysis (concentration in Higher Education), Stanford University
- **Associate Vice President, Academic Programs, David Connelly**
 - B.A., History, M.P.A., Marriott School of Management, Brigham Young University; Ph.D., Public Administration, SUNY Albany
- **Associate Vice President, Academic Administration, Kathren Brown** (2002)
 - B.A., History, Alma College; M.A., Ph.D., Russian History, Bowling Green State University
- **Associate Vice President, Community Outreach & Economic Development, Jessica Gilmore** (2017)
 - B.A., Speech Communication, Central Washington University; M.A.C.E., Computer Education, Gonzaga University; Ed.D. (ABD), Education in Leadership, City University of Seattle
- **Associate Vice President, Engaged Learning, TBA**
- **Dean, College of Humanities & Social Sciences, Steven Clark** (2000)
 - B.S., Psychology, Brigham Young University; M.A., Ph.D., Psychology, University of New Hampshire
- **Associate Dean, College of Humanities & Social Sciences, Janet Colvin** (2007)
 - Associate Professor. Department Chair and Faculty, Communication; B.A., Public Relations, Brigham Young University; M.A., Instructional Technology, Ph.D., Speech Communication, University of Utah.
- **Assistant Dean, College of Humanities & Social Sciences, Toni Harris** (2008)
 - B.S., Business Management, M.B.A., Business Administration, Alameda University
- **Dean, College of Science, Daniel Fairbanks** (2008)
 - B.S., Portuguese/Agronomy, Brigham Young University; M.S., Plant Breeding, University of Minnesota; Ph.D., Agronomy and Plant Genetics, University of Arizona
- **Associate Dean, College of Science, Daniel Horns** (1997)
 - B.S., Applied Geophysics, UCLA; Ph.D., Geology (Tectonics, Structural Geology), U.C. Davis
- **Associate Dean, College of Science, Jason Slack** (2000)

- B.A., Physical Education, Southern Utah University; M.S., Exercise Physiology, Brigham Young University; Ph.D., Exercise and Sport Science, University of Utah
- **Assistant Dean, College of Science, Jim Murphy** (2014)
- B.S., Music Education, M.Ed., Educational Psychology, Brigham Young University
- **Dean, College of Engineering & Technology, Saeed Moaveni** (2017)
- B.S.M.E., Mechanical Engineering; M.S., Engineering Systems, The University of Louisiana; Ph.D., Mechanical Engineering, Colorado State University
- **Associate Dean, College of Engineering & Technology, Abraham Teng** (2002)
- B.S., Naval Architecture, National Taiwan University; M.S., Ph.D., Mechanical Engineering, Brigham Young University
- **Interim Associate Dean, College of Engineering & Technology, Anne Arendt** (2011)
- B.A., M.B.A., University of Minnesota; M.S., Walden University; Ed.D., Utah State University
- **Dean, College of Health & Public Service, David A. McEntire** (2016)
- B.A., International Relations/Spanish, Brigham Young University; M.A., International Politics, Ph.D., International Politics, Comparative Politics, and Policy Analysis, University of Denver
- **Associate Dean, College of Health & Public Service, Thomas Sturtevant** (2012)
- A.S., General Studies/Fire Science, Georgia Military College; B.S., Applied Organizational Management, Tusculum College; M.P.A., Public Policy, Ed.D., Education, University of Tennessee
- **Assistant Dean, College of Health & Public Service, Barbara Burr** (2015)
- B.S., Sociology, Brigham Young University; M.H.A., Health Administration; University of La Verne
- **Assistant Dean, College of Health & Public Service, Dustin Berlin** (2006)
- B.S., Aviation Professional Pilot, Utah Valley University; M.B.A., Liberty University
- **Dean, School of Education, Parker Fawson** (2013)
- B.A., Elementary Education, Weber State University; M.Ed., Educational Administration, Ed.D., Reading, Brigham Young University
- **Associate Dean, School of Education, Stan Harward** (2006)
- B.S., Elementary Education; M.S., Curriculum Development and Instruction, Ed.D., Reading, Brigham Young University
- **Dean and Creative Director, School of the Arts, Stephen Pullen** (2017)
- B.A., Acting, Playwriting, Classical Texts, Directing, Brigham Young University; M.F.A., Cinematic Arts, Film and Television Production, University of Southern California; Diploma Drama Studies, London Academy of Music and Dramatic Arts
- **Associate Dean, School of the Arts, Jim Godfrey** (2002)
- B.F.A., Advertising Design; M.F.A., Graphic Design, Utah State University
- **Assistant Dean, Administration, School of the Arts, E. Linda Moore** (2002)
- A.S., B.S., Behavioral Science, Utah Valley University; M.P.A., Brigham Young University
- **Dean, University College, Forrest Williams** (1994)
- A.A., Secondary Education, Ricks College; B.A., English; M.Ed., Educational Leadership; Ed.D., Educational Leadership and Foundations, Brigham Young University
- **Associate Dean, University College, Deborah Marrott** (1992)
- B.A., Basic Composition/English as a Second Language, M.A., English, Brigham Young University; Ph.D., Education, Culture, and Society, University of Utah
- **Assistant Dean, University College, Jessica Awtrey** (2010)
- B.S., Philosophy, Utah Valley University; M.P.A., Public Administration, University of Illinois-Springfield
- **Dean, Woodbury School of Business, Norman S. Wright** (2010)
- B.S., Economics, M.P.A., Public Administration, Brigham Young University; M.A., Ph.D., Management, University of Pennsylvania
- **Associate Dean, Woodbury School of Business, Jacob Sybrowsky** (2010)
- B.A., Linguistics, M.S., Marriage, Family, and Human Development, Brigham Young University; Ph.D., Personal Financial Planning, Texas Tech University
- **Assistant Dean, Woodbury School of Business, Mikki O'Connor** (1996)
- B.A., Management, M.S., Organizational Management, University of Phoenix
- **Associate Vice President, Community Outreach & Economic Development, Jessica Gilmore** (2017)
-
- **Chief International Officer, Office of Global Engagement, Baldomero Lago** (2006)
- B.A., Spanish, Utah State University; M.A., Spanish Pedagogy, Brigham Young University; Ph.D., Instructional Technology, Universidad de Madrid
- **Senior Director, Sponsored Programs, Curtis Pendleton** (1990)
- M.S., Special Education, Utah State University; B.S., Family and Human Development and Psychology, Weber State University
- **Director, Fulton Library, Lesli Baker** (1998)
- M.Ed., Educational Technology, University of Missouri-Columbia; MLIS, Library and Information Science, Brigham Young University
- **Interim Director, Career & Technical Education, Kim Chiu** (2004)

Administration and Faculty

- A.A.S., Fashion Merchandizing, B.S., Information Technology, Utah Valley University
- **Director, Academic IT & Analytics, Laura Busby (2003)**
 - A.S., Business Management, B.S., Information Technology, Utah Valley University
- **Director, Academic Quality Assurance, Quinn Koller (2013)**
 - B.S., Geography and Liberal Studies, Excelsior College; M.S., Higher Education, Kaplan University
- **Director, Concurrent Enrollment, Memo Caldera (2014)**
 - B.B.A., Administration International Business, Boise State University; M.P.A., Public Administration, Idaho State University
- **Director, Program Completion, Tiffany Evans (2012)**
 - B.S., M.Ed., Psychology, Utah State University
- **Director, Graduate Studies, James Bailey (2009)**
 - B.S., Finance, Brigham Young University; B.S., Accounting, M.B.A., University of Utah; Ph.D., Business (Accountancy), University of Nebraska-Lincoln
- **Senior Director, Office of Teaching & Learning, Wendy Athens (2017)**
 - B.S., Chemistry, Mansfield University; M.S., Industrial Administration, Purdue University; Ed.D., Curriculum and Instruction/Educational Technology, University of Florida
- **Director, Teaching & Learning Design, Seth Gurell (2010)**
 - B.S., English, M.S., Instructional Technology, Utah State University; Ph.D., Instructional Psychology and Technology, Brigham Young University
- **Director, Internship Services, Niki Swan (2015)**
 - B.S., Special Education, University of Nevada; M.B.A., Claremont Graduate University
- **Director, Extended Studies, Ruth Gowans (2003)**
 - B.S., Animal Science, M.S., Agricultural Education, Utah State University
- **Director, Capitol Reef Station, Michael T. Stevens (2010)**
 - B.S., Conservation Biology, Brigham Young University; M.S., Ph.D., Botany, University of Wisconsin-Madison
- **Director, Center for Constitutional Studies, Rodney Smith (2017)**
 - B.A., Political Science minor in Philosophy, Western Colorado State College; J.D., Law, Brigham Young University; L.L.M., S.J.D., University of Pennsylvania
- **Associate Director, Center for Constitutional Studies, Andrew Bibby (2015)**
 - B.A., English & Political Science, Concordia University; Ph.D., Political Science, Michigan State University
- **Director, Center for the Study of Ethics, Brian Birch (1999)**
 - B.S., M.S., Philosophy, University of Utah; Ph.D., Philosophy of Religion, Claremont Graduate School
- **Director, Honors Program, Kate McPherson (2000)**
 - B.A., M.A., English, University of New Mexico; Ph.D., English, Emory University
- **Director, Academic Service Learning, Jon Westover (2009)**
 - B.S., Sociology (emphasis in Research and Analysis, Business Minor, Korean Minor), M.P.A., Human Resources and Organizational Behavior, Brigham Young University; M.S., Sociology, Ph.D. (ABD), Sociology, University of Utah
- **Director, Development/School of Business, Tyler Vigue (2017)**
 - B.A., Philosophy, Brigham Young University; M.P.A., University of Nebraska
- **Director, Career & Academic Counseling, Adam Black (2002)**
 - B.S., Sociology and Criminal Justice, Southern Utah University; M.C./M.H.C., Mental Health Counseling, University of Phoenix
- **Director, Academic Standards, Jan Klingman (2005)**
 - B.A., Interior Design, Brigham Young University; M.A.Ed., School Counseling, University of Phoenix

DEVELOPMENT & ALUMNI RELATIONS

- **Vice President, Development & Alumni Relations; CEO UVU Foundation, Scott W. Cooksey (2016)**
 - B.B.A., Marketing, Texas Tech University; Certified Fundraising Executive (CFRE)
- **Associate Vice President, Major Gifts & Development Programs, Kyle Tresner (2016)**
 - J.S., Social Studies, Brigham Young University; Secondary Education-Utah Teaching Certificate
- **Director, Gift Planning, Cristina Pianezzola (2000)**
 - A.S., General Ed., Utah Valley University; B.A. Philosophy, Texas Tech., J.D., Law, Brigham Young University
- **Assistant Director, UVU Foundation, Julie Anderson (2016)**
 - B.S., Theatre, Utah Valley University, M.S. Entertainment and Business Entrepreneurship, Full Sail University
- **Director, Corporate & Foundation Relations & Divisional Strategy & Operations, Scott Paul (2009)**
 - B.S., Psychology, J.D., Law, Brigham Young University

- **Senior Director, Alumni Relations & Annual Giving, Kevin Walkenhorst** (2011)
• B.A., Communications, Brigham Young University
- **Director, Annual Giving & Alumni Engagement, Lexie Grant** (2016)
• B.A., Interdisciplinary Studies, Gettysburg College; M.S., Arts Management, University of Oregon; Professional Personal Fitness Certificate, University of Utah
- **Director, Donor Outreach & Alumni Services, Justin Ferrell** (2011)
• B.S., Marriage, Family and Human Development, Brigham Young University
- **Senior Director, Executive Events, Jessica Ballard** (2011)
• B.A., M.P.C., Communication, Westminster College
- **Director, Executive Events, Mike Maughan** (1997)
• B.S., Physical Education and Secondary Ed Sports, Brigham Young University; M.A., Athletic Administration, Idaho State University
- **Assistant Director, Executive Events, Ashton Stitt** (2016)
• B.S., Physical Education and Secondary Ed Sports, Brigham Young University; M.A., Athletic Administration, Idaho State University
- **Senior Director, Divisional Executive Director, UVU Foundation COO, Jefferson Moss** (2016)
• B.A., Political Science; M.B.A., Entrepreneurship & Finance, Brigham Young University
- **Director, Development Services and Divisional Facilities & IT, Bart Jacobs** (1989)
• A.S., Accounting, B.S., Business Management/Accounting, Utah Valley University; M.B.A., Accounting, Utah State University
- **Associate Director, Prospect Research, Amy Bond** (2017)
• B.S., A.S. Behavioral Science, Utah State University
- **Associate Director, Data Management, Nilsen Septon** (2013)
• B.S., Brigham Young University
- **Senior Director, Donor Relations & Communications, Ron Taylor** (2017)
• B.S., Communications, Brigham Young University
- **Director, Development Communications, Julia Stowe** (2012)
• B.A., English, University of Maine; M.F.A., Creative Writing, University of Virginia

FINANCE & ADMINISTRATION

- **Vice President, Val L. Peterson** (1988)
• B.A., M.S., Strategic Studies, U.S. War College; M.A., Mass Communication, Ph.D., Educational Leadership, Brigham Young University
- **Associate Vice President, Facilities/Planning, Frank Young** (2001)
• B.S., Construction Management, Brigham Young University
- **Senior Director, Engineering/Space, Kurt Baxter** (2015)
• A.S., Business Administration, Snow College; B.A., Political Science, Brigham Young University
- **Director, Public Safety Chief of Police, Matthew Pedersen** (2017)
• Police Officer Standards and Training: B.S., Sociology, M.P.A., Sociology, Brigham Young University
- **Director, Campus Services, Cory Fralick** (2017)
• B.S., Construction Management, Utah Valley University; M.P.A., University of Nebraska
- **Director, Grounds, Jack Boswell** (1976)
• A.A.S., Auto Body, Utah Valley University
- **Associate Vice President, Finance, Jacob Atkin** (2004)
• A.S., Pre-Engineering, B.S., Accounting, Utah Valley University; M.T., Weber State University; CPA
- **Controller, Business Services, Kedric Black** (2003)
• B.S., Accounting, M.B.A., Business Administration, Utah State University
- **Director, Accounting, Joe Martin** (2010)
• B.S., Accounting, Southern Utah University; M.B.A., Accounting, Utah State University; CPA
- **Bursar, David Phillips** (2012)
• B.A., Accounting, Weber State University; M.B.A., Business Administration, Utah State University
- **Associate Director, Dining Services, Tracy Warner** (2016)
• Culinary Arts & Business, Utah Valley University; Customer Service, Disney University; Business, BYU; Organizational Leadership, CSU
- **Director, Network & Telecom Services, Kurtis Olsen** (2011)
• A.S., Telecommunications, Utah Valley University; B.S., Technology Management, Utah Valley University

Administration and Faculty

- **Director, Bookstore, Louise Bridge** (1996)
 - A.S., Dixie College; B.S., Business Management, Brigham Young University; M.B.A., Human Resources and Organizational Behavior
- **Director, Purchasing, Ryan Lindstrom** (1992)
 - B.S., Accounting, Brigham Young University; M.B.A.
- **Director, Printing Services, David Scott** (2003)
 - B.S., Sociology, Brigham Young University; M.P.A., Public Administration, University of Hawaii
- **Associate Vice President/CIO, Information Technology, Ray Walker** (1986)
 - A.A.S., Electronics Technology, Utah Valley University; B.S., Electrical Engineering, Brigham Young University; M.S., Electrical Engineering, Brigham Young University
- **Senior Director, Special Projects for IT, Joe Belnap** (2004)
 - B.A., Spanish, University of Utah; M.S., Organizational Leadership, Gonzaga University
- **Senior Director, Infrastructure Services, Eddie Sorensen** (1989)
 - A.A.S., Computer Science, Utah Valley University
- **Director, Systems Administration, Reed Warner** (2016)
 - A.S. Web Publishing, B.S. Information Systems Security, American Military University (AMU), West Virginia
- **Director, Audio/Visual Services, Travis Tasker** (1998)
 - A.A.S., Electronic Computer Technology ECT, Utah Valley Community College; A.S., Spanish, Utah Valley State College; B.S., Technology Management, Utah Valley University; 6 Sigma Green Belt Certified, ITIL Certified Foundations, CTS Certified Technology
- **Director, Infrastructure Operations, James Condi** (2010)
 - A.A.S., Technology, Utah Valley University, Certified ITIL Change Mgmt., Certified, ITIL ITSM Foundation, Professional Certified ITIL Hardware Asset Management, Certified Project Management ScrumMaster
- **Director, IT Project Management Office, Brett McKeachnie** (1993)
 - A.S., Computer Science, B.S., Information Technology, Utah Valley University
- **Senior Director, IT Support & Programming Services, David Tobler** (1990)
 - B.A., Business Administration, Canadore College
- **Director, Web Development Services, Nathan Gerber** (1994)
 - A.A.S., A.S., B.S., Computer Science, Utah Valley University
- **Director, IT Student Computing, Darel Hawkins** (1995)
 - A.A.S., A.S., Electronic Computer Technology, B.S., Technology Management, Utah Valley University
- **Director, Administrative Programming Services, Denise Vandevanter** (1987)
 - A.S., Accounting and Business Management, Stevens Henager College
- **Director, Automation & Integration Services, Mike Duffin** (1996)
 - A.A.S., Electronics Technology, Utah Valley University
- **Director, Customer Support, Bobby Lott** (2008)
 - B.S., Technology Management, Utah Valley University
- **Director, Desktop Support, John Berry** (2012)
 - B.A., Political Science, Brigham Young University; M.B.A., Utah Valley University
- **IT Officer 2-Security/IT Services, Leroy Brown** (1993)
 - A.A.S., Air Conditioning Refrigeration, A.S., Pre-Radiology, B.S., Technology Management, Utah Valley University
- **Senior Director, DBA Services, Tracy Adams** (1989)
 - B.S., Industrial Technology, Southern Utah State College
- **Director, Business Intelligence, Kenneth Dahl** (2015)
 - B.A., Communications – Public Relations, Brigham Young University; M.B.A., Brigham Young University
- **Associate Vice President/Athletic Director, Vincent Otoupal** (2013)
 - B.A., Political Science, Stanford University; OCS, TBS, Infantry Officer School, Cold Weather Survival (MWTC), Army: Cavalry Leaders Course, SECRET Military Security Clearance; M.B.A., University of Oregon
- **Associate Athletic Director, Communications & Marketing, Clint Burgi** (1996)
 - A.S., General Education, Utah Valley University; B.S., Communication, University of Utah; M.S., Recreation and Sport Administration, Western Kentucky University
- **Senior Associate Athletic Director/ External Operations, Jared Sumsion** (2005)
 - A.S., Utah Valley University; B.S., Integrated Studies, Leadership & Community Health, Utah Valley University; M.B.A., Westminster College/University of Phoenix; Ed.D., Organizational Leadership, Nova Southeastern University
- **Senior Associate Athletic Director, Senior Women Administrator, Megan Kennedy** (1999)
 - B.A., Elementary Education, Brigham Young University; M.A.Ed., Health, PE, & Recreation, Brigham Young University

- **Associate Athletic Director, Compliance, Adam Sanft** (2016)
B.A., Political Science, Brigham Young University
- **Associate Athletic Director, Business Operations, Nikki Scott** (2006)
B.S., Business/Accounting, University of Phoenix; M.B.A., emphasis in Accounting, Freed Hardman University
- **Director, UCCU Center, TBA**
- **General Counsel, Karen Clemes** (2015)
J.D., California Western School of Law; M.A., Humanities, Brigham Young University; B.A., Comparative Literature
- **Associate General Counsel, Clark Collings** (2017)
B.S., Business Management, Brigham Young University; J.D., University of Utah; S.J., Quinney College of Law
- **Assistant General Counsel, Compliance and Risk Management, Jeremy Knee** (2017)
B.S., Palm Beach Atlantic University; A.M., Brown University; J.D., Boston University
- **Director, Internal Audit, Peter VanderHeide** (2016)
B.S., Accounting, Brigham Young University; M.B.A., University of Nevada, Reno
- **Director, Emergency Management & Safety, Robin Ebmeyer** (2012)
A.S., Nursing, Brigham Young University - Idaho; B.S., Nursing, Weber State University; M.P.A., Public Administration and Emergency Management, Jacksonville State University

PLANNING, BUDGET, & HUMAN RESOURCES

- **Vice President, Planning, Budget, and Human Resources, Linda J. Makin** (1980)
B.S., Accounting, Utah Valley University; M.P.A., Brigham Young University
- **Associate Vice President, Human Resources, Mark L. Wiesenberg** (2003)
B.A., Communication; M.P.A., University of Utah; CHRO
- **Director, Budgets, Ellen Sweat** (1998)
A.S., University Studies, Utah Valley University
- **Director, Equal Opportunity/Affirmative Action and Title IX Coordinator, Laura Carlson** (2004)
B.S., Business Management, Utah Valley University; ATIXA; NACUA, SPHR
- **Director, Institutional Research, Tim Stanley** (1985)
B.S., Sociology; M.P.A., Brigham Young University
- **Interim Director, Institutional Effectiveness, Planning & Accreditation Support, Jeff Johnson** (2009)
B.A., Political Science, California State Polytechnic University, Pomona; M.A., Ph.D., Political Science, University of Wisconsin - Madison
- **Director, Policy Office, Cara O'Sullivan** (2010)
B.A., M.A., English, Brigham Young University

STUDENT AFFAIRS

- **Vice President, Student Affairs, Kyle A. Reyes** (2003)
M.Ed., Educational Leadership, Brigham Young University; Ph.D. Educational Leadership and Policy, University of Utah
- **Director, Grants Development Student Affairs, Greg Jackson** (2003)
B.A., Chinese and History, Brigham Young University; M.B.A., Finance, American Graduate School of International Management; Ph.D., University of Buckingham
- **Associate Vice President, Enrollment Management, Andrew Stone** (2007)
A.S., B.S., Psychology, Utah Valley University; M.Ed., Ph.D., Educational Leadership and Policy, University of Utah
- **Director, Financial Aid, John Curl** (2016)
B.S., Business Management, Brigham Young University; M.B.A., University of Utah
- **Program Manager, Financial Aid Scholarships, Carla Morgan** (1999)
A.A.S., Utah Valley University
- **Senior Registrar, Office of Senior Registrar, Eric Humphrey** (2016)
B.A., German, Utah State University
- **Associate Registrar, Curriculum/Catalog/Degree/Graduation, Chris Alldredge** (2009)
B.S., Business Management, Utah Valley University
- **Assistant Registrar, Graduation/Degree Audit, Kris Clayton**

Administration and Faculty

- **Assistant Registrar, Registration and Records, LuAnn Smith** (1981)
 - A.A.S., Secretary, Utah Valley University
- **Assistant Registrar, Registration and Records, Michelle Sandoval** (1991)
 - B.S., University Studies, Utah Valley University
- **Assistant Registrar, Transfer Credit, Alex Snyder**
 -
- **Program Coordinator, Leave of Absence, Mayra Powell** (2013)
 - B.S., Behavioral Science, Utah Valley University
- **Director, Veteran Student Success Center, Sheldon Holgreen** (2015)
 - A.A.S., Chinese/Mandarin, Defense Language Institute; B.S., Liberal Arts, Excelsior College
- **Coordinator, Veterans Service, Raynette Atkinson** (1996)
- **Senior Director, Assistant Vice President, Recruitment & Outreach, William Barney Nye** (1999)
 - A.S., B.S., Integrated Studies, Utah Valley University; MPA/Ph.D. Educational Leadership & Policy
- **Director, Admissions, Kris Coles** (2009)
 - A.S., B.S., Behavioral Science, Utah Valley University; M.Ed., Educational Leadership, University of Utah
- **Associate Director, Admissions, Brett Tolman** (2007)
 - B.S., Behavioral Science, Utah Valley University
- **Coordinator, Residency, Sherri Anderson** (2013)
- **Coordinator, International Admissions, Connie Whaley** (2000)
- **Associate Director, Prospective Student Services, Spencer Childs** (2014)
 - A.S., Business Management, Utah Valley University; B.A. American Studies, Brigham Young University
- **Director, Center for the Advancement of Leadership, Belinda Han** (2011)
 - A.S., Individualized, B.S., Behavioral Science, Utah Valley University; M.A., Organizational Leadership, Gonzaga, University; Ph.D., Educational Leadership, Creighton University
- **Assistant Director, The Center for the Advancement of Leadership, Amy Austin** (2016)
 - B.A. Psychology, Sonoma State University; M.P.A. Public Administration, California State University
- **Coordinator, STEM Academic Support, Ashlee Poulter** (2016)
 - B.S., Behavioral Science, Utah Valley University; M.Ed., Educational Leadership, Northern Arizona University
- **Director, Statewide GEAR UP, Laurie Miller** (2006)
 - B.S., Elementary Education, Brigham Young University; Ph.D., Instructional Systems Design, Indiana University Bloomington
- **Director, TRIO/UpwardBound/Talent Search, Michael Campbell**
 - B.A., Music, Brigham Young University; J.D., Law, University of Buffalo Law School
- **Associate Vice President Student Success & Retention, Michelle Kearns** (1992)
 - B.S., Business Management, Utah Valley University; M.P.A., Public Administration, Brigham Young University
- **Director, First Year Experience & Student Retention, Marcy Glassford** (1991)
 - A.S., Executive Assistant, Utah Valley University, B.S, Behavioral Science, Utah Valley University; M.P.A, Public Administration, Brigham Young University
- **Assistant Director, First Year Experience & Student Retention, Noemy Medina** (2014)
 - B.A., Spanish Linguistics, University of California; M.S. Education, California State University, Fullerton
- **Senior Director, Women's Success Center, Tara Ivie** (2008)
 - A.A., Political Science, Utah Valley University, B.A, History/Political Science, Utah Valley University; M.S, Administration of Academic Advising, Kansas State University
- **Assistant Director, Women's Success Center, Jolene Merica** (2017)
 - B.A., Broadcast Communications, M.Ed., Community Education Leadership, Ph.D. Instructional Psychology & Technology, Brigham Young University
- **Program Director, Care About Child Care, Joyce Hasting** (2017)
 - A.S. Early Childhood Education, Brigham Young University
- **Director, Wee Care Childcare Center, Todd Harper** (2015)
 - B.S., Family Human Development, B.S. Consumer & Community Studies, University of Utah
- **Manager, Wee Care Childcare Center, Mary Ellen Larsen** (2006)
 - Certificate of Early Childhood, Utah Valley University, National Administrator Credential
- **Director, Multicultural Student Services, Darah Snow** (2012)
 - B.S., Criminal Justice, Utah Valley University; M.Ed., Education Culture and Society, University of Utah

- **Assistant Director, Multicultural Student Services, Katty Perez (2007)**
- B.S., Business Management, M.Ed., Utah Valley University

- **Program Director, Latino Initiative, Yudi Lewis (1998)**
- A.A.S., Legal Assistant, B.S., Business Management, Utah Valley University; M.B.A., Business Management, University of Phoenix

- **Program Director, Native American Initiative, Ken Sekaquaptewa (2002)**
- B.A., English and Secondary Education, Brigham Young University

- **Program Director, Career Passport, Sue Stephenson (2003)**
- B.S. Recreation Management; M.P.A. Master of Public Administration, Brigham Young University

- **Director, International Student Services, Stephen Crook (2007)**
- B.S., M.A.C., Accounting, Brigham Young University

- **Director, Advisor Training & Development, Wade Oliver (2010)**
- B.S., Sociology, University of Utah; M.S., Instructional Technology, Utah State University

- **Director, Testing Services, Colleen Sorensen (1994)**
- B.S., Health, Brigham Young University; M.B.A., Business Administration, Utah State University
-

- **Director, TRiO Support Services, Keith Jensen (1993)**
- B.S., International Relations, Brigham Young University; M.S., Educational Leadership, Troy State University

- **Director, Career Development Center, Michael Snapp (2001)**
- B.S., Communications, Weber State University; M.A., Educational Counseling, University of Phoenix

- **Assistant Director, Career Development Center, Jordan Doman (2010)**
- B.S., Communications, M.Coun. Counseling, Idaho State University

- **Career Development Counselor, NSE (Sue Stephenson), Travis Reynolds (2012)**
- B.S., Behavioral Science, Utah Valley University; M.S. Academic Advising, Kansas State University

- **Associate Vice President, Student Life/Dean of Students, Alexis Palmer (2004)**
- B.A., Elementary Education, Boise State University; M. S. Family Recreation and Youth Leadership, Brigham Young University

- **Associate Dean of Students, Ashley Larsen 2010**
- B.S., English, Utah Valley University; M.Ed., University of Utah

- **Director, Accessibility Services, Pola Morrison (2014)**
- B.A., Child Development, M.S., Educational Psychology, Cal State Northridge

- **Assistant Director, Accessibility Services, Carolyn Johnson (1992)**
- A.S., Recreation, Brigham Young University - Idaho; B.S., Recreation Management, M.A., Recreation and Leadership, Brigham Young University

- **Assistant Director, Deaf & Hard of Hearing Services, Nicole Hemmingsen (2011)**
- A. A.S., Sign Language Interpreting and Translating, Saint Paul College; B.A., Metropolitan University

- **Assistant Director, Accommodative Services, Jason McKenna (2007)**
- A.S., University Studies, Utah Valley University

- **Director, SSC/SLWC Operations, Joel Herd (2001)**
- B.S., Marketing, Utah State University

- **Senior Director, Student Health Services, Bill Erb (2000)**
- B.S., Psychology, University of Utah; M.S., Counseling and School Psychology, Brigham Young University

- **Director, Psychological Services, Jack Jensen (1977)**
- B.A., Political Science, Brigham Young University; M.S., School Psychology, University of Utah; Ed.D., Counseling and Psychology, Brigham Young University

- **Nurse Practitioner Esme Anderson (2006)**
- B.S., Nursing, Weber State University; M.S., Nursing, University of Utah

- **Director, Student Conduct & Conflict Resolution, Maren Turnidge (2013)**
- B.S. Political Science, Brigham Young University

- **Director, Campus Recreation and Wellness, DaSheek Akwenye (2010)**
- B.S., Journalism, M.S., Exercise Science, Utah State University

- **Program Manager, Intramurals, Dustin Lamont (2017)**
- B.S., Sports Management, University of Utah

- **Director, Volunteer & Service Learning, Summer Valente (2013)**
- B.A., Humanities, M.P.A., Brigham Young University

Administration and Faculty

- **Program Director, Student Involvement, Grant Flygare** (1989)
 - A.S., Legal Assisting, Utah Valley University; B.A., M.A., Philosophy, Brigham Young University
- **Program Coordinator, Housing and Resident Life, Matthew Robins** (2016)
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