# DeVry University

## *Academic* **Catalog**

### 2015–2016

www.devry.edu

**Supplemental Information as of October 26, 2015**

DeVry's 2015–2016 U.S. Undergraduate Academic Catalog, Volume XXXIV, is now in effect. Since this catalog's original publication, July 6, 2015, the following significant changes have been implemented. Additions/amendments incorporated since the most recent publication are noted in red and appear at the top of the table below. Because changes/updates can affect the catalog layout, entries in black in the table below may no longer correspond to the page numbers indicated.

| | | Change List |
|---|---|---|
| **Date Change Published** | **Page(s) on Which Change Appears** | **Change/Update** |
| 10-26-15 | Multiple | HIT202A and HIT204A have been replaced with HIT203 and HIT205, respectively. |
| 10-26-15 | 136–137 | Information in Additional Admission Requirements for International Applicants has been updated. |
| 10-26-15 | 137 | Information in English-Language-Proficiency Admission Requirement has been updated. |
| 10-26-15 | 145 | Information in Attendance Appeal has been updated. |
| 10-26-15 | 146 | Within Standards of Academic Progress, Requirements for Students Starting the Semester in Good Standing, information in Pace of Progress Toward Graduation, Including Withdrawal from All Courses has been updated. |
| 10-12-15 | 23 | Within Approvals, information for the state of Illinois has been updated. |
| 10-12-15 | 141–142 | Within the Prior Learning Credit section, information regarding Prior Learning Assessment has been added. |
| 9-28-15 | Multiple | NOTE: Throughout the catalog, numerous references to the application fee have been updated. |
| 9-28-15 | 3 | Information for Cycle 2's 2016 summer semester has been added to the academic calendar. |
| 9-28-15 | 113–114 | Course descriptions, MATH104 and MATH118, have been updated. |
| 9-28-15 | 153–155 | Information within Tuition, Fees and Expenses has been updated. |
| 9-28-15 | 162 | Information in Tardiness has been updated. |
| 9-14-15 | 26 | Within the General Notes section, information in Enrolled Location has been updated. |
| 9-14-15 | 33 | Within the Business Administration program in the Major/Concentration course area, General Business Option Plan I has been deleted. |
| 9-14-15 | 141 | Information in Prior Learning Credit has been updated. |
| 9-14-15 | 162 | Information in Rules and Enrollment Conditions has been updated. |
| 8-12-15 | 6 | Within DeVry Locations, information for the University's Henderson, NV, location has been updated. |
| 8-12-15 | 22 | Information in Institutional Accreditation has been updated. |
| 8-12-15 | 47–48 | Within the Computer Information Systems program, the track name, Business/Management has changed to Business and Management. |
| 8-12-15 | 150–155 | The section entitled, Tuition & Expenses, has been deleted. |
| 8-12-15 | 156–159 | The section entitled, Financial Assistance, has been deleted. |
| 8-12-15 | 162 | Information in Tardiness has been updated. |
| 8-12-15 | 163 | Information in Disciplinary Action has been updated. |
| 8-12-15 | 163 | Information in Student Complaint Procedures has been updated. |

# From the **President**

Dear Student,

Welcome to the DeVry University family, and congratulations on taking this important step toward realizing your educational and career goals. Know that our talented faculty and committed student support staff will be there for you every step of the way. It is our goal to help you become a successful student, and ultimately, a successful graduate of DeVry University. We are here for you, and we care about your success.

In 1931, Dr. Herman DeVry, our founder, created an institution to educate students in the rapidly emerging field of electronics. Before he was an educator, Dr. DeVry was an inventor. Among other notable innovations, Dr. DeVry invented the first portable movie projector. He would carry his projector onto military bases and use it to show instructional films to help train service members. This innovative approach to learning set the tone for decades to come, eventually leading to DeVry's 'best of both' approach to educating students, offering quality on-campus learning as well as a world-class online education. Over the years, our roots in technology have expanded to include a broad selection of programs, offered across five colleges of study.

Today, about 70 percent of college students are defined as "non-traditional" – not the stereotypical college students. They are some of the strongest, most inspiring people you will ever meet. Working moms, soldiers returning from active duty, those who tried college before and are back determined to finish, the first in their families to set foot in a university classroom, and recent high school graduates bound for greatness. These are the students we serve. At DeVry University, because our students are different, we are different, too.

**Different in What We Teach**
We focus on associate, bachelor's and master's degree programs that help prepare students for careers in growing fields. These vast degree programs are offered through five colleges of study and are built with the input of leading companies, so you are prepared to make a difference in the workforce on day one after graduation.

**Different in Where We Teach**
With caring faculty and administrators located at campuses nationwide, as well as delivering online classes and student services, DeVry University is committed to helping all students where and when they need us.

**Different in How We Teach**
DeVry professors bring years of real-world experience into your classes. They know each of their students by name and encourage, mentor and believe in them. Our small class sizes allow for an intimate, highly engaging learning experience. Our committed staff members guide students through scheduling and finances, coach them on résumés, and help open doors to job interviews. These are the hallmarks of how we educate and support our students.

**Different in Why We Teach**
Seeing our students reach their potential and transform their lives is an awe-inspiring experience. It is what wakes us up in the morning and inspires us at work each day. We are lucky to be part of something so incredible and so important. This is why we are proud to have more than 250,000 alumni nationwide.

We are grateful for the opportunity to contribute toward your future success and we are excited about what lies ahead for you. All the best as you continue your educational journey.

Sincerely,

**Robert Paul**
President, DeVry University

# Table of **Contents**

# Academic **Calendar**

DeVry delivers courses in a session format, with two eight-week sessions offered each semester. Months corresponding to DeVry's summer, fall and spring semesters are designated in two overlapping calendar cycles. At the time a student matriculates, he/she is assigned to either a Cycle 1 or a Cycle 2 calendar schedule (see *Student-Centric Period*).

*Note: Each session, instruction ends at 11:59 pm MT on Saturday of week eight. No instruction occurs on holidays or during break periods indicated below.*

| Cycle 1 | |
|---|---|
| **Cycle 1: 2015 Fall Semester** | **August 31, 2015 – January 3, 2016** |
| *September 2015 Session* | |
| Monday, August 31 | Session Begins |
| Monday, September 7 | Labor Day Holiday |
| Sunday, October 25 | Session Ends |
| *November 2015 Session* | |
| Monday, October 26 | Session Begins |
| Thursday–Friday, November 26–27 | Thanksgiving Break |
| Sunday, December 20 | Session Ends |
| Monday–Sunday, December 21–January 3 | Winter Break |
| **Cycle 1: 2016 Spring Semester** | **January 4, 2016 – May 1, 2016** |
| *January 2016 Session* | |
| Monday, January 4 | Session Begins |
| Monday, January 18 | Martin Luther King Jr. Day Holiday |
| Sunday, February 28 | Session Ends |
| *March 2016 Session* | |
| Monday, February 29 | Session Begins |
| Friday, March 25 | Spring Holiday |
| Sunday, April 24 | Session Ends |
| Monday–Sunday, April 25–May 1 | Spring Break |
| **Cycle 1: 2016 Summer Semester** | **May 2, 2016 – August 28, 2016** |
| *May 2016 Session* | |
| Monday, May 2 | Session Begins |
| Monday, May 30 | Memorial Day Holiday |
| Sunday, June 26 | Session Ends |
| *July 2016 Session* | |
| Monday–Sunday, June 27–July 3 | Summer Break |
| Monday, July 4 | Session Begins, Independence Day Holiday |
| Sunday, August 28 | Session Ends |

| Cycle 2 | |
|---|---|
| **Cycle 2: 2015 Fall Semester** | **October 26, 2015 – February 28, 2016** |
| *November 2015 Session* | |
| Monday, October 26 | Session Begins |
| Thursday–Friday, November 26–27 | Thanksgiving Break |
| Sunday, December 20 | Session Ends |
| Monday–Sunday, December 21–January 3 | Winter Break |
| *January 2016 Session* | |
| Monday, January 4 | Session Begins |
| Monday, January 18 | Martin Luther King Jr. Day Holiday |
| Sunday, February 28 | Session Ends |
| **Cycle 2: 2016 Spring Semester** | **February 29, 2016 – June 26, 2016** |
| *March 2016 Session* | |
| Monday, February 29 | Session Begins |
| Friday, March 25 | Spring Holiday |
| Sunday, April 24 | Session Ends |
| Monday–Sunday, April 25–May 1 | Spring Break |
| *May 2016 Session* | |
| Monday, May 2 | Session Begins |
| Monday, May 30 | Memorial Day Holiday |
| Sunday, June 26 | Session Ends |
| **Cycle 2: 2016 Summer Semester** | **June 27, 2016 – October 23, 2016** |
| *July 2016 Session* | |
| Monday–Sunday, June 27–July 3 | Summer Break |
| Monday, July 4 | Session Begins, Independence Day Holiday |
| Sunday, August 28 | Session Ends |
| *September 2016 Session* | |
| Monday, August 29 | Session Begins |
| Monday, September 5 | Labor Day Holiday |
| Sunday, October 23 | Session Ends |

# DeVry **Locations**

With its nationwide network of more than 75 locations – as well as online delivery – DeVry University provides the flexibility students need to complete their education at the most convenient time and place. More information, including program availability at each location, is available via the web addresses shown below.

## Arizona

**Glendale**
6751 N. Sunset Blvd., Ste. E104, 3rd Flr., Glendale, AZ 85305
623.872.3240
www.devry.edu/universities/us-locations/arizona/
glendale-center.html

**Mesa**
1201 S. Alma School Rd., Ste. 5450, Mesa, AZ 85210
480.827.1511
www.devry.edu/universities/us-locations/arizona/
mesa-center.html

**Phoenix**
2149 W. Dunlap Ave., Phoenix, AZ 85021
602.749.7301
www.devry.edu/universities/us-locations/arizona/
phoenix-campus.html

## California

**Alhambra**
Unit 100, Bldg. A-11, 1st Flr.
1000 S. Fremont Ave., Alhambra, CA 91803
626.293.4300
www.devry.edu/universities/us-locations/california/
alhambra-center.html

**Anaheim**
1900 S. State College Blvd., Ste. 150, Anaheim, CA 92806
714.935.3200
www.devry.edu/universities/us-locations/california/
anaheim-center.html

**Bakersfield**
3000 Ming Ave., Bakersfield, CA 93304
661.833.7120
www.devry.edu/universities/us-locations/california/
bakersfield-center.html

**Folsom**
950 Iron Point Rd., Ste. 100, Folsom, CA 95630
855.577.1494
www.devry.edu/universities/us-locations/california/
folsom-campus.html

**Fremont**
6600 Dumbarton Cr., Fremont, CA 94555
510.574.1200
www.devry.edu/universities/us-locations/california/
fremont-campus.html

**Fresno**
7575 N. Fresno St., Fresno, CA 93720
559.439.8595
www.devry.edu/universities/us-locations/california/
fresno-campus.html

*A limited number of courses may also be offered at classrooms within the West Hills Community College sites at 300 Cherry Ln., Coalinga, CA 93210, and 1511 Ninth St., Firebaugh, CA 93622.*

**Inland Empire-Colton**
1090 E. Washington St., Ste. H, Colton, CA 92324
909.514.1808
www.devry.edu/universities/us-locations/california/
colton-center.html

**Long Beach**
3880 Kilroy Airport Way, Long Beach, CA 90806
562.427.0861
www.devry.edu/universities/us-locations/california/
long-beach-campus.html

**Oakland**
505 14th St., Ste. 100, Oakland, CA 94612
510.267.1340
www.devry.edu/universities/us-locations/california/
oakland-center.html

**Oxnard**
300 E. Esplanade Dr., Ste. 100, Oxnard, CA 93036
805.604.3350
www.devry.edu/universities/us-locations/california/
oxnard-center.html

**Palmdale**
39115 Trade Center Dr., Ste. 100, Palmdale, CA 93551
661.224.2920
www.devry.edu/universities/us-locations/california/
palmdale-center.html

**Pomona**
901 Corporate Center Dr., Pomona, CA 91768
909.622.8866
www.devry.edu/universities/us-locations/california/
pomona-campus.html

**San Diego**
2655 Camino Del Rio North, Ste. 360, San Diego, CA 92108
619.683.2446
www.devry.edu/universities/us-locations/california/
san-diego-campus.html

**San Jose**
2160 Lundy Ave., Ste. 250, San Jose, CA 95131
408.571.3760
www.devry.edu/universities/us-locations/california/
san-jose-center.html

**Sherman Oaks**
15301 Ventura Blvd., Bldg. D-100, Sherman Oaks, CA 91403
818.713.8111
www.devry.edu/universities/us-locations/california/
sherman-oaks-campus.html

*A limited number of courses may also be offered at the Twentynine Palms Marine Air Ground Task Force Training Center, 1530 6th St., Twentynine Palms, CA 92278.*

## Colorado

**Colorado Springs**
1175 Kelly Johnson Blvd., Colorado Springs, CO 80920
719.632.3000
www.devry.edu/universities/us-locations/colorado/
colorado-springs-center.html

**Denver South**
6312 S. Fiddlers Green Cr., Ste. 150E
Greenwood Village, CO 80111
303.329.3000
www.devry.edu/universities/us-locations/colorado/
denver-center.html

**Westminster**
1870 W. 122nd Ave., Westminster, CO 80234
303.280.7400
www.devry.edu/universities/us-locations/colorado/
westminster-campus.html

## Florida

**Ft. Lauderdale**
600 Corporate Dr., Ste. 200, Ft. Lauderdale, FL 33334
954.938.3083
www.devry.edu/universities/us-locations/florida/
ft-lauderdale-center.html

**Jacksonville**
5200 Belfort Rd., Ste. 175, Jacksonville, FL 32256
904.367.4942
www.devry.edu/universities/us-locations/florida/
jacksonville-campus.html

**Miramar**
2300 SW 145th Ave., Miramar, FL 33027
954.499.9775
www.devry.edu/universities/us-locations/florida/
miramar-campus.html

**Orlando**
4000 Millenia Blvd., Orlando, FL 32839
407.345.2800
www.devry.edu/universities/us-locations/florida/
orlando-campus.html

**Tampa Bay**
5540 W. Executive Dr., Ste. 100, Tampa, FL 33609
813.288.8994
www.devry.edu/universities/us-locations/florida/
tampa-bay-campus.html

**Tampa East**
6700 Lakeview Center Dr., Ste. 150, Tampa, FL 33619
813.664.4260
www.devry.edu/universities/us-locations/florida/
tampa-east-center.html

## Georgia

**Alpharetta**
2555 Northwinds Pkwy., Alpharetta, GA 30009
770.619.3600
www.devry.edu/universities/us-locations/georgia/
alpharetta-campus.html

**Atlanta Cobb/Galleria**
100 Galleria Pkwy. SE, Ste. 100, Atlanta, GA 30339
770.916.3704
www.devry.edu/universities/us-locations/georgia/
cobb-galleria-center.html

**Decatur**
1 West Court Square, Ste. 100, Decatur, GA 30030
404.270.2700
www.devry.edu/universities/us-locations/georgia/
decatur-campus.html

**Gwinnett**
3505 Koger Blvd., Ste. 170, Duluth, GA 30096
770.381.4400
www.devry.edu/universities/us-locations/georgia/
duluth-center.html

**Henry County**
675 Southcrest Pkwy., Ste. 100, Stockbridge, GA 30281
678.284.4700
www.devry.edu/universities/us-locations/georgia/
stockbridge-center.html

## Illinois

**Addison**
1221 N. Swift Rd., Addison, IL 60101
630.953.1300
www.devry.edu/universities/us-locations/illinois/
addison-campus.html

**Chicago**
3300 N. Campbell Ave., Chicago, IL 60618
773.929.8500
www.devry.edu/universities/us-locations/illinois/
chicago-campus.html

**Chicago Loop**
225 W. Washington St., Ste. 100, Chicago, IL 60606
312.372.4900
www.devry.edu/universities/us-locations/illinois/
chicago-loop-center.html

**Chicago O'Hare**
8550 W. Bryn Mawr Ave., Ste. 450, Chicago, IL 60631
773.695.1000
www.devry.edu/universities/us-locations/illinois/
chicago-ohare-center.html

**Downers Grove**
3005 Highland Pkwy., Ste. 100, Downers Grove, IL 60515
630.515.3000
www.devry.edu/universities/us-locations/illinois/
downers-grove-center.html

**Elgin**
2250 Point Blvd., Ste. 250, Elgin, IL 60123
847.649.3980
www.devry.edu/universities/us-locations/illinois/
elgin-center.html

**Gurnee**
1075 Tri-State Pkwy., Ste. 800, Gurnee, IL 60031
847.855.2649
www.devry.edu/universities/us-locations/illinois/
gurnee-center.html

**Naperville**
2056 Westings Ave., Ste. 40, Naperville, IL 60563
630.428.9086
www.devry.edu/universities/us-locations/illinois/
naperville-center.html

**Tinley Park**
18624 W. Creek Dr., Tinley Park, IL 60477
708.342.3300
www.devry.edu/universities/us-locations/illinois/
tinley-park-campus.html

## Indiana

**Indianapolis**
9100 Keystone Crossing, Ste. 100, Indianapolis, IN 46240
317.581.8854
www.devry.edu/universities/us-locations/indiana/
indianapolis-center.html

**Merrillville**
1000 E. 80th Pl., Ste. 222 Mall, Merrillville, IN 46410
219.736.7440
www.devry.edu/universities/us-locations/indiana/
merrillville-center.html

## Michigan

**Southfield**
26999 Central Park Blvd., Ste. 125, Southfield, MI 48076
248.213.1610
www.devry.edu/universities/us-locations/michigan/
southfield-campus.html

## Minnesota

**Edina**
7700 France Ave. S., Ste. 575, Edina, MN 55435
952.838.1860
www.devry.edu/universities/us-locations/minnesota/
edina-campus.html

## Missouri

**Kansas City**
11224 Holmes Rd., Kansas City, MO 64131
816.943.7300
www.devry.edu/universities/us-locations/missouri/
kansas-city-campus.html

**Kansas City Downtown**
1100 Main St., Ste. 118, Kansas City, MO 64105
816.221.1300
www.devry.edu/universities/us-locations/missouri/
kansas-city-downtown-center.html

**St. Louis**
11830 Westline Industrial Dr., Ste. 100, St. Louis, MO 63146
314.991.6400
www.devry.edu/universities/us-locations/missouri/
st-louis-campus.html

## Nevada

**Henderson**
2490 Paseo Verde Pkwy., Ste. 150, Henderson, NV 89074
702.933.9700
www.devry.edu/universities/us-locations/nevada/
henderson-campus.html

*DeVry's Henderson Campus is located in Green Valley, a resort area just a few miles from the Las Vegas strip and known for its growing business community. The 18,484 square foot campus offers 11 spacious classrooms, a fully wired computer lab and a comfortable commons area. Easily accessed from the Green Valley Parkway exit off I-215, the University's Henderson site offers both undergraduate and graduate degree programs.*

*Also, a limited number of courses may be offered at Chamberlain College of Nursing, 9901 Covington Cross Dr., Las Vegas, NV 89144. Chamberlain's Las Vegas Campus is located in Summerlin, a master-planned community just a few miles from the Las Vegas strip and known for its recreational and educational opportunities. The 22,738 square foot campus offers 7 spacious classrooms, a fully wired resource center, SIMCARE Center, and a comfortable commons area. Easily accessed from Summerlin Parkway at the Town Center Drive exit, Chamberlain's Las Vegas site offers pre-licensure bachelors of science in nursing degree programs.*

## New Jersey

**Cherry Hill**
921 Haddonfield Rd., Cherry Hill, NJ 08002
856.317.4400
www.devry.edu/universities/us-locations/new-jersey/
cherry-hill-center.html

**North Brunswick**
630 U.S. Hwy. One, North Brunswick, NJ 08902
732.729.3960
www.devry.edu/universities/us-locations/new-jersey/
north-brunswick-campus.html

**Paramus**
35 Plaza, 81 E. State Rte. 4, Ste. 102, Paramus, NJ 07652
201.556.2840
www.devry.edu/universities/us-locations/new-jersey/
paramus-center.html

## New York

**Midtown Manhattan**
DeVry College of New York
180 Madison Ave., Ste. 900 (Entrance on 34th St.)
New York, NY 10016
212.312.4300
www.devry.edu/universities/us-locations/new-york/
manhattan-campus.html

**Queens**
DeVry College of New York
99–21 Queens Blvd., Rego Park, NY 11374
718.575.7100
www.devry.edu/universities/us-locations/new-york/
rego-park-queens-center.html

## North Carolina

*Three-semester-credit-hour undergraduate courses offered through DeVry's North Carolina locations meet eight weeks for 3.5 hours of classroom instruction each week, plus two hours of online professor-mediated work per week, for a total of 44 hours. Four-semester-credit-hour undergraduate courses meet eight weeks for 3.5 hours of classroom instruction each week, plus three hours of online professor-mediated work per week, for a total of 52 hours.*

**Charlotte**
2015 Ayrsley Town Blvd., Ste. 109, Charlotte, NC 28273
704.362.2345
www.devry.edu/universities/us-locations/north-carolina/
charlotte-campus.html

*Nearby healthcare services are located at Presbyterian Urgent Care, 1918 Randolph Rd., Charlotte, NC 28207, 704.316.1050.*

**Raleigh-Durham**
1600 Perimeter Park Dr., Ste. 100, Morrisville, NC 27560
919.463.1380
www.devry.edu/universities/us-locations/north-carolina/
raleigh-durham-campus.html

*Nearby healthcare services are located at Rex Healthcare, 4420 Lake Boone Trl., Raleigh, NC 27607, 919.784.3100.*

## Ohio

**Cincinnati**
8800 Governors Hill Dr., Ste. 100, Cincinnati, OH 45249
513.583.5000
www.devry.edu/universities/us-locations/ohio/
cincinnati-campus.html

**Columbus**
1350 Alum Creek Dr., Columbus, OH 43209
614.253.1525
www.devry.edu/universities/us-locations/ohio/
columbus-campus.html

**Dayton**
3610 Pentagon Blvd., Ste. 100, Dayton, OH 45431
937.320.3200
www.devry.edu/universities/us-locations/ohio/
dayton-center.html

**Seven Hills**
4141 Rockside Rd., Ste. 110, Seven Hills, OH 44131
216.328.8754
www.devry.edu/universities/us-locations/ohio/
seven-hills-campus.html

## Oklahoma

**Oklahoma City**
4013 NW Expressway St., Ste. 100, Oklahoma City, OK 73116
405.767.9516
www.devry.edu/universities/us-locations/oklahoma/
oklahoma-city-campus.html

## Oregon

**Portland**
9755 SW Barnes Rd., Ste. 150, Portland, OR 97225
503.296.7468
www.devry.edu/universities/us-locations/oregon/
portland-campus.html

## Pennsylvania

**Ft. Washington**
1140 Virginia Dr., Ft. Washington, PA 19034
215.591.5700
www.devry.edu/universities/us-locations/pennsylvania/
ft-washington-campus.html

**Philadelphia**
1800 JFK Blvd., Ste. 200, Philadelphia, PA 19103
215.568.2911
www.devry.edu/universities/us-locations/pennsylvania/
philadelphia-center.html

**Pittsburgh**
210 Sixth Ave., Ste. 200, Pittsburgh, PA 15222
412.642.9072
www.devry.edu/universities/us-locations/pennsylvania/
pittsburgh-center.html

## Tennessee

**Memphis**
6401 Poplar Ave., Ste. 600, Memphis, TN 38119
901.537.2560
www.devry.edu/universities/us-locations/tennessee/
memphis-campus.html

**Nashville**
3343 Perimeter Hill Dr., Ste. 200, Nashville, TN 37211
615.445.3456
www.devry.edu/universities/us-locations/tennessee/
nashville-campus.html

## Texas

*Eligibility to sit for the Certified Public Accountant (CPA) exam and be licensed as a CPA in Texas requires CPA applicants to have attended an institution accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS), or by a specialized or professional accrediting organization such as the Accreditation Council for Business Schools and Programs (ACBSP). DeVry University has achieved voluntary accreditation from the ACBSP for certain business programs. See Institutional Accreditation as well as Programmatic Accreditation and Recognition for additional information.*

**Austin**
11044 Research Blvd., Ste. B-100, Austin, TX 78759
512.231.2500
www.devry.edu/universities/us-locations/texas/
austin-campus.html

**Ft. Worth**
301 Commerce St., Ste. 2000, Ft. Worth, TX 76102
817.810.9114
www.devry.edu/universities/us-locations/texas/
ft-worth-center.html

**Houston**
11125 Equity Dr., Houston, TX 77041
713.973.3000
www.devry.edu/universities/us-locations/texas/
houston-campus.html

**Houston Galleria**
5051 Westheimer Rd., Ste. 500, Houston, TX 77056
713.850.0888
www.devry.edu/universities/us-locations/texas/
houston-center.html

**Irving**
4800 Regent Blvd., Ste. 200, Irving, TX 75063
972.929.6777
www.devry.edu/universities/us-locations/texas/
irving-campus.html

**Mesquite**
3733 W. Emporium Cr., Mesquite, TX 75150
866.733.3879
www.devry.edu/universities/us-locations/texas/
mesquite-center.html

**San Antonio**
618 NW Loop 410, Ste. 202, San Antonio, TX 78216
210.524.5400
www.devry.edu/universities/us-locations/texas/
san-antonio-campus.html

## Virginia

**Arlington**
2450 Crystal Dr., Arlington, VA 22202
703.414.4000
www.devry.edu/universities/us-locations/virginia/
arlington-campus.html

**Manassas**
10432 Balls Ford Rd., Ste. 130, Manassas, VA 20109
703.396.6611
www.devry.edu/universities/us-locations/virginia/
manassas-center.html

**South Hampton Roads**
1317 Executive Blvd., Ste. 100, Chesapeake, VA 23320
757.382.5680
www.devry.edu/universities/us-locations/virginia/
chesapeake-campus.html

## Washington

**Federal Way**
3600 S. 344th Way, Federal Way, WA 98001
253.943.2800
www.devry.edu/universities/us-locations/washington/
federal-way-campus.html

**Lynnwood**
19020 33rd Ave. W., Ste. 110, Lynnwood, WA 98036
425.672.6130
www.devry.edu/universities/us-locations/washington/
lynnwood-center.html

## Wisconsin

**Milwaukee**
411 E. Wisconsin Ave., Ste. 300, Milwaukee, WI 53202
414.278.7677
www.devry.edu/universities/us-locations/wisconsin/
milwaukee-campus.html

## Alberta, Canada

**Calgary**
DeVry Institute of Technology Student Support Centre
520 5th Ave. SW, Calgary, AB Canada T2P 3R7
403.235.3450

# DeVry Online Delivery

**Administrative Offices**
DeVry Online
1200 E. Diehl Rd.
Naperville, IL 60563
800.231.0497 – Admissions
877.496.9050 – Student Services
www.devry.edu/online

For more than a decade, DeVry has leveraged the Internet to deliver high-quality educational offerings and services online.

Integrating online capabilities with its proven educational methodologies, DeVry offers "anytime, anywhere" education to students who reside beyond the geographic reach of DeVry locations, whose schedules preclude onsite attendance or who want to take advantage of the tremendous flexibility afforded by online attendance. Interactive information technology enables students to effectively communicate with professors, as well as to participate in group activities with fellow online students.

DeVry's online learning platform – accessible 24 hours a day, seven days a week – offers:

- Course syllabi and assignments, DeVry's virtual library and other web-based resources.
- Email, threaded conversations and chat rooms.
- Text and course materials, available through DeVry's online bookstore.
- DVD companion discs.
- Study notes or "professor lectures" for student review.

Professors for online courses are drawn from DeVry's faculty throughout North America as well as from leading organizations in business and technology. To ensure effective delivery of course materials, and to facilitate participation from all class members, faculty teaching online complete specialized instruction to prepare them to teach via this medium. As a result, students are provided with a comprehensive learning experience that enables them to master course content.

Students taking advantage of DeVry's dynamic online learning experience are supported by a team of professionals in suburban Chicago. Together, the team provides students with support services including admission and registration information, academic advising and financial aid information. Students can complete all administrative details online, including purchasing textbooks.
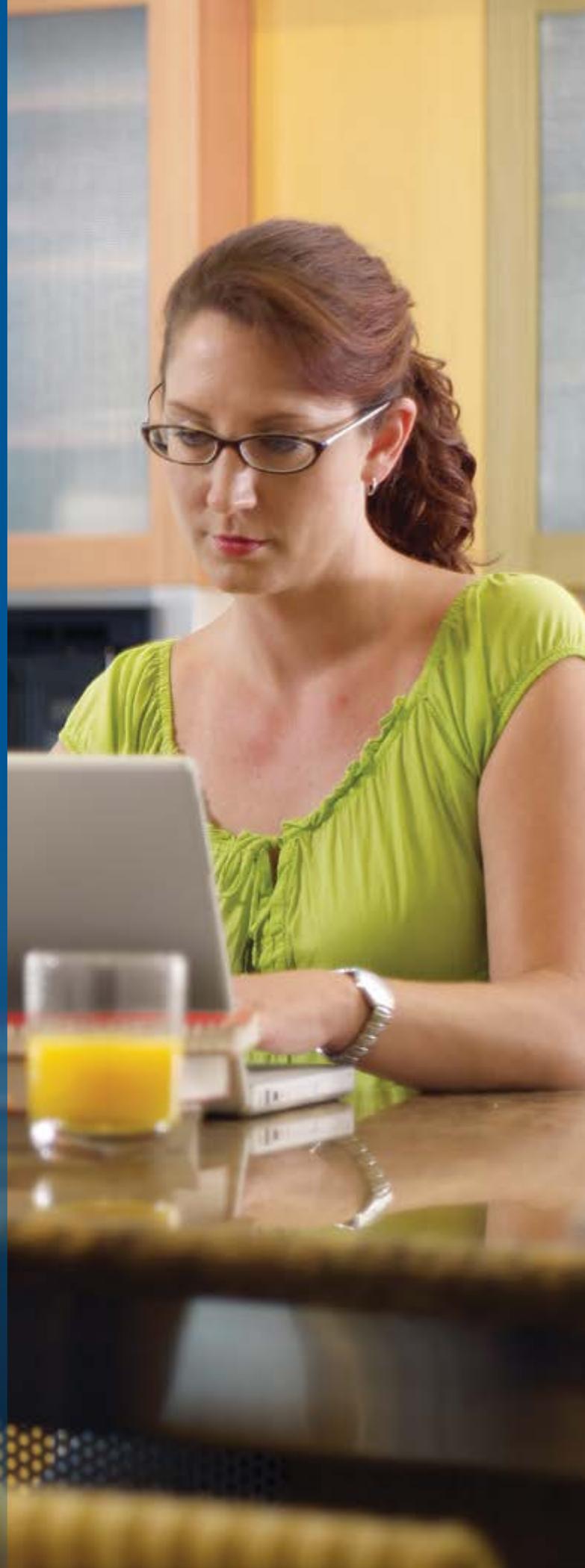
# *Student* **Life**
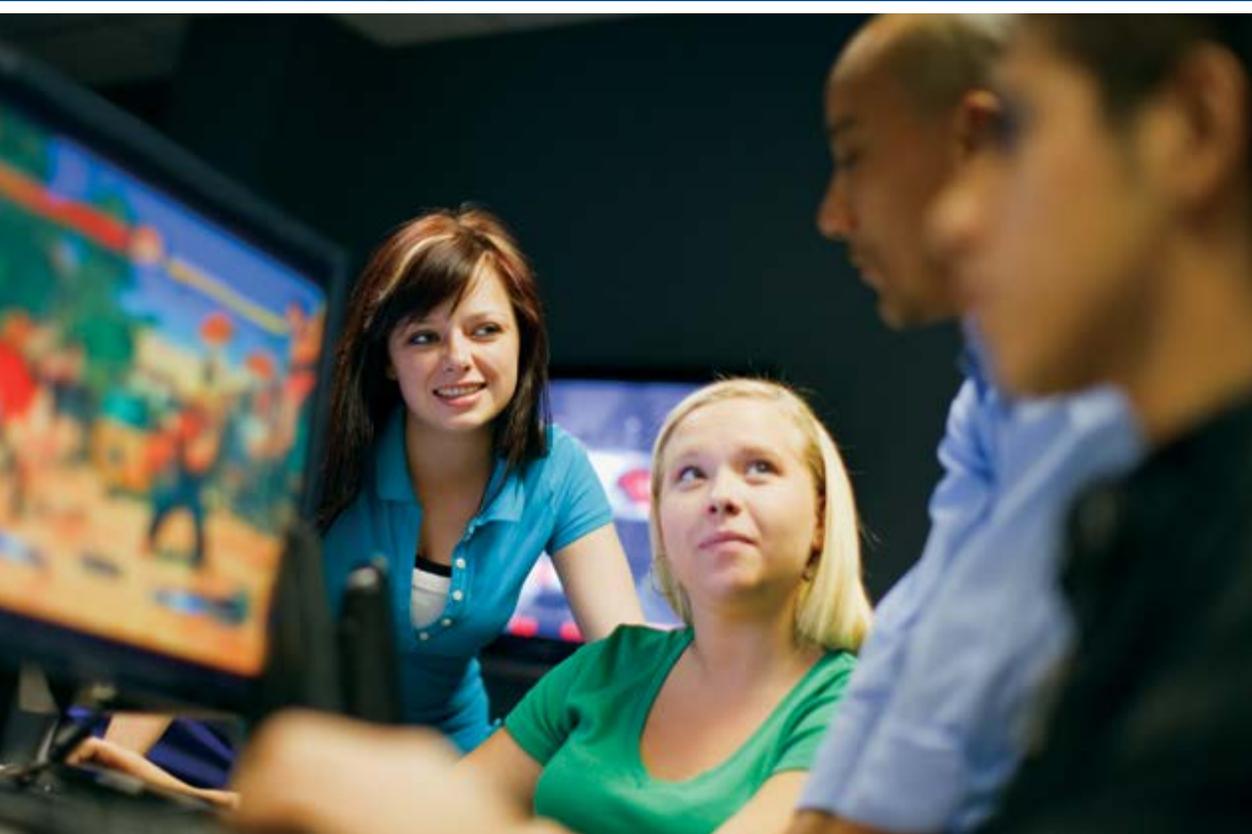
## STUDENT ACTIVITIES

DeVry offers a wide range of activities and organizations in which students can participate. Most activities are planned by the student association or activity organization at DeVry locations.

Activities in which students can participate may include intramural sports; production of a student newspaper; field trips; and special interest groups in such areas as chess, martial arts and photography. In addition, various curriculum-related organizations, such as computer and ham radio clubs, may be active.

Clubs and activities reflect students' interests and may change periodically. Questions concerning student activities can be addressed to the Student Services Office.

## PROFESSIONAL ASSOCIATIONS

Professional associations may include IEEE, the leading organization for electronics technology professionals and students; AITP (Association of Information Technology Professionals), for those interested in information systems or IT careers; ISA (Instrument Society of America), for engineering and science professionals and students; and several professional fraternities.

## HONOR SOCIETIES

A number of honor societies are available through DeVry. Students are encouraged to seek information on academic requirements for honor society membership.

# *Student* Services
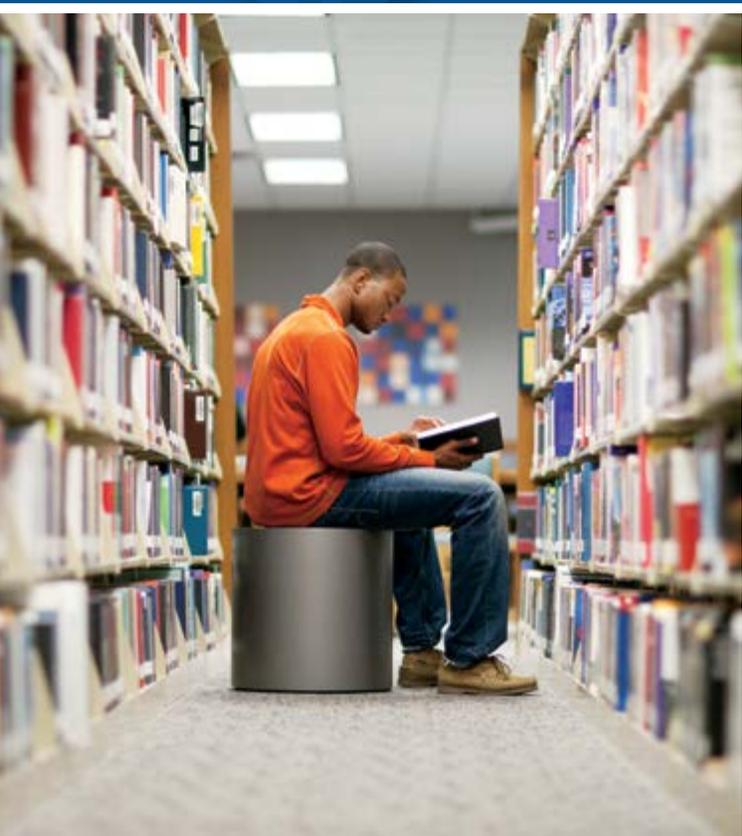
## COMMITTED TO SERVICE EXCELLENCE

In addition to providing educational programs to help students achieve their career and personal goals, DeVry is committed to providing service excellence to all who take advantage of the total DeVry University experience. The following pages provide valuable information on DeVry's student services, including:

- Career services
- Student awards
- Alumni Association
- ASPIRE student assistance
- Student housing
- Part-time-employment assistance

- Bookstore
- Student records
- Official Transcripts
- Army ROTC
- Servicemembers Opportunity Colleges
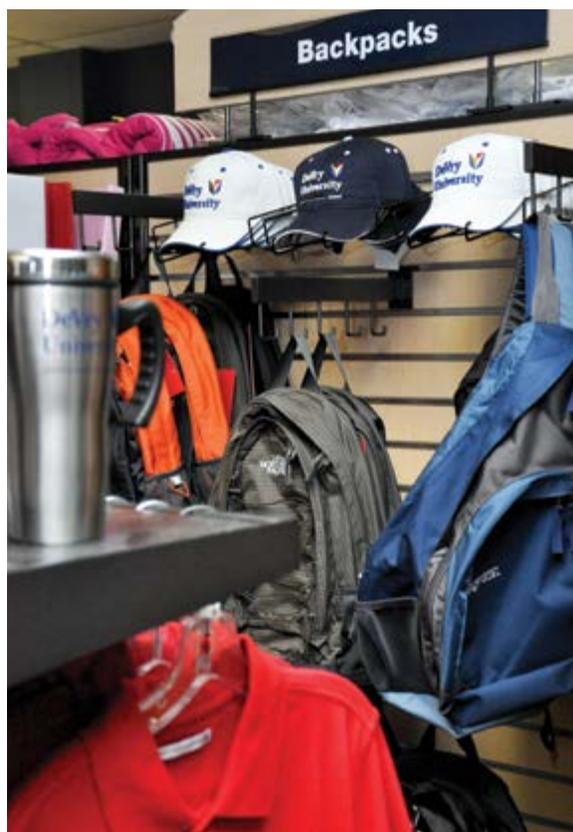
# Student **Services & ROTC**

## Career Services

Professionals across the DeVry system work diligently to help graduates attain positions in their career fields. Although DeVry cannot guarantee employment, the University's career services staff works diligently with graduates to guide and motivate them through the career search process. Staff members work with students on career planning, job interviewing and resumé preparation.

In addition, DeVry's career services professionals maintain ongoing contact with local and national employers to keep abreast of employment needs and opportunities throughout the country, and share this information with students and graduates.

As graduation approaches, students are advised of career opportunities so employment interviews with various companies can be scheduled. In many cases, company representatives conduct interviews at DeVry. To maximize employment opportunities, students/graduates are highly encouraged to consider positions in other geographic markets where career-related opportunities may be concentrated.

Students are encouraged to start their career searches well in advance of graduation. Those who postpone an active career search should note that the level of career services assistance they receive might be less comprehensive. Students who impose employment restrictions, such as opting not to relocate, may similarly restrict their employment options.

After graduation, those not yet employed are expected to continue an active employment search while continuing to receive career assistance from DeVry.

To comply with reporting requirements, DeVry reserves the right to contact a graduate's employer using various methods to verify information regarding the graduate's employment. In some instances, DeVry may disclose personal information to the employer for the sole purpose of employment verification; at no time will such information be published.

The level of career services offered to international students/graduates varies and depends on employment opportunities permitted by the North American Free Trade Agreement and/or on students'/graduates' visas.

DeVry's career services are geared to the needs of students and prospective employers. Students' career efforts are supported by:

### Employer Database

DeVry maintains an interactive employer database that contains information on thousands of North American companies. This database is available to students and alumni via the Internet and provides real-time access to current job leads, details on career events and other career-related information. Career Services may also leverage strategic partnerships for additional career-related resources.

### Career Fairs

Career fairs are held periodically to enable students to meet and talk with recruiters from various industries.

These and other services help support one of the strongest career services efforts in higher education.

*Note: DeVry employees are not entitled to career services. DeVry's graduate employment statistics are available through the Admissions Office and via* www.devry.edu/cservices.

## Student Awards

DeVry recognizes outstanding student achievement by granting annual awards for leadership, service, innovation and impact, academic performance and perseverance. These prestigious awards, among the highest bestowed by DeVry, honor individuals who have made outstanding contributions and achieved success through their dedication, involvement, service and creative leadership. Award recipients are recognized at local ceremonies often held at or near graduation.

### Leadership Award

This national award is bestowed upon the undergraduate student who has exhibited outstanding extracurricular leadership within the DeVry University community.

### Service Award

This national award is granted to the undergraduate student who has best exhibited outstanding service to the DeVry University community.

### Innovation and Impact Award

This national award is presented to the undergraduate individual or team deemed to have designed the most creative entrepreneurial project that would likely benefit a community.

### Academic Performance Award

This award is bestowed upon one student from each of the University's five Colleges who best demonstrates outstanding academic achievement in his or her program of study. Undergraduate students enrolled on campus or online may be eligible to receive this award.

### Perseverance Award

This award recognizes one undergraduate student from each of the University's five Colleges who has exhibited perseverance and achieved outstanding success under challenging circumstances. Undergraduate students enrolled on campus or online may be eligible to receive this award.

## Alumni Association

When students graduate they automatically become members of the DeVry Alumni Association, details on which are available at www.alumni.devry.edu. Graduates can also take advantage of DeVry's career assistance program, which helps alumni seeking new employment or careers. This service is available to graduates throughout their careers. Further information is available from DeVry's Career Services Offices.

For more information contact the Alumni Association at 800.73.DEVRY or via email at alumni@devry.edu.

### Alumni Tuition Benefit

In today's rapidly changing business world, continuing education is a lifelong process. To this end, alumni who hold a DeVry University bachelor's and/or master's degree may take advantage of the opportunity to enroll as nonmatriculating students in as many as 24 semester-credit hours of undergraduate coursework on a space-available basis for a group tuition rate. Students must submit a Tuition Reduction form prior to Sunday of week four of the session in order for the alumni tuition rate to be applied to the current session. If the form is submitted after this deadline, the alumni tuition rate becomes effective the following session. This benefit does not apply to graduate coursework. Details are available from the registrar or chief location administrator.

The application fee is waived for these individuals, as well as for family members of DeVry University alumni enrolling for undergraduate programs. Textbooks, course materials and other fees are charged at the standard rate. Additional information and requirements are available from DeVry admissions advisors.

*Note: Alumni who hold a DeVry University undergraduate certificate are not eligible for this benefit.*

## ASPIRE Student Assistance Program

Designed to help students overcome obstacles and achieve success both in- and outside the classroom, ASPIRE is a student assistance program that supplements the University's other student services. Offered at no additional charge, ASPIRE includes a wide range of support services such as counseling, legal and financial consultation; as well as referrals to housing, childcare and other resources for meeting daily life needs.

ASPIRE professionals can be reached at 888.470.1531 or via info@myaspireonline.com.

More information is available at www.myaspireonline.com.

## Housing

*Note: Formal housing assistance is not provided to online students or to those attending DeVry's New Jersey or New York locations.*

DeVry helps students secure living arrangements, and all housing to which students are referred complies with the University's policy of nondiscrimination in housing. Housing options may include:

### Private Apartments

The Student Housing Office maintains a list of available apartments in the local area. A security deposit equal to the first month's rent is generally required in advance to reserve these apartments. A rental or credit history may also be required. Leasing terms are established between apartment complexes/owners and students.

### Student Plan Housing

Student plan housing provides convenient, affordable housing. Most DeVry locations offer this option by which apartments are secured and arranged for through DeVry. Students using this option submit a reservation fee and form to the Student Housing Office to secure a furnished, shared apartment, and all subsequent housing fees are paid to DeVry.

### Private Rooms

The Student Housing Office maintains a list of available private rooms in private residences. Accommodations vary. Leasing terms are established between property owners and students.

Approximate housing costs and other information are available in the housing information packet or from the Student Housing Office. Students who need help locating housing or who have problems related to living arrangements should contact the office.

### Taylor Hall

Students attending DeVry's Fremont, California, campus may be able to take advantage of residence facility Taylor Hall. General information about Taylor Hall is available via www.fre.devry.edu/ResidenceLife.html; associated costs are found at http://www.fre.devry.edu/Move-inInformation.html.

## Part-Time-Employment Assistance

Most DeVry students work part time to help meet living expenses. The local Career Services Office makes non-industry part-time-job listings available to currently enrolled onsite students to assist them in finding part-time jobs while in school. The ASPIRE student assistance program offers additional help regarding part-time jobs (see *ASPIRE Student Assistance Program*). Other job search resources are available via the student portal, through My Compass to My Career.

In addition, DeVry may help upper-term students find career-related part-time jobs through the cooperative education (co-op) program. Co-op positions are limited in number and are generally awarded to students with above average academic performance.

Because employment opportunities depend on local business conditions, DeVry cannot guarantee jobs. However, DeVry works aggressively to secure part-time-job leads and to refer students to these leads. Early-term students should not expect part-time jobs to be in curriculum-related areas. Work schedules beyond 25 hours per week are not recommended.

### Bookstore

Textbooks, software and required supplies, such as parts and kits for lab projects, are available from the University's online bookstore, accessed via http://my.devry.edu. Supplementary books and supplies may also be available.

### Student Records

All materials submitted in support of students' applications, including transcripts from other institutions, letters of reference and related documents, become the property of DeVry University. During a student's enrollment, DeVry maintains records that include admission and attendance information, academic transcripts and other relevant data. Student academic records are maintained in accordance with DeVry's academic document retention schedule after the student is no longer enrolled. (Student academic records are maintained five years in California and New Jersey, and three years for veterans affairs records, after the student is no longer enrolled.) Students who wish to review their files must submit a written request to the registrar. Permanent student records include admission information and academic transcripts.

Except as required by law, no information regarding attendance, grades or any other aspect of students' academic standing will be released to any third party without written student consent.

### Official Transcripts

Students and alumni are charged a fee for each electronic transcript and for each paper transcript (see *Expenses*). Students must submit requests for official transcripts via the student portal. Students are provided an electronic, final transcript at no charge upon graduation. Official transcripts are not issued until all financial obligations to any DeVry institution are fulfilled.

### Army ROTC – Columbus, Ohio

Qualified students interested in obtaining an Officer's Commission in the U.S. Army, Ohio National Guard or Army Reserve may enroll in Army ROTC classes through a contracted agreement between Capital University and the U.S. Army.

Training is composed of classroom activities and outdoor instruction. Freshman and sophomore students may enroll in the four-year program consisting of the two-year general military course and the two-year Professional Officer course. There is no military obligation for students in the first two years of the program.

Students with a minimum 2.50 cumulative grade point average may apply for Army ROTC scholarships. Scholarship applications are normally made during the fall semester and must be completed by January 30.

Information on specific Army ROTC courses is available from the registrar. Additional information is available from the program chairperson for military science at 614.236.7114.

### Servicemembers Opportunity Colleges

DeVry University is a part of the Servicemembers Opportunity Colleges (SOC) Degree Network System (DNS). As part of the DNS, DeVry adheres to academic policies intended to support all military students in their academic endeavors toward degree completion.

DeVry's participation in the DNS applies to specific academic programs and may change at any time. Additional information is available from DeVry admissions advisors/representatives and via www.soc.aascu.org.

knowledge
SUCCESS

# DeVry Leadership, **Mission & Quality**

Backing all DeVry University programs and services is a solid core of experts in the education arena as well as seasoned business professionals. These leaders lend their expertise to the University to enhance our value to students and the communities we serve.

A hallmark of a DeVry University education is the accreditation the University has been granted from The Higher Learning Commission. The in-depth accreditation process, along with program-specific accreditations, provides assurance that rigorous standards of quality have been met.

The following pages feature DeVry _leadership_, our _mission and purposes_, as well as detailed information on our _accreditation_ and _state approvals_.

**ACCREDITED**

Higher Learning Commission

LINK TO THE HLC WEB SITE

Our job is to help our students **achieve success and a better life** through education.

# DeVry Education Group **Leadership**

## DeVry Education Group Board of Directors

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Board Chair
Executive Chairman of the Board
and Founding Chief Executive
Officer (Retired)
Hospira, Inc.

**David Brown, Esq.**
Attorney-at-Law (Retired)

**Daniel Hamburger**
President and Chief Executive Officer
DeVry Education Group

**Lyle Logan**
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The Northern Trust Company

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Service Professor
George Mason University

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The Dow Chemical Company

**Ronald Taylor**
Senior Advisor
DeVry Education Group

**Lisa Wardell**
Executive Vice President
and Chief Operating Officer
The RLJ Companies

**James White**
Chairman, President and
Chief Operating Officer
Jamba, Inc.

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President, Carrington College

**Gregory Davis, JD**
General Counsel

**Eric Dirst**
President, DeVry Online Services

**Carlos Filgueiras**
President, DeVry Brasil

**Susan Groenwald, MSN**
President, Chamberlain College
of Nursing

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President and Chief Executive Officer

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Senior Vice President, Human Resources

**Chris Nash**
Chief Information Officer

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Senior Vice President, External Relations

**Timothy Wiggins**
Senior Vice President, Chief Financial
Officer and Treasurer

# DeVry University Leadership

*DeVry University Board of Trustees, top row (l to r): Carlos Filgueiras, Barbara Higgins, Donna Loraine, Alan Merten; bottom row (l to r): Grace Ng, Robert Paul, Richard Rodriguez, Newton Walpert*

# Mission, Accreditation & Approvals

## Mission and Purposes

The mission of DeVry University is to foster student learning through high-quality, career-oriented education integrating technology, science, business and the arts. The university delivers practitioner-oriented undergraduate and graduate programs onsite and online to meet the needs of a diverse and geographically dispersed student population.

DeVry University seeks to consistently achieve the following purposes:

- To offer applications-oriented undergraduate education that includes a well-designed liberal arts and sciences component to broaden student learning and strengthen long-term personal and career potential.
- To offer practitioner-oriented graduate education that focuses on the applied concepts and skills required for success in a global economy.
- To provide market-driven curricula developed, tested, and continually improved by faculty and administrators through regular outcomes assessment and external consultation with business leaders and other educators.
- To continually examine the evolving needs of students and employers for career-oriented higher education programs as a basis for development of additional programs.
- To promote teaching excellence through comprehensive faculty training and professional development opportunities.
- To provide an interactive and collaborative educational environment that strengthens learning, provides credentialing opportunities, and contributes to lifelong educational and professional growth.
- To provide student services that contribute to academic success, personal development, and career potential.
- To serve student and employer needs by offering effective career entry and career development services.

## Institutional Accreditation

*Note: Copies of documents describing DeVry University's accreditation, as well as its state and federal approvals, are available for review from the chief location administrator.*

In the United States, current or prospective students may review information regarding accreditation, approvals and licensing by contacting the chief location administrator.

DeVry University is accredited by The Higher Learning Commission (HLC), www.hlcommission.org. The University's Keller Graduate School of Management is included in this accreditation.

The HLC is one of eight regional agencies that accredit U.S. colleges and universities at the institutional level; is recognized by both the U.S. Department of Education and the Council for Higher Education Accreditation; and accredits approximately one-third of U.S. regionally accredited public and private institutions. Accreditation provides assurance to the public and to prospective students that standards of quality have been met.

DeVry University is a member of the Council for Higher Education Accreditation, a national advocate and institutional voice for self-regulation of academic quality through accreditation. CHEA, an association of 3,000 degree-granting colleges and universities, recognizes 60 institutional and programmatic accrediting organizations.

## Programmatic Accreditation and Recognition

### ACBSP

The following DeVry University programs have achieved voluntary accreditation from the Accreditation Council for Business Schools and Programs (ACBSP) www.acbsp.org, demonstrating that they have met standards of business education that promote teaching excellence:

- Associate of Applied Science in Accounting
- Bachelor of Science in Business Administration
- Bachelor of Science in Technical Management

The ACBSP has also granted specialized accounting accreditation to the following established DeVry University degree programs: Bachelor of Science in Business Administration with a specialization in accounting; Bachelor of Science in Technical Management with a specialization in accounting.

### ETAC of ABET

The following programs, at the following locations, are accredited by the Engineering Technology Accreditation Commission of ABET (ETAC of ABET), www.abet.org:

***Baccalaureate Biomedical Engineering Technology***
Addison, Chicago, Columbus, Decatur, Ft. Washington, Fremont, Irving, Midtown Manhattan, Miramar, North Brunswick, Orlando, Phoenix, Tinley Park

***Baccalaureate Computer Engineering Technology***
Addison, Alpharetta, Arlington, Chicago, Columbus, Decatur, Federal Way, Ft. Washington, Fremont, Houston, Irving, Kansas City, Long Beach, Midtown Manhattan, Miramar, Orlando, Phoenix, Pomona, Sherman Oaks, Tinley Park, Westminster

***Baccalaureate Electronics Engineering Technology***
Addison, Alpharetta, Arlington, Chicago, Columbus, Decatur, Federal Way, Folsom, Ft. Washington, Fremont, Houston, Irving, Kansas City, Long Beach, Midtown Manhattan, Miramar, North Brunswick, Orlando, Phoenix, Pomona, Sherman Oaks, Tinley Park, Westminster

ETAC of ABET requires separate review of each engineering technology program both online and at each physical location. The following programs, offered online and onsite, are not accredited by ETAC of ABET: Engineering Technology – Computers, and Engineering Technology – Electronics. DeVry will seek accreditation for these programs when appropriate, in accordance with ETAC of ABET procedures. Future accreditation is not guaranteed. DeVry Calgary CET and EET programs are not eligible for ETAC of ABET accreditation.

The most recent information on ETAC of ABET accreditation is available at each location and at www.devry.edu.

*Note: In New York State, DeVry University operates as DeVry College of New York. In Calgary, Alberta, DeVry University operates as DeVry Institute of Technology.*

## CAAHEP

The Neurodiagnostic Technology program at the North Brunswick campus is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Committee on Accreditation for Education in Neurodiagnostic Technology. CAAHEP, 1361 Park St., Clearwater, FL 33756, 727.210.2350, www.caahep.org.

## CAHIIM

The following programs, at the following locations, are accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), www.cahiim.org:

***Associate Health Information Technology***
Online, Chicago, Columbus, Decatur, Ft. Washington, Houston, Irving, North Brunswick, Pomona

***Baccalaureate Technical Management with Health Information Management Specialty***
Online

CAHIIM requires separate review of each eligible program both online and at each physical location; evaluation for accreditation may not be requested until the program at that location is fully operational, and future accreditation is not guaranteed. The most recent information on CAHIIM accreditation of a location's HIT program, or of the BSTM program with a technical specialty in health information management, is available from the location and at www.devry.edu.

## NAACLS

The Clinical Laboratory Science program at DeVry's Phoenix campus is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Rd., Ste. 720, Rosemont, IL 60018, 773.714.8880, www.naacls.org. DeVry will seek accreditation for this program in Houston when appropriate. Future accreditation is not guaranteed.

## PMI

DeVry University's Business Administration program, when completed with a project management major/concentration, is accredited by the Project Management Institute's Global Accreditation Center, as is the Technical Management program, when completed with a project management technical specialty. More information on this accreditation is available via www.pmi.org.

## SHRM

The Society for Human Resource Management has acknowledged that the following programs fully align with SHRM's *HR Curriculum Guidebook and Templates:* Business Administration, with human resource management major/concentration; Management, with human resource management concentration; Technical Management, with human resource management technical specialty. More information on SHRM is available at www.shrm.org.

## Approvals

**Arizona:** DeVry is authorized to operate and grant degrees by the Arizona State Board for Private Postsecondary Education, 1400 W. Washington St., Phoenix 85007, 602.542.5709.

**California:** DeVry is a private institution approved to operate by the California Bureau for Private Postsecondary Education. Approval to operate means the institution is compliant with the minimum standards contained in the California Private Postsecondary Education Act of 2009 (as amended) and Division 7.5 of Title 5 of the California Code of Regulations. For additional information please visit the Bureau's Internet website at www.bppe.ca.gov.

**Colorado:** DeVry is approved to operate by the Colorado Commission on Higher Education, 1290 Broadway, Denver 80203, 303.866.2723.

**Florida:** DeVry is licensed by the Commission for Independent Education, Florida Department of Education. Additional information regarding this institution may be obtained by contacting the Commission at 325 W. Gaines St., Ste. 1414, Tallahassee 32399-0400, toll-free telephone number 888.224.6684.

**Georgia:** DeVry is authorized to operate by the Georgia Nonpublic Postsecondary Education Commission, 2189 Northlake Pkwy., Tucker 30084, 770.414.3300.

**Illinois:** DeVry is authorized to operate and grant degrees by the Illinois Board of Higher Education, 431 E. Adams, Springfield 62701, 217.782.3442. To report unresolved complaints to the Illinois Board of Higher Education visit their webpage at http://complaints.ibhe.org/.

**Indiana:** DeVry is authorized by the Indiana Board for Proprietary Education, 101 W. Ohio St., Ste. 670, Indianapolis 46204, 317.464.4400, Ext. 138 and Ext. 141.

**Kansas:** DeVry is approved by the Kansas Board of Regents, 1000 SW Jackson St., Ste. 520, Topeka 66612, 785.296.3421.

**Kentucky:** DeVry University is licensed by the Kentucky Council on Postsecondary Education, 1024 Capital Center Dr., Ste. 320, Frankfort 40601, 502.573.1555.

**Louisiana:** DeVry University is currently licensed by the Board of Regents of the State of Louisiana. Licenses are renewed by the State Board of Regents every two years. Licensed institutions have met minimal operational standards set forth by the state, but licensure does not constitute accreditation, guarantee the transferability of credit, nor signify that programs are certifiable by any professional agency or organization.

**Maryland:** DeVry University is approved to operate under authority of the Maryland Higher Education Commission, 6 N. Liberty St., 10th Flr., Baltimore 21201, 410.767.3301.

**Michigan:** DeVry University is authorized to operate and grant degrees in the state of Michigan under the laws of the Michigan Department of Licensing and Regulatory Affairs, CSCL/Licensing Division, P.O. Box 30018, Lansing 48909, 517.241.9288.

**Minnesota:** DeVry University is registered as a private institution with the Minnesota Office of Higher Education (1450 Energy Park Dr., Ste. 350, St. Paul 55108) pursuant to sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

**Missouri:** DeVry is certified to operate by the Missouri Department of Higher Education, 205 Jefferson St., Jefferson City 65102-1469, 573.751.2361.

**Nevada:** DeVry is licensed to operate in the state of Nevada by the Nevada Commission on Postsecondary Education, 8778 S. Maryland Pkwy., Ste. 115, Las Vegas 89123, 702.486.7330.

*Note: The state of Nevada requires students to meet its require-ment for study of the Nevada and U.S. constitutions. DeVry's POLI332 course fulfills this requirement.*

**New Jersey:** DeVry is licensed by the New Jersey Office of the Secretary of Higher Education, P.O. Box 542, Trenton 08625-0542, 609.292.4310.

**New York:** DeVry has received permission to operate its academic programs in New York from the University of the State of New York Board of Regents/The State Education Department, 89 Washington Ave., 5 North Mezzanine, Albany 12234, 518.474.2593. The follow-ing programs are registered with the state: Bachelor of Profes-sional Studies in Business Administration, Computer Information Systems, and Network & Communications Management; Bachelor of Technology in Biomedical Engineering Technology, Computer Engineering Technology and Electronics Engineering Technology.

**North Carolina:** DeVry has been evaluated by the University of North Carolina (910 Raleigh Rd., Chapel Hill 27515, 919.962.4559) and is licensed to conduct higher education degree activity. The School's guaranty bond for unearned prepaid tuition is on file with the Board of Governors of the University of North Carolina and may be viewed by contacting the Licensing Department at DeVry Education Group.

**Ohio:** DeVry holds Certificate of Authorization by the Ohio Board of Regents, 30 E. Broad St., Columbus 43215, 614.466.6000.

**Oklahoma:** DeVry University is authorized to offer degree programs by the Oklahoma State Regents for Higher Education, 655 Research Pkwy., Ste. 200, Oklahoma City 73104, 405.225.9100.

**Oregon:** DeVry University is a unit of a business corporation authorized by the state of Oregon to offer and confer the academic degrees described herein, following a determination that state academic standards will be satisfied under OAR 583-030. Inquiries concerning the standards or school compliance may be directed to the Higher Education Coordinating Commission, Office of Degree Authorization, 775 Court St., Northeast Salem 97301.

**Pennsylvania:** DeVry is approved and authorized to operate by the Pennsylvania Department of Education, 333 Market St., Harrisburg 71726, 717.783.9255. In Pennsylvania, instructional hours for all courses scheduled to meet on days falling on recog-nized holidays will be made up by one or more of the following deemed appropriate by the faculty and approved by the dean of academic affairs: lengthened class sessions, pre-course readings, team projects, group meetings.

**Tennessee:** DeVry University is authorized by the Tennessee Higher Education Commission, Parkway Towers, Ste. 1900, Nashville 37243, 615.741.5293. This authorization must be renewed each year and is based on an evaluation by minimum standards con-cerning quality of education, ethical business practices, health and safety, and fiscal responsibility.

**Texas:** DeVry is authorized to grant degrees by the Texas Higher Education Coordinating Board, Box 12788, Austin 78711, 512.427.6225, 512.427.6168 fax. Eligibility to sit for the Certified Public Accountant (CPA) exam and be licensed as a CPA in Texas requires CPA applicants to have attended an institution accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS), or by a specialized or professional accrediting organization such as the Accreditation Council for Business Schools and Programs (ACBSP). DeVry University has achieved voluntary accreditation from the ACBSP for certain busi-ness programs. See *Institutional Accreditation* as well as *Program-matic Accreditation and Recognition* for additional information.

These programs are not approved or regulated by the Texas Workforce Commission.

**Virginia:** DeVry is certified to operate by the State Council of Higher Education for Virginia, 101 N. 14th St., Richmond 23219, 804.255.2621. Associate degree programs are considered terminal and credits earned in these programs are generally not applicable to other degrees. More information on applicability of credits earned in associate degree programs to bachelor's degree programs is available from DeVry admissions representatives.

**Washington:** DeVry University is authorized by the Washington Student Achievement Council and meets the requirements and minimum educational standards established for degree-granting institutions under the Degree-Granting Institutions Act. This author-ization is subject to periodic review and authorizes DeVry University to offer specific degree programs. The Council may be contacted for a list of currently authorized programs. Authorization by the Council does not carry with it an endorsement by the Council of the institu-tion or its programs. Any person desiring information about the requirements of the Act or the applicability of those requirements to the institution may contact the Council at P.O. Box 43430, Olympia, WA 98504-3430.

Selected programs of study at DeVry University are approved by the Workforce Training and Education Coordinating Board's State Approv-ing Agency (WTECB/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.

DeVry University does not and will not provide any commission, bonus, or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any persons or entities engaged in any student recruiting or admissions activities or in making decisions regarding the award of student financial assistance.

**Wisconsin:** DeVry is approved by the Wisconsin Educational Approval Board, 201 W. Washington Ave., 3rd Flr., Madison 53708-8696, 608.266.1996.

## Bankruptcy Statement

DeVry University does not have a pending petition in bankruptcy, is not operating as a debtor in possession, has not filed a petition within the preceding five years, and has not had a petition in bankruptcy filed against it within the preceding five years that resulted in reorganization under Chapter 11 of the United States Bankruptcy Code.

# Colleges & Programs of Study

### College of
## Business & Management

- Accounting, associate degree
- Accounting, bachelor's degree
- Business Administration
- Management
- Technical Management

### College of
## Engineering & Information Sciences

- Electronics & Computer Technology
- Network Systems Administration
- Biomedical Engineering Technology
- Computer Engineering Technology
- Computer Information Systems
- Electronics Engineering Technology
- Engineering Technology – Computers
- Engineering Technology – Electronics
- Game & Simulation Programming
- Network & Communications Management

### College of
## Media Arts & Technology

- Web Graphic Design
- Multimedia Design & Development

### College of
## Health Sciences

- Medical Billing & Coding
- Health Information Technology
- Neurodiagnostic Technology
- Clinical Laboratory Science
- Healthcare Administration

### College of
## Liberal Arts & Sciences

- Communications
- Justice Administration

## GENERAL NOTES

The pages that follow describe each DeVry University program, including program objectives, degree or certificate awarded, program length, and program outlines that display program options and courses required for graduation. DeVry reserves the right to change graduation requirements and to revise, add or delete courses.

Applicants and students should consult DeVry's admissions staff, or their student support advisor or academic advisor, when reviewing information regarding DeVry locations, programs and courses such as:

**Enrolled Location**
Students' home location is determined at the time of admission. This location, known as the enrolled location, is reflected in enrollment materials and in DeVry's student information system. Students may take some classes online and at other DeVry locations. However, programs and specializations are limited to those offered by students' enrolled location. At some locations, restrictions may be placed on coursework taken online.

**Programs**
When choosing programs and selecting courses and areas of specialization, students should be aware that availability of programs, specializations (including concentrations, majors, technical specialties and tracks) and courses varies by location. Some courses, including those required for some specializations, may be available online only. However, in some programs, some courses may not be taken online.

Program outlines show the minimum credit hours required for graduation. In some programs, there may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

## Specializations

Successful completion of a specialization – including concentrations, majors, technical specialties and tracks – is noted on transcripts of students who declare such a specialization. Specializations are not shown on diplomas.

## Courses

The following courses, when applicable to the chosen program, must be taken at DeVry: CARD205; CARD405; CARD415; LAS432; and senior project courses ACCT461, BUSN460, BUSN462, BUSN463, CIS470, CIS474, CIS477, CLS450, CLS451, COMM491, COMM492, ECET390, ECET492L, ECET493L, ECET494L, GSP494, GSP497, JADM490, JADM494, MDD460, MDD461, NETW490, NETW494 and NETW497.

Transfer and proficiency credits are not granted to fulfill these requirements.

## Program Footnotes

Some situations may result in program requirements that differ from those shown in the program outlines. Footnotes that refer to specific state requirements indicate their applicability to students enrolled at a location within the state, to state residents enrolled as online students or to both. Footnotes refer to students' enrolled location, as defined above, regardless of the location at which students' classes are taught.

## DeVry Associate Degree Graduates

For students who earned a DeVry associate degree and are enrolling in a DeVry bachelor's degree program, DeVry reviews DeVry associate degree program coursework for applicability to the bachelor's degree program. In addition DeVry may adjust bachelor's degree program requirements as follows:

- Successful completion of ETHC232 may be used to fulfill a Humanities requirement in the bachelor's degree program.

- Successful completion of CARD205 may be used to fulfill part of the Personal and Professional Development requirement in the bachelor's degree program, and CARD415 is taken in lieu of CARD405.

# College of **Business & Management**

DeVry University's College of Business & Management offers a variety of degree programs to help students meet their educational goals and enhance their career success. Programs and courses – offered onsite and online days, evenings and weekends – are taught by faculty with real-world experience, who translate theory into practice and provide an enriching education through experiential learning, practitioner-based projects, case studies and more.

The following pages provide details on undergraduate programs offered through the College of Business & Management. Further information on other undergraduate and graduate degree programs and offerings available through the College at other locations and online is available via www.devry.edu.

## BUSINESS & MANAGEMENT PROGRAMS

### *Associate* degree

- Accounting

### *Bachelor's* degree

- Accounting
- Business Administration
- Management
- Technical Management

### *Master's* degree

- Accounting
- Accounting & Financial Management
- Business Administration
- Human Resource Management
- Project Management
- Public Administration

# Accounting Program, Associate Degree

DeVry's associate degree program in Accounting equips students with the knowledge, skills and abilities needed to function as entry-level accounting professionals in public accounting, industry, nonprofit organizations and government. Coursework – taught from the practitioner's perspective – focuses on applying accounting and financial management concepts and skills to real-world applications while providing students with a solid base in accounting theory.

Coursework builds students' knowledge and skills in key functional areas including financial accounting and reporting, managerial accounting, personal taxation and accounting technology. The program also addresses key principles of business administration and provides students with a solid base in general education.

### Program Objectives

The program is designed to produce graduates who are able to:

- Apply accounting and finance principles to fundamental accounting tasks.
- Use accounting technology for accounting and financial tasks and data analysis.
- Communicate effectively both orally and in writing.
- Demonstrate teamwork skills.
- Apply problem-solving skills.

DeVry accomplishes these goals by:

- Providing an academic program that offers foundational knowledge of accounting, tax and related concepts, as well as analysis techniques integrated with contemporary technology.
- Incorporating application technology into courses for reinforcement and problem-solving.
- Integrating general competencies into technical and nontechnical courses throughout the program.

### Program Details

**Degree:** Associate of Applied Science in Accounting (in Florida, Associate of Science in Accounting; in Minnesota, Associate in Applied Science in Accounting)

**Semesters:** 4 full time

**Minimum credit hours required for graduation:** 65

**Normal time to complete:** 2 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

**For comprehensive consumer information, visit devry.edu/aa**

### Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

| Course Area / Minimum Credit Hours |
| --- |

**Communication Skills / 11**
(a) all of: ENGL112; ENGL135
(b) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 3**
(a) ETHC232

**Social Sciences / 3**
(a) one of: PSYC110; SOCS185; SOCS190

**Personal and Professional Development / 5**
(a) all of: CARD205; COLL148

**Mathematics and Natural Sciences / 8**
(a) MATH114
(b) one of: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

**Business and Accounting / 35**
(a) all of: ACCT212; ACCT216; ACCT217; ACCT224; ACCT244; ACCT251; BIS155; BIS245; BUSN115; BUSN278; COMP100

# Accounting Program, Bachelor's Degree

DeVry's bachelor's degree program in Accounting is designed to prepare students for a variety of career paths including private-sector, governmental and not-for-profit accounting. The program includes coursework that provides a solid academic foundation in problem-solving, accounting research and communication skills important in the diverse field of accounting and the broader business world. The program is also designed to prepare students for graduate study in accounting or business.

The program is designed to produce graduates who are able to:

- Generate, understand and interpret financial statements and information.
- Analyze transactions and processes, evaluate risk, and recommend internal controls for operational efficiencies and integrity.
- Evaluate costing systems, and prepare budgets to support managerial decision-making.
- Analyze and clearly communicate accounting information as part of business decision-making.
- Demonstrate professional integrity in a variety of accounting scenarios.
- Participate effectively in collaborative environments.
- Apply problem-solving skills that support lifelong personal and professional development.

### Program Details

**Degree:** Bachelor of Science in Accounting

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 124

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

### Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

**Course Area / Minimum Credit Hours**

### Communication Skills / 15
(a) all of: ENGL112; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

*Note: All students should see General Notes at the beginning of Colleges & Programs of Study.*

*Note: Credits and degrees earned from this institution do not automatically qualify the holder to participate in professional licensing exams to practice certain professions. Persons interested in practicing a regulated profession must contact the appropriate state regulatory agency for their field of interest.*

**For comprehensive consumer information, visit devry.edu/ba**

**Course Area / Minimum Credit Hours**

### Humanities[1] / 9
(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

### Social Sciences[1] / 9
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[2]: PSYC290; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of: LAWS310; LAWS420; POLI330; POLI410

### Personal and Professional Development / 5
(a) all of: CARD405; COLL148

### Mathematics and Natural Sciences / 12
(a) all of: MATH114; MATH221
(b) one of: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

### General Business and Technology / 24
(a) all of: ACCT212; BIS155; BUSN115; BUSN319; BUSN379; COMP100; ECON312; MGMT303

### Accounting Core / 31
(a) all of: ACCT304; ACCT305; ACCT312; ACCT346; ACCT439; ACCT444; ACCT451
(b) one of: ACCT324; ACCT429

### Accounting Selections / 11
(a) three of: ACCT349; ACCT405; ACCT424; ACCT440; BUSN420

### Accounting Senior Project / 3
(a) ACCT461

### Electives / 6
(a) A minimum of six semester-credit hours is selected from any courses listed in this catalog, provided prerequisites are satisfied. Some elective hours may need to be used to satisfy prerequisites for courses in the selections and/or to meet specific state accountancy board requirements.

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1  *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:*
   *Humanities / 6*
   *(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428*
   *(b) one of: ETHC445; PHIL447; PHIL449*
   *Social Sciences / 12*
   *(a) one of: PSYC110; SOCS185; SOCS190*
   *(b) one of: HUMN460SA; PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350*
   *(c) one of: HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448*
   *(d) LAS432*
2  *Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.*

# Business Administration Program

Students in DeVry's Business Administration program develop competency in applying technology to business strategy, management and decision-making through case studies, team projects, Internet use and web page development, as well as computer applications and systems integration. The program offers majors (concentrations in Illinois, New York and Pennsylvania) as shown in the following program outline.

Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a major/concentration or general business option by the time they have earned 30 semester-credit hours toward their degree.

### Program Objectives
The program is designed to produce graduates who are able to:
- Communicate effectively using oral, written and electronic means.
- Develop leadership skills while working in teams to accomplish common goals.
- Develop business and decision-making skills that support and enable lifelong professional development.
- Understand legal and ethical implications of personal, social and business activities.
- Use critical thinking, as well as logical analysis skills and techniques, to solve complex business problems.
- Demonstrate effective teamwork with diverse populations in multiple business settings, as well as effective use of real-world applications in business solutions.

### Program Details – Business Administration Program with Majors/Concentrations
**Degree:** Bachelor of Science in Business Administration (in New York, Bachelor of Professional Studies in Business Administration; in Ohio, Bachelor of Business Administration)

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 124[1]

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

*Note: All students should see General Notes at the beginning of Colleges & Programs of Study.*

*Note: Students enrolled at a New Jersey location must take an additional six semester-credit hours of general education coursework from among the following course areas: communication skills, humanities, social sciences, mathematics and natural sciences. Courses selected in humanities or social sciences should be upper-division coursework (DeVry courses numbered 300–499).*

*Note: Credits and degrees earned from this institution do not automatically qualify the holder to participate in professional licensing exams to practice certain professions. Persons interested in practicing a regulated profession must contact the appropriate state regulatory agency for their field of interest.*

1   128 for students enrolled at New Jersey location

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There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

### Program Outline
Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

| Course Area / Minimum Credit Hours |
| --- |

**Communication Skills / 15[2]**
(a) all of: ENGL112[3]; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities[4] / 9**
(a) one of: HUMN303[5]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[6]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; HUMN460SA; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences[4] / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[7]: HUMN460SA; PSYC290[5]; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of[8,9]: LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5[10]**
(a) all of: CARD405; COLL148

2   14 for students enrolled at a New Jersey location
3   Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
4   Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:
   Humanities / 6
   (a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
   (b) one of: ETHC445; PHIL447; PHIL449
   Social Sciences / 12
   (a) one of: PSYC110; SOCS185; SOCS190
   (b) one of: HUMN460SA; PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
   (c) one of: HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448
   (d) LAS432
5   Arkansas residents enrolled as online students must take this course.
6   Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.
7   Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.
8   Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.
9   Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.
10  For students enrolled at a New Jersey location, credit hours awarded for Personal and Professional Development courses result in institutional credit only.

# Business Administration Program (continued)

| Course Area / Minimum Credit Hours |
| --- |

### Mathematics and Natural Sciences / 12 [11]

(a) all of: MATH114; MATH221

(b) selection by major/concentration:

- *Sustainability Management students:* SCI204
- *All other students – one of* [12]: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

### Business Core [13] / 36 [14]

(a) all of: ACCT212; ACCT346; BIS155; BIS245; BUSN115; BUSN319; BUSN379; COMP100; ECON312; MGMT303

(b) selection by major/concentration:

- *Accounting students – one of:* ACCT349; ACCT424
- *All other students:* MGMT404

### Senior Project – one option is selected / 3

(a) BUSN460

(b) all of: BUSN462; BUSN463

### Electives [15,16] / 9

(a) Electives are chosen through academic advising from courses substantially different from those used to meet any other graduation requirement. They may be selected from the following courses, from another course area in the Business Administration program, or from other courses listed in this catalog, provided prerequisites are satisfied. Where noted, some elective hours must be used to meet specialized requirements or to satisfy prerequisites for courses in the major/concentration. Qualifying prior college coursework not meeting other program requirements may be applied toward the elective hours.

Suggested electives for all students are ACCT424; BUSN369; BUSN380; BUSN412; BUSN420; GSCM206; and INTP491 and INTP492.

### Major/Concentration – one option is selected / 27

For the advanced course option shown in selected majors/concentrations, a minimum of three semester-credit hours is chosen from courses offered in any of this program's majors/concentrations and for which course prerequisites have been satisfied.

As part of the advanced course option, students may choose to complete both INTP491 and INTP492. Students choosing to complete INTP491 and INTP492 must receive approval to do so from the appropriate academic administrator.

| Course Area / Minimum Credit Hours |
| --- |

### Accounting [17]

(a) all of: ACCT304; ACCT305; ACCT312; ACCT444; ACCT451

(b) one of: ACCT324; ACCT429

(c) one of: ACCT405; advanced course option

### Business Information Systems

(a) all of: BIS261; BIS311; BIS325; BIS345; BIS360; BIS445; BIS450

### Business Intelligence and Analytics Management

(a) all of: BIAM300; BIAM400; BIAM410; BIAM420; BUSN350; GSCM206; GSCM209

### Finance

(a) all of: ACCT304; BUSN278; FIN382; advanced course option

(b) three of: ACCT429; FIN351; FIN364; FIN385

### Global Supply Chain Management

(a) all of: GSCM206; GSCM209; GSCM326; GSCM330; GSCM434; GSCM440; GSCM460

### Health Services Management

(a) all of: HSM310; HSM320; HSM330; HSM340; HSM410; HSM420

(b) one of: HSM430; advanced course option

### Hospitality Management

(a) all of: HOSP310; HOSP320; HOSP330; HOSP410; HOSP420; HOSP450

(b) one of: HOSP440; advanced course option

### Human Resource Management

(a) all of: HRM320; HRM340; HRM410; HRM420; HRM430; MGMT410

(b) one of: HRM330; advanced course option

### Project Management

(a) all of: ACCT434; GSCM326; MGMT340; PROJ410; PROJ420; PROJ430

(b) one of: PROJ330; advanced course option

### Sales and Marketing

(a) all of: MKTG310; MKTG320; MKTG410; MKTG425; MKTG430; SBE330

(b) one of: ECOM340; advanced course option

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11 11 for students enrolled at a New Jersey location

12 Students enrolled at a New Jersey location may take PHYS204 or SCI200 to fulfill this requirement.

13 Students enrolled at a New Jersey location must also take the following to fulfill this requirement:
(a) all of: BUSN412; GSCM206
(b) one of: BUSN369; INTP491 and INTP492

14 45 for students enrolled at a New Jersey location, where the nine additional credit hours satisfy credits required in the Electives course area

15 Arkansas residents enrolled as online students must take one additional course from group (b) in the Mathematics and Natural Sciences course area as part of this requirement.

16 Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, may not apply MATH103 to graduation requirements.

17 Students interested in sitting for the CPA exam in Texas should consider completing ACCT349, ACCT440 and MGMT330 as elective course options. Successful completion of topics presented in these courses is required to sit for the CPA exam in Texas.

# Business Administration Program (continued)

### Security Management
(a) all of: SEC310; SEC320; SEC330; SEC410; SEC415; SEC420; advanced course option

### Small Business Management and Entrepreneurship
(a) all of: BUSN258; BUSN278; SBE310; SBE430; SBE440
(b) one of: SBE330; SBE420
(c) one of: MGMT410; advanced course option

### Sustainability Management
(a) all of: ECON410; MKTG440; SOCS325; SUST310; SUST320; SUST410
(b) one of: BUSN369; BUSN412; BUSN420; GSCM326; SBE330

### Technical Communication
(a) all of: TC220; TC310; TC320; TC360; TC420; TC440
(b) one of: TC160; TC430; TC450

## Business Administration Program – General Business Option Plan II[18]

Qualified graduates of approved international three-year business-related programs may select this option, which provides a direct path to earning a recognized bachelor's degree. International credentials considered for approval – from China, India, Singapore and the United Kingdom, among others – include higher national diplomas, three-year bachelor's degrees and the equivalent.

Plan II also paves the way for graduate study. In lieu of choosing a major/concentration leading to specialized knowledge and skills, students choose to become business generalists, familiar with many aspects of international business and qualified for entry-level opportunities in business areas.

Eligible students receive general credit for 83 semester-credit hours for their qualifying credential and must meet the following additional course requirements for graduation.

## Program Outline
Each lettered group in the following outline represents a graduation requirement. Students should seek academic advising to ensure that any specialized requirements noted in the full program have been met. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Communication Skills / 7
(a) ENGL135
(b) one of: ENGL112; ENGL216; ENGL219; ENGL227; ENGL230; SPCH275; SPCH277; SPCH279

### Humanities[19] / 6
(a) one of: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428; PHIL447; PHIL449; RELI448
(b) LAS432

### Social Sciences[19] / 6
(a) one of[20]: PSYC110; PSYC290; PSYC305; PSYC315; SOCS185; SOCS190; SOCS315; SOCS325; SOCS335; SOCS350
(b) one of[21]: LAWS310; LAWS420; POLI330; POLI410

### Personal and Professional Development / 2
(a) CARD405

### Mathematics and Natural Sciences / 8
(a) MATH221
(b) one of: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

### Business / 10
(a) all of: BIS155; MGMT303; MGMT404

### Senior Project – one option is selected / 3
(a) BUSN460
(b) all of BUSN462; BUSN463

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18 Arkansas residents enrolled as online students are not eligible for this plan.

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19 Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 12-semester-credit-hour combined requirement for Humanities and Social Sciences:
Humanities / 6
(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of: ETHC445; PHIL447; PHIL449
Social Sciences / 6
(a) one of: HUMN460SA; LAWS310; LAWS420; POLI330; POLI410; PSYC110; PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS185; SOCS190; SOCS315; SOCS325; SOCS335; SOCS350
(b) LAS432
20 Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.
21 Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

# **Management** Program

DeVry's Management program is designed to prepare graduates to join the workforce as management professionals in a wide variety of industries. Leveraging and building upon students' prior education and work experience, this bachelor's-degree-completion program enables students to develop knowledge and skills needed to adapt in a rapidly changing, dynamic and competitive global marketplace. The program offers concentrations as shown in the following program outline, as well as a flex option, which students may take in lieu of a specific concentration.

Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a concentration by the time they have earned 45 semester-credit hours toward their degree.

### Program Objectives

The program is designed to produce graduates who are able to:

- Objectively evaluate opportunities, independently determine which to explore and which to forego, and effectively communicate conclusions and recommendations.
- Analyze, design and implement solutions to business problems that align processes and supporting technologies to the capabilities of a workforce and organizational objectives.
- Demonstrate systems thinking and resource management skills that affect organizational performance.
- Apply leadership competencies and team-building skills that contribute to a collaborative environment.
- Distinguish ethical factors critical to sustaining organizational culture.

### Program Details

**Degree:** Bachelor of Science in Management

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 122

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

*Note: Special requirements apply to those who wish to be admitted to the BSM program (see* Additional Admission Requirements for Management and Technical Management Program Applicants*).*

*Note: Credits and degrees earned from this institution do not automatically qualify the holder to participate in professional licensing exams to practice certain professions. Persons interested in practicing a regulated profession must contact the appropriate state regulatory agency for their field of interest.*

**For comprehensive consumer information, visit devry.edu/bm**

### Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

**Course Area / Minimum Credit Hours**

### General Education / 40

Of the 40 required hours, a minimum of six semester-credit hours must be successfully completed in each of the following disciplines: Communication Skills (ENGL and SPCH courses), Humanities[1] (ETHC, HIST, HUMN, LAS, LTRE, PHIL and RELI courses), Mathematics and Natural Sciences (BIOS, CHEM, MATH, PHYS and SCI courses), and Social Sciences[1] (ECON, LAWS, POLI, PSYC and SOCS courses). Students should check with their advisor to ensure that specific courses will apply to their General Education requirements.

(a) all of: CARD405; ECON312; ENGL112; ENGL135; LAS432; MATH114; MATH221
(b) selection by concentration:
- *Sustainability Management students:* SCI204
- *All other students – one of:* BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230
(c) The remaining 12 semester-credit hours[2,3,4,5,6] are selected from courses with prefixes BIOS, CHEM, COLL, ECON, ENGL, ETHC, HIST, HUMN, LAWS, LTRE, MATH, PHIL, PHYS, POLI, PSYC, RELI, SCI, SOCS and SPCH.

### Technology / 16
(a) all of: BIS155; BIS245; COMP100; COMP129; SEC310

### Business and Management / 25
(a) all of: ACCT212; BUSN115; BUSN278; BUSN319; MGMT303; MGMT404; MGMT410

### Senior Project – one option is selected / 3
(a) BUSN460
(b) all of: BUSN462; BUSN463

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1 *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 12-semester-credit-hour combined requirement for Humanities and Social Sciences: Humanities / 6*
 *(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428*
 *(b) one of: ETHC445; PHIL447; PHIL449*
 *Social Sciences / 6*
 *(a) all of: ECON312; LAS432*
 *For these students, the remaining 28 credit hours in general education are taken as follows:*
 *(a) all of: CARD405; ENGL112; ENGL135; MATH114; MATH221*
 *(b) one of: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230*
 *(c) six semester-credit hours from courses with prefixes BIOS, CHEM, COLL, ECON, ENGL, ETHC, HIST, HUMN, LAWS, LTRE, MATH, PHIL, PHYS, POLI, PSYC, RELI, SCI, SOCS and SPCH.*
2 *Arkansas residents enrolled as online students must take the following to meet this requirement:*
 *(a) all of: ETHC232; HIST225; HUMN303*
 *(b) one of: PSYC110; SOCS185; SOCS190*
3 *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, may not apply MATH103 to graduation requirements.*
4 *Students enrolled at a Nevada location must take POLI332 as part of this requirement.*
5 *Ohio residents enrolled as online students, and students enrolled at an Ohio location, must take an additional course from those with prefixes BIOS, CHEM, PHYS or SCI as part of General Education requirement (b).*
6 *Students enrolled as online students are assigned COLL148 or PSYC307 as part of this requirement.*

# Management Program (continued)

### Electives[7,8] / 12

Through academic advising, electives are chosen from courses substantially different from those used to meet any other graduation requirement. They may be selected from courses listed in this catalog, provided prerequisites are satisfied. Electives may be used to satisfy prerequisites for courses in other course areas, to meet specialized requirements or to pursue a special interest. Qualifying prior college coursework not meeting other program requirements may be applied toward the elective hours. Requirements by concentration are:

- *General Management students:* ACCT301
- *Technical Communication students:* ENGL227, which may be applied toward the Electives or General Education course area

### Concentration – one option is selected / 27

For the advanced course option shown in selected concentrations, a minimum of three semester-credit hours is selected from courses offered in any of this program's concentrations and for which course prerequisites have been satisfied.

As part of the advanced course option, students may choose to complete both INTP491 and INTP492. Students choosing to complete INTP491 and INTP492 must receive approval to do so from the appropriate academic administrator.

#### Accounting[9]
(a) all of: ACCT304; ACCT305; ACCT312; ACCT444; ACCT451
(b) one of: ACCT324; ACCT429
(c) one of: ACCT405; advanced course option

#### Business Information Systems
(a) all of: BIS261; BIS311; BIS325; BIS345; BIS360; BIS445; BIS450

#### Business Intelligence and Analytics Management
(a) all of: BIAM300; BIAM400; BIAM410; BIAM420; BUSN350; GSCM206; GSCM209

#### Finance
(a) all of: ACCT304; BUSN379; FIN364; FIN382; advanced course option
(b) two of: ACCT429; FIN351; FIN385

#### General Management
(a) all of: BUSN258; BUSN412; BUSN420; MGMT340; MGMT408
(b) two of: BUSN369; ECOM340; MKTG425

#### Global Supply Chain Management
(a) all of: GSCM206; GSCM209; GSCM326; GSCM330; GSCM434; GSCM440; GSCM460

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#### Health Services Management
(a) all of: HSM310; HSM320; HSM330; HSM340; HSM410; HSM420
(b) one of: HSM430; advanced course option

#### Hospitality Management
(a) all of: HOSP310; HOSP320; HOSP330; HOSP410; HOSP420; HOSP450
(b) one of: HOSP440; advanced course option

#### Human Resource Management
(a) all of: HRM320; HRM330; HRM340; HRM410; HRM420; HRM430; advanced course option

#### Project Management
(a) all of: ACCT434; GSCM326; MGMT340; PROJ410; PROJ420; PROJ430
(b) one of: PROJ330; advanced course option

#### Sales and Marketing
(a) all of: MKTG310; MKTG320; MKTG410; MKTG425; MKTG430; SBE330
(b) one of: ECOM340; advanced course option

#### Security Management
(a) all of: SEC280; SEC320; SEC330; SEC410; SEC415; SEC420; advanced course option

#### Small Business Management and Entrepreneurship
(a) all of: BUSN258; SBE310; SBE330; SBE420; SBE430; SBE440; advanced course option

#### Sustainability Management
(a) all of: ECON410; MKTG440; SOCS325; SUST310; SUST320; SUST410
(b) one of: BUSN369; BUSN412; BUSN420; GSCM326; SBE330

#### Technical Communication
(a) all of: TC220; TC310; TC320; TC360; TC420; TC440
(b) one of: TC160; TC430; TC450

#### Flex Option
(a) The Flex Option supplements the program's solid base in management fundamentals and general education by providing in-depth skills in a specific area of interest. Students select coursework totaling at least 27 semester-credit hours, 24 of which must be in upper-division coursework (DeVry courses numbered 300–499). Students may select courses from any other Management program concentration, provided prerequisites are met. Unless listed as part of a concentration, prerequisite courses may not be applied to the 27 credit hours required for the Flex Option. Approved sequences comprise a series of inter-related courses and are determined by students in consultation with the program administrator. Students may register for approved courses only. They may include selected DeVry coursework, qualifying coursework from a prior college experience or a combination of both.

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7 *Arkansas residents enrolled as online students must take one additional course from group (b) in the General Education course area as part of this requirement.*

8 *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, may not apply MATH103 to graduation requirements.*

9 *Students interested in sitting for the CPA exam in Texas should consider completing ACCT349, ACCT440 and MGMT330 as elective course options. Successful completion of topics presented in these courses is required to sit for the CPA exam in Texas.*

# **Technical Management** Program

To meet the needs of adult students, DeVry developed its bachelor's-degree-completion program in Technical Management. The curriculum helps students with qualifying prior college experience add an important credential – a bachelor's degree – to their resumé. The program also offers technical specialties to facilitate students' advancement to supervisory or management positions in their chosen field of specialization. Specialties are shown in the following program outline, as is a general technical option, which students may take in lieu of a specific technical specialty.

The criminal justice specialty is designed for students with at least one year of professional experience in law enforcement, criminal justice or a closely related field.

To enroll in any health information management specialty courses, students must hold a DeVry-recognized associate degree in health information technology or an active RHIT certification.

Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a technical specialty by the time they have earned 30 semester-credit hours toward their degree.

*Note: Admission to the Technical Management program does not require prior college credit for those enrolled at a New Jersey location.*

### Program Objectives

The program is designed to produce graduates who are able to:

- Effectively use applied research and problem-solving skills.
- Communicate effectively both orally and in writing.
- Work effectively within a team environment.
- Demonstrate supervisory and management skills within a specialty and across business functions.
- Apply critical thinking skills to identify and evaluate existing processes, assess needs and structure business approaches.

### Individual Plans of Study

Degree requirements are specified in an individual plan of study developed with each student through academic advising. At least 42 semester-credit hours must be earned in upper-division coursework (DeVry courses numbered 300–499).

### Program Details

**Degree:** Bachelor of Science in Technical Management (in New York, Bachelor of Professional Studies in Technical Management; in Ohio, Bachelor of Technical Management)

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 122

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

*Note: All students should see General Notes at the beginning of Colleges & Programs of Study.*

*Note: Except in New Jersey, special requirements apply to those who wish to be admitted to the BSTM program (see Additional Admission Requirements for Management and Technical Management Program Applicants).*

*Note: Credits and degrees earned from this institution do not automatically qualify the holder to participate in professional licensing exams to practice certain professions. Persons interested in practicing a regulated profession must contact the appropriate state regulatory agency for their field of interest.*

**For comprehensive consumer information, visit devry.edu/btm**

# Technical Management Program (continued)

**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

**Course Area / Minimum Credit Hours**

### General Education / 40

Of the 40 required hours, a minimum of six semester-credit hours must be successfully completed in each of the following disciplines: Communication Skills (ENGL and SPCH courses), Humanities[1] (ETHC, HIST, HUMN, LAS, LTRE, PHIL and RELI courses), Mathematics and Natural Sciences (BIOS, CHEM, MATH, PHYS and SCI courses) and Social Sciences[1] (ECON, LAWS, POLI, PSYC and SOCS courses). Students should check with their advisor to ensure that specific courses will apply to their General Education requirements.

(a) all of: CARD405[2]; ENGL135; LAS432; MATH114; MATH221

(b) selection by technical specialty:
  - *Sustainability Management students:* SCI204
  - *All other students – one of[3]:* BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

(c) The remaining 19 semester-credit hours[4,5,6,7,8,9] are selected from courses with prefixes BIOS, CHEM, COLL, ECON, ENGL, ETHC, HIST, HUMN, LAWS, LTRE, MATH, PHIL, PHYS, POLI, PSYC, RELI, SCI, SOCS and SPCH.

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1  *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 12-semester-credit-hour combined requirement for Humanities and Social Sciences:*
   *Humanities / 6*
   *(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428*
   *(b) one of: ETHC445; PHIL447; PHIL449*
   *Social Sciences / 6*
   *(a) one of: LAWS310; LAWS420; POLI330; POLI410; PSYC110; PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS185; SOCS190; SOCS315; SOCS325; SOCS335; SOCS350*
   *(b) LAS432*
   *For these students the remaining 28 credit hours in general education are taken as follows:*
   *(a) all of: CARD405; ENGL135; MATH114; MATH221*
   *(b) one of: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230*
   *(c) 10 semester-credit hours from courses with prefixes BIOS, CHEM, COLL, ECON, ENGL, ETHC, HIST, HUMN, LAWS, LTRE, MATH, PHIL, PHYS, POLI, PSYC, RELI, SCI, SOCS and SPCH*
2  *For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.*
3  *Students enrolled at a New Jersey location may take PHYS204 or SCI200 to fulfill this requirement.*
4  *Arkansas residents enrolled as online students must take the following to meet this requirement:*
   *(a) two of: PSYC110; PSYC290; SOCS185; SOCS190*
   *(b) ENGL112*
   *(c) all of: ETHC232; HIST225; HUMN303*
5  *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, may not apply MATH103 to graduation requirements.*
6  *Students enrolled at a Nevada location must take POLI332 as part of this requirement.*
7  *Students enrolled as online students are assigned COLL148 or PSYC307 as part of this requirement.*
8  *All students selecting the Health Information Management specialty must take ETHC445 as part of this requirement.*
9  *Students enrolled at a New Jersey location must take COLL148. Credit hours awarded for the course result in institutional credit only.*

**Course Area / Minimum Credit Hours**

### Business, Management and Technology[10] / 27

(a) all of: BIS155; BUSN115; COMP100; MGMT303; MGMT404

(b) one of: BUSN369; BUSN412; BUSN420; MGMT340; MGMT410

(c) eight semester-credit hours are selected from any of the following courses that have not been applied to another requirement: ACCT212; ACCT346; BIS245; BUSN319; BUSN379; additional courses from requirement (b); courses in Technical Specialty Option 2, or their prerequisites (except ENGL227 and HIT141).

### Senior Project – one option is selected / 3

(a) BUSN460

(b) all of: BUSN462; BUSN463

### Electives[11,12,13] / 25

(a) Through academic advising, electives are chosen from courses substantially different from those used to meet any other graduation requirement. They may be selected from courses listed in this catalog, provided prerequisites are satisfied. Electives may be used to satisfy prerequisites for courses in other course areas, to meet specialized requirements or to pursue a special interest. Qualifying prior college coursework not meeting other program requirements may be applied toward the elective hours.

### Technical Specialty – one option is selected / 27

The technical specialty consists of a sequence of interrelated courses focusing on a particular career area. With approval from their student support advisor or academic advisor, students choose one of the following options to meet this requirement. If prerequisites for required courses have not been fulfilled, they are added to individual plans of study and become part of students' graduation requirements.

### Option 1 – General Technical Option

(a) DeVry coursework, qualifying coursework from a prior college experience, or a combination of DeVry and qualifying prior coursework may be selected to satisfy this requirement.

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10 *All students selecting the Health Information Management specialty must complete requirement (a); MGMT340 and MGMT410 from requirement (b); and four semester-credit hours from requirement (c).*
11 *Arkansas residents enrolled as online students must take an additional course from group (b) in the General Education course area as part of this requirement.*
12 *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, may not apply MATH103 to graduation requirements.*
13 *Students enrolled at a New Jersey location must take 55 semester-credit hours of general education coursework. Fifteen semester-credit hours of general education coursework may be applied to the Electives course area.*

# Technical Management Program (continued)

| **Course Area / Minimum Credit Hours** |
|---|

### Option 2 – Business Administration Specialty[14]

Students select one of the following specialties, many of which have one or two prerequisite courses that are not specifically required in another course area. Students should plan carefully to incorporate each prerequisite into an appropriate course area.

For the advanced course option shown in selected business administration specialties, a minimum of three semester-credit hours is selected from courses offered in any business administration specialty and for which course prerequisites have been satisfied. As part of the advanced course option, students may choose to complete both INTP491 and INTP492. Students choosing to complete INTP491 and INTP492 must receive approval to do so from the appropriate academic administrator.

#### Accounting[15]
(a) all of: ACCT304; ACCT305; ACCT312; ACCT444; ACCT451
(b) one of: ACCT324; ACCT429
(c) one of: ACCT405; advanced course option

#### Business Information Systems
(a) all of: BIS261; BIS311; BIS325; BIS345; BIS360; BIS445; BIS450

#### Business Intelligence and Analytics Management
(a) all of: BIAM300; BIAM400; BIAM410; BIAM420; BUSN350; GSCM206; GSCM209

#### Finance
(a) all of: ACCT304; BUSN278; FIN382; advanced course option
(b) three of: ACCT429; FIN351; FIN364; FIN385

#### Global Supply Chain Management
(a) all of: GSCM206; GSCM209; GSCM326; GSCM330; GSCM434; GSCM440; GSCM460

#### Health Services Management
(a) all of: HSM310; HSM320; HSM330; HSM340; HSM410; HSM420
(b) one of: HSM430; advanced course option

#### Hospitality Management
(a) all of: HOSP310; HOSP320; HOSP330; HOSP410; HOSP420; HOSP450
(b) one of: HOSP440; advanced course option

| **Course Area / Minimum Credit Hours** |
|---|

#### Human Resource Management
(a) all of: HRM320; HRM340; HRM410; HRM420; HRM430; MGMT410
(b) one of: HRM330; advanced course option

#### Project Management
(a) all of: ACCT434; GSCM326; MGMT340; PROJ410; PROJ420; PROJ430
(b) one of: PROJ330; advanced course option

#### Sales and Marketing
(a) all of: MKTG310; MKTG320; MKTG410; MKTG425; MKTG430; SBE330
(b) one of: ECOM340; advanced course option

#### Security Management
(a) all of: SEC310; SEC320; SEC330; SEC410; SEC415; SEC420; advanced course option

#### Small Business Management and Entrepreneurship
(a) all of: BUSN258; BUSN278; SBE310; SBE430; SBE440
(b) one of: SBE330; SBE420
(c) one of: MGMT410; advanced course option

#### Sustainability Management
(a) all of: ECON410; MKTG440; SOCS325; SUST310; SUST320; SUST410
(b) one of: BUSN369; BUSN412; BUSN420; GSCM326; SBE330

#### Technical Communication
(a) all of: TC220; TC310; TC320; TC360; TC420; TC440
(b) one of: TC160; TC430; TC450

### Option 3 – Criminal Justice Specialty[16]
(a) all of: CRMJ300; CRMJ310; CRMJ315; CRMJ320; CRMJ400; CRMJ410
(b) three of: CRMJ415; CRMJ420; CRMJ425; CRMJ430; CRMJ450

### Option 4 – Health Information Management Specialty
To enroll in any Health Information Management specialty courses, students must hold either a DeVry-recognized associate degree in health information technology or an active RHIT certification.
(a) all of: HIM335; HIM355; HIM370; HIM410; HIM420; HIM435; HIM460; MATH325

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16 Michigan residents enrolled as online students, and students enrolled at a Michigan location, should note that the Michigan Commission on Law Enforcement Standards (MCOLES) requires that any applicant for a certification in law enforcement for the State of Michigan must attend a state-certified MCOLES police academy. DeVry University does not operate such an academy. Students are advised that entry to any MCOLES police academy is restricted by separate admission examinations, and the selection process is highly competitive. Applicants to any MCOLES police academy are expected to meet State of Michigan standards, including no felony convictions, and vision and hearing minimums. Completion of the Criminal Justice specialty does not guarantee admission to any MCOLES police academy.

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14 Students enrolled at a North Carolina location may not select this option.
15 Students interested in sitting for the CPA exam in Texas should consider completing ACCT349, ACCT440 and MGMT330 as elective course options. Successful completion of topics presented in these courses is required to sit for the CPA exam in Texas.

# College of **Engineering & Information Sciences**

DeVry University's College of Engineering & Information Sciences offers diverse degree programs focused on innovation and practical application to help students begin their careers or prepare for professional positions with greater responsibility and reward. Programs and courses – offered onsite and online days, evenings and weekends – include intensive lab assignments employing the latest equipment and technologies, are taught by faculty with real-world experience, and provide individual and team-based learning experiences.

The following pages provide details on undergraduate programs offered through the College of Engineering & Information Sciences. Further information on graduate degree programs and offerings available through the College is available via www.devry.edu.

## ENGINEERING & INFORMATION SCIENCES PROGRAMS

### *Associate* degree

- Electronics & Computer Technology
- Network Systems Administration

### *Bachelor's* degree

- Biomedical Engineering Technology
- Computer Engineering Technology
- Computer Information Systems
- Electronics Engineering Technology
- Engineering Technology – Computers
- Engineering Technology – Electronics
- Game & Simulation Programming
- Network & Communications Management

### *Master's* degree

- Electrical Engineering
- Information Systems Management
- Network & Communications Management
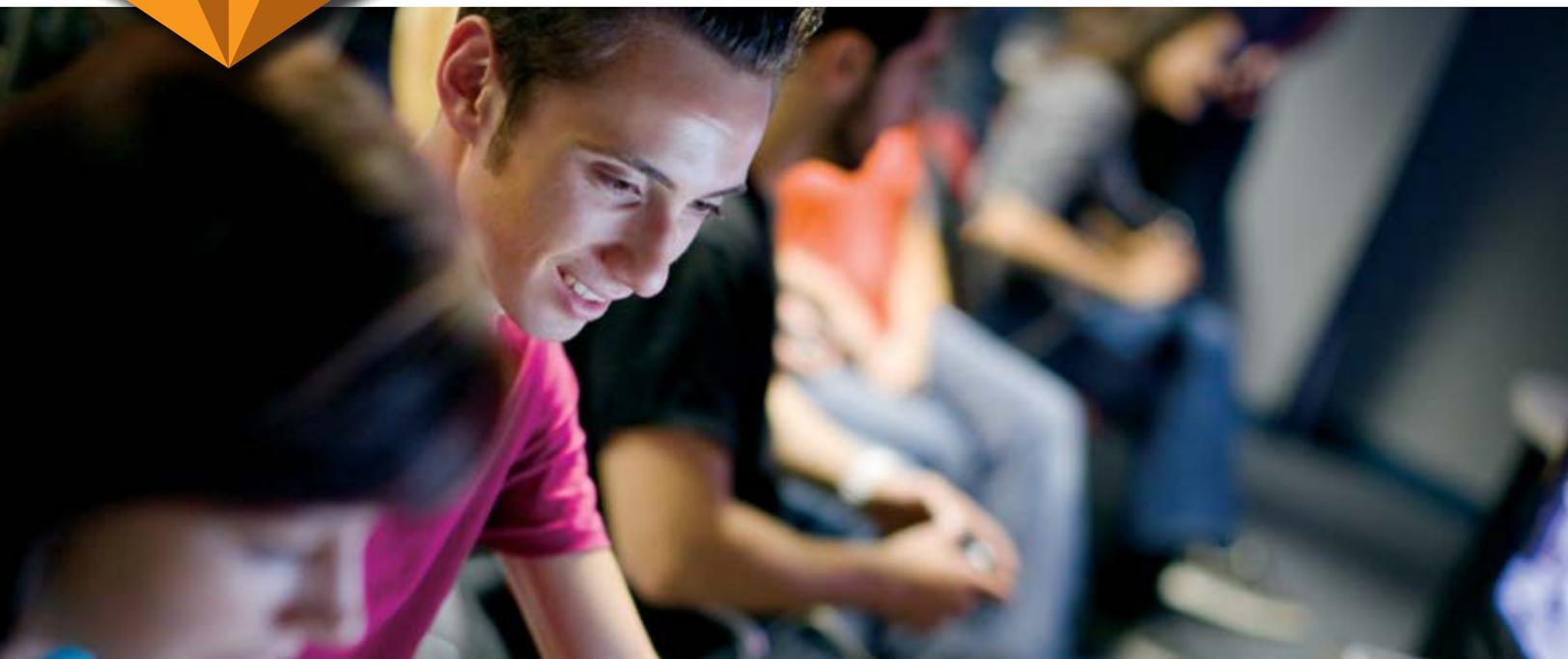
# Electronics & Computer Technology Program

As the electronic systems and equipment that power our personal and professional lives become more pervasive and integral to our existence, expertise of electronics and computer technologists is increasingly vital. To this end, DeVry based its Electronics & Computer Technology program on fundamentals of the technology driving today's systems, including telecommunications, networks, wireless, computers, controls and instrumentation. Graduates have a broad knowledge base that qualifies them for challenging career-entry positions in the dynamic electronics and computer fields.

*Note: To complete their program, ECT students must meet requirements outlined in* Electronics and Engineering Technology Programs – General Course Requirements.

## Program Objectives

The program is designed to produce graduates who are able to:

- Apply knowledge of analog and digital electronics to describe, utilize, analyze and troubleshoot electronic systems.
- Construct and configure working prototypes of pre-designed systems that combine hardware and software.
- Conduct experiments with electronics and software systems, employing appropriate test equipment to evaluate performance and determine needed repairs.
- Communicate effectively both orally and in writing.
- Work effectively in a team environment and display good customer service skills.
- Use applied research and problem-solving skills to enhance learning at DeVry and throughout their careers.

## Program Details

**Degree:** Associate of Applied Science in Electronics and Computer Technology (in Florida, Associate of Science in Electronics and Computer Technology; in Minnesota, New Jersey, New York and Pennsylvania, Associate in Applied Science in Electronics and Computer Technology)

**Semesters:** 5 full time

**Minimum credit hours required for graduation:** 71 [1,2,3]

**Normal time to complete:** 2.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

1 *67 for Minnesota residents enrolled as online students and for students enrolled at a Minnesota location*
2 *66 for students enrolled at a New Jersey location*
3 *72 for Ohio residents enrolled as online students and for students enrolled at an Ohio location*

**For comprehensive consumer information, visit devry.edu/aect**

## Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

| Course Area / Minimum Credit Hours |
| --- |

**Communication Skills / 7 [4]**
(a) all of: ENGL112 [5]; ENGL206

**Humanities / 3**
(a) ETHC232

**Social Sciences / 3**
(a) one of [6]: PSYC110; SOCS185; SOCS190

**Personal and Professional Development / 5 [7]**
(a) all of: CARD205; COLL148

**Mathematics and Natural Sciences / 8 [8]**
(a) all of: MATH103 [9]; PHYS204

**Electrical and Electronic Circuits and Systems / 14**
(a) all of: ECT122; ECT125; ECT246; ECT253; ECT295L

**Digital, Microprocessor and Computer Systems / 15**
(a) all of: COMP129; ECT109; ECT114
(b) one of: DHTI202; ECT274

**Electronic Communications / 4**
(a) ECT263

**Control Systems / 4**
(a) ECT284

**Computer Networks / 6**
(a) one of: NETW202; NETW203
(b) one of: NETW204; NETW205

**Technical Alternate [10, 11] / 3 [12]**
(a) one of: DHTI204; ECT264; ECT266; ECT270; NETW206; NETW207

4 *6 for students enrolled at a New Jersey location*
5 *Students enrolled at a New Jersey location take ENGL108 in lieu of this course.*
6 *Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.*
7 *For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.*
8 *four for Minnesota residents enrolled as online students and for students enrolled at a Minnesota location*
9 *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, do not take MATH103. To graduate, these students must demonstrate mathematics competency at the level of DeVry's Beginning Algebra course through the placement process or by successfully completing MATH062.*
10 *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take one of the following in lieu of this requirement: BIOS105, BIOS135, BIOS140, CHEM120, ECON312, ENGL135, LAWS310, MATH114, POLI330, PSYC290, PSYC305, PSYC315, SCI204, SCI214, SCI224, SCI228, SCI230, SOCS315, SOCS325, SOCS335, SOCS350, SPCH275, SPCH277, SPCH279.*
11 *Ohio residents enrolled as online students, and students enrolled at an Ohio location, must take one of the following in lieu of this requirement: BIOS105, BIOS140, ENGL135, ENGL216, ENGL219, ENGL227, MATH114, SCI228.*
12 *four for Ohio residents enrolled as online students and for students enrolled at an Ohio location*

# Network Systems Administration Program

The Network Systems Administration program provides students with a background in network systems administration as applied to practical business situations. The program addresses install-ing, configuring, securing and administering network systems comprising users, shared resources and network elements, such as routers, in local and Internet-based environments.

The program offers tracks as shown in the following program outline. Students must choose an area of specialization before they begin the program.

**Program Objectives**
The program is designed to produce graduates who are able to:

- Establish and administer a network by installing, configuring, securing and testing multiple network operating systems and selected hardware such as network servers and routers.
- Communicate effectively both orally and in writing.
- Demonstrate teamwork skills.
- Apply research and problem-solving skills.

**Program Details**
**Degree:** Associate of Applied Science in Network Systems Administration (in Florida, Associate of Science in Network Systems Administration; in Minnesota, New York and Pennsylvania, Associate in Applied Science in Network Systems Administration)

**Semesters:** 5 full time

**Minimum credit hours required for graduation:** 67[1,2]

**Normal time to complete:** 2.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should con-tact their student support advisor or academic advisor for more information.

**Program Outline**
Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

| Course Area / Minimum Credit Hours |
|---|

**Communication Skills / 11[3]**
(a) all of: ENGL112[4]; ENGL135
(b) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 3**
(a) ETHC232

**Social Sciences / 3**
(a) one of[5]: PSYC110; SOCS185; SOCS190

**Personal and Professional Development / 5[6]**
(a) all of: CARD205; COLL148

**Mathematics[7] / 8[8]**
(a) all of: MATH103[9]; MATH114

**Business / 3**
(a) BUSN115

**Computing / 12**
(a) all of: CEIS100; COMP129; COMP230; SEC280

**Network Operating Systems and Technologies / 11**
(a) all of: NETW230; NETW240; NETW250

**Track – one option is selected / 12**

*Cisco Networking Fundamentals*
(a) all of: NETW203; NETW205; NETW207; NETW209

*Networking Fundamentals*
(a) all of: NETW202; NETW204; NETW206; NETW208

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3 10 for students enrolled at a New Jersey location
4 Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
5 Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.
6 For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.
7 Students enrolled at a New Jersey location take the following to meet this requirement:
Mathematics / 8
(a) all of: MATH103; MATH114
Natural Sciences / 3
(a) one of: BIOS105; BIOS135; CHEM120; PHYS204; SCI200; SCI224
8 four for Minnesota residents enrolled as online students and for students enrolled at a Minnesota location
9 Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, do not take MATH103. To graduate, these students must demonstrate mathematics competency at the level of DeVry's Beginning Algebra course through the placement process or by successfully complet-ing MATH062.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

1 63 for Minnesota residents enrolled as online students and for students enrolled at a Minnesota location
2 65 for students enrolled at a New Jersey location

**For comprehensive consumer information, visit devry.edu/ansa**

# Biomedical Engineering Technology Program

By providing a firm foundation in biological sciences as well as core competencies required of electronics engineering technologists, DeVry's Biomedical Engineering Technology program prepares graduates to enter the workforce as technical professionals with competencies in bioengineering processes and tools. BMET graduates play essential roles on the biomedical team, typically ranging from developing and maintaining healthcare equipment to designing and implementing hardware and software solutions to biological or medical problems. The curriculum is applications-oriented in the areas of physiological bioinstrumentation and informatics, providing knowledge and skills graduates need to function effectively in multidisciplinary teams, adapt to changes in technical environments throughout their careers and progress in their professional responsibilities.

*Note: To complete their program, BMET students must meet requirements outlined in* Electronics and Engineering Technology – General Course Requirements *and may also have to satisfy requirements outlined in* Healthcare Site Requirements.

### Program Educational Objectives

Program educational objectives are the skills and abilities graduates are expected to demonstrate during the first few years of employment. BMET program educational objectives include:

- Finding employment in a biomedical-technology-related position with appropriate title and compensation.
- Achieving a successful professional career.
- Adapting to change through continuous personal and professional development.

### Student Outcomes

Student outcomes are the skills and abilities students are expected to demonstrate at graduation. Student outcomes for the BMET program include:

- An ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly defined engineering technology activities.
- An ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures and methodologies.

- An ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
- An ability to design systems, components, or processes for broadly defined engineering technology problems appropriate to program educational objectives.
- An ability to function effectively as a member or leader on a technical team.
- An ability to identify, analyze, and solve broadly defined engineering technology problems.
- An ability to communicate effectively regarding broadly defined engineering technology activities.
- An understanding of the need for and an ability to engage in self-directed continuing professional development.
- An understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity.
- A knowledge of the impact of engineering technology solutions in a societal and global context.
- A commitment to quality, timeliness, and continuous improvement.
- An appropriate level of achievement of the body of knowledge required by the Biomedical Engineering Society (BMES), as listed in the program criteria applicable to biomedical engineering technology programs contained within the ETAC of ABET *Criteria for Accrediting Engineering Technology Programs*.

### Program Details

**Degree:** Bachelor of Science in Biomedical Engineering Technology (in New York, Bachelor of Technology in Biomedical Engineering Technology)

**Semesters:** 9 full time

**Minimum credit hours required for graduation:** 139[1]

**Normal time to complete:** 4.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

***For comprehensive consumer information, visit devry.edu/bbet***

1   *133 for students enrolled at a New Jersey location*

# Biomedical Engineering Technology Program (continued)

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

## Course Area[2] / Minimum Credit Hours

**Communication Skills / 15[3]**
(a) all of: ENGL112[4]; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 9**
(a) one of: HUMN303; HUMN451; LTRE421;
LTRE422; LTRE424; LTRE427; LTRE428
(b) one of: ETHC445; HIST405; HIST410; HIST412;
HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences / 6**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of: ECON312; LAWS310; LAWS420; POLI330;
POLI410; PSYC290; PSYC305; PSYC315; SOCS315;
SOCS325; SOCS335; SOCS350

## Course Area[1] / Minimum Credit Hours

**Personal and Professional Development / 5[5]**
(a) all of: CARD405; COLL148

**Mathematics and Analytical Methods / 15**
(a) all of: ECET345; MATH190; MATH260; MATH270

**Natural Sciences / 16**
(a) all of: BIOS135; BIOS195; PHYS310; PHYS320

**Electronic Circuits and Devices / 20**
(a) all of: CEIS100; ECET105; ECET110;
ECET210; ECET220; ECET350

**Digital Circuits and Microprocessors / 12**
(a) all of: ECET230; ECET330; ECET340

**Networks / 4**
(a) ECET375

**Computer Programming / 12**
(a) all of: COMP122; COMP220; COMP274

**Biomedical Engineering Technology / 19**
(a) all of: BMET313; BMET323; BMET433;
BMET436; BMET453; BMET454

**Senior Project Design and Development / 5**
(a) all of: ECET390; ECET492L; ECET493L; ECET494L

**Technology Integration / 2**
(a) all of: ECET299; ECET497

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2  *Most courses with the designator ECET may not be applied
to this program if the courses are taken online.*
3  *14 for students enrolled at a New Jersey location*
4  *Students enrolled at a New Jersey location take ENGL108 in lieu of this course.*

5  *For students enrolled at a New Jersey location, credit hours awarded for
required Personal and Professional Development courses result in institutional
credit only.*

# Computer Engineering Technology Program

Computer Engineering Technology program graduates are prepared to join the workforce as technical professionals in a variety of industries, including information technology. CET graduates take an applications-oriented approach to designing and implementing software, interfaces that link computers to other physical systems, and computer systems or other digital subsystems. They design software systems; create code and protocols; test and evaluate hardware and software products and processes; and diagnose and solve problems. Graduates should also possess appropriate knowledge, experience and skills to function effectively in multidisciplinary teams, adapt to changes in technical environments throughout their careers and progress in their professional responsibilities.

*Note: To complete their program, CET students must meet requirements outlined in* Electronics and Engineering Technology Programs – General Course Requirements.

**Program Educational Objectives**

Program educational objectives are the skills and abilities graduates are expected to demonstrate during the first few years of employment. CET program educational objectives include:

- Finding employment in a computer-technology-related position with appropriate title and compensation.

- Achieving a successful professional career.

- Adapting to change through continuous personal and professional development.

**Student Outcomes**

Student outcomes are the skills and abilities students are expected to demonstrate at graduation. Student outcomes for the CET program include:

- An ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly defined engineering technology activities.

- An ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures and methodologies.

- An ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.

- An ability to design systems, components, or processes for broadly defined engineering technology problems appropriate to program educational objectives.

- An ability to function effectively as a member or leader on a technical team.

- An ability to identify, analyze, and solve broadly defined engineering technology problems.

- An ability to communicate effectively regarding broadly defined engineering technology activities.

- An understanding of the need for and an ability to engage in self-directed continuing professional development.

- An understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity.

- A knowledge of the impact of engineering technology solutions in a societal and global context.

- A commitment to quality, timeliness, and continuous improvement.

- An appropriate level of achievement of the body of knowledge required by the Institute of Electrical and Electronics Engineers (IEEE), as listed in the program criteria applicable to computer engineering technology programs contained within the ETAC of ABET *Criteria for Accrediting Engineering Technology Programs*.

**Program Details**

**Degree:** Bachelor of Science in Computer Engineering Technology (in New York, Bachelor of Technology in Computer Engineering Technology)

**Semesters:** 9 full time

**Minimum credit hours required for graduation:** 139

**Normal time to complete:** 4.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.
**For comprehensive consumer information, visit devry.edu/bcet**

# Computer Engineering Technology Program (continued)

**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

## Course Area[1] / Minimum Credit Hours

**Communication Skills / 15**
(a) all of: ENGL112; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 9**
(a) one of: HUMN303; HUMN451; LTRE421;
    LTRE422; LTRE424; LTRE427; LTRE428
(b) one of: ETHC445; HIST405; HIST410; HIST412;
    HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of: PSYC290; PSYC305; PSYC315; SOCS315;
    SOCS325; SOCS335; SOCS350
(c) one of: ECON312; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5**
(a) all of: CARD405; COLL148

**Mathematics, Analytical Methods and Natural Sciences / 23**
(a) all of: ECET345; MATH190; MATH260; MATH270;
    PHYS310; PHYS320

**Electronic Circuits and Devices / 12**
(a) all of: ECET110; ECET210; ECET220

**Digital Circuits and Microprocessors / 20**
(a) all of: CEIS100; ECET105; ECET230; ECET330;
    ECET340; ECET365

**Signal Processing / 4**
(a) ECET350

## Course Area[1] / Minimum Credit Hours

**Networks / 4**
(a) ECET375

**Software Design / 12**
(a) all of: ECET360; ECET370; ECET450

**Computer Programming / 12**
(a) all of: COMP122; COMP220; COMP274

**Senior Project Design and Development / 5**
(a) all of: ECET390; ECET492L; ECET493L; ECET494L

**Technology Integration / 2**
(a) all of: ECET299; ECET497

**Technical Alternates[2] / 8**
(a) two of: ECET420; ECET430; ECET460; ECET465;
    ECET490; ECET495; MATH450[2]; MATH451[2]

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1  Most courses with the designator ECET may not be applied
   to this program if the courses are taken online.

2  All students interested in pursuing DeVry's Electrical Engineering master's
   degree program should seek academic advising before selecting their technical
   alternates; courses denoted with a superscript two (²) are recommended for
   such students.

# Computer Information Systems Program

Computer Information Systems program graduates are prepared to successfully join the workforce as technical and management professionals in a variety of industries. CIS graduates play essential roles on the business team, typically designing and implementing hardware and software solutions to business problems. They are also expected to possess knowledge, experience and skills that will enable them to adapt to change in this dynamic field through a lifelong learning process.

The program offers tracks as shown in the following program outline, as well as a flex option, which students may take in lieu of a specific track. Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a track or the flex option by the time they have earned 60 semester-credit hours toward their degree.

*Note: The Cyber Security Programming track includes material which is covered by the Systems Security Certified Practitioner (SSCP®) exam. Detailed information on qualifications for the SSCP exam is available at* www.isc2.org/sscp.

## Program Objectives

The program is designed to produce graduates who are able to:

- Analyze, design and implement solutions to business problems.
- Create and test computer information systems solutions for business problems.
- Demonstrate project management skills.
- Communicate effectively both orally and in writing.
- Apply information literacy and problem-solving skills that support lifelong personal and professional development.

DeVry accomplishes these goals by:

- Providing a sound foundation in structured, event-driven, object-oriented and web programming, as well as systems analysis and design, database design and management, and networking across multiple platforms.
- Incorporating a strong applications-oriented component into each technical course, which reinforces learning of fundamental concepts, principles and theory through use of computer hardware and software for problem-solving.
- Integrating general competencies such as applied research, written and oral communication, critical thinking, problem-solving and team skills in technical and nontechnical courses.

## Program Details

**Degree:** Bachelor of Science in Computer Information Systems (in New York, Bachelor of Professional Studies in Computer Information Systems)

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 124[1,2]

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

*Note: Students enrolled at a New Jersey location must take an additional six semester-credit hours of general education coursework from among the following course areas: communication skills, humanities, social sciences, mathematics and natural sciences. Courses selected in humanities or social sciences should be upper-division coursework (DeVry courses numbered 300–499).*

*Note: Credits and degrees earned from this institution do not automatically qualify the holder to participate in professional certification or licensure exams. DeVry does not guarantee graduates will successfully pass such exams.*

1   128 for Arkansas residents enrolled as online students
2   125 for students enrolled at a New Jersey location

**For comprehensive consumer information, visit devry.edu/bcis**

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

### Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

| Course Area / Minimum Credit Hours |
|---|

**Communication Skills / 15[3]**
(a) all of: ENGL112[4]; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities[5] / 9**
(a) one of: HUMN303[6]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[7]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences[5] / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[8]: PSYC290[6]; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of[9,10]: ECON312; LAWS310; LAWS420; POLI330; POLI410

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3   14 for students enrolled at a New Jersey location
4   Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
5   Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:
    Humanities / 6
    (a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
    (b) one of: ETHC445; PHIL447; PHIL449
    Social Sciences / 12
    (a) one of: PSYC110; SOCS185; SOCS190
    (b) one of: PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
    (c) one of: ECON312; HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448
    (d) LAS432
6   Arkansas residents enrolled as online students must take this course.
7   Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.
8   Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.
9   Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.
10  Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

# Computer Information Systems Program (continued)

| Course Area / Minimum Credit Hours |
| --- |

**Personal and Professional Development / 5[11]**
(a) all of: CARD405; COLL148

**Mathematics and Natural Sciences / 12[12,13]**
(a) all of: MATH114; MATH221
(b) one of[14,15]: BIOS105[16]; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

**Business / 11**
(a) all of: BUSN115; MGMT404
(b) selection by track:
- *Cyber Security Programming students:* CEIS210
- *All other students:* ACCT301

**Systems Concepts – Varies by selection**
(a) all of: CEIS100; CIS115; SEC280
(b) selection by track:
- *Cyber Security Programming students (15) – all of:* GSP215; NETW202 or NETW203
- *All other students (16) – all of:* CIS206; CIS246

**Programming / 12**
There are several sets of CIS courses, ending in A, B or C, that differ principally in the language/platform used to explore course concepts. Each course in the set meets listed graduation requirements. However, students must also check courses later in the program, including those in the desired track, to ensure later courses' specific prerequisites will be satisfied.

(a) selection by track:
- *Cyber Security Programming students – all of:* GSP115; GSP125; NETW240
- *All other students:*
  (i) one of: CIS170A; CIS170B; CIS170C
  (ii) one of: CIS247A; CIS247B; CIS247C
  (iii) one of: CIS355A; CIS355B[17]

**Web Development – Varies by selection**
(a) selection by track:
- *Cyber Security Programming students (6) – all of:* SEC311; SEC321
- *All other students (8):*
  (i) one of: CIS363A; CIS363B[17]
  (ii) one of: CIS407A; CIS407B[17]

**Systems Development / 10**
(a) all of: CIS336
(b) selection by track:
- Cyber Security Programming students – all of: NETW204 or NETW205; NETW206 or NETW207
- *All other students – all of:* CIS321; CIS339

| Course Area / Minimum Credit Hours |
| --- |

**Senior Project – one option is selected / 3**
(a) CIS470
(b) all of: CIS474; CIS477

**Track – one option is selected / Varies by selection**

*Computer Forensics / 18*
(a) all of: CCSI330; CCSI360; CCSI410; CCSI460; SEC440

*Cyber Security Programming / 19*
(a) all of: NETW411; SEC360; SEC370; SEC440; SEC450

*Database Management / 16*
(a) all of: DBM405A; DBM438; DBM449; SEC360

*Enterprise Computing / 16*
(a) all of: DBM405B; ESYS306; ESYS410; ESYS430

*Health Information Systems / 18*
(a) one of: DBM405A; DBM405B
(b) all of: HIS410; HIS420; SAI460; SEC360

*Information Systems Security / 16*
(a) all of: SEC340; SEC360; SEC370; SEC440

*Systems Analysis and Integration / 16*
(a) all of: SAI430; SAI440; SAI460; SEC340

*Web Development and Administration / 16*
(a) all of: SEC370; WEB320; WEB375; WEB460

*Web Game Programming / 16*
(a) all of: WBG340; WBG370; WBG410; WBG450

*Business and Management / 16*
(a) Students select upper-division coursework (DeVry courses numbered 300–499) totaling at least 16 semester-credit hours from the Business Administration program's business core or major/concentration areas. Business Information Systems specialization and senior project courses are excluded. Students must satisfy all prerequisites for selected courses; prerequisite courses are not applicable to track completion requirements. Additionally, students must receive approval from the appropriate academic administrator to enroll in courses they select.

*Flex Option / 16*
(a) Students select upper-division coursework (DeVry courses numbered 300–499) totaling at least 16 semester-credit hours from bachelor's degree programs in any College except the College of Business & Management. Senior project courses are excluded. Students must satisfy all prerequisites for selected courses; prerequisite courses are not applicable to track completion requirements. Additionally, students must receive approval from the appropriate academic administrator to enroll in courses they select.

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11 For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.
12 16 for Arkansas residents enrolled as online students
13 11 for students enrolled at a New Jersey location
14 Arkansas residents enrolled as online students must take two courses from this group.
15 Students enrolled at a New Jersey location may take SCI200 to fulfill this requirement.
16 For all students choosing the Health Information Systems track, this course is strongly recommended.
17 For all students choosing the Enterprise Computing track, this course is strongly recommended.

# Electronics Engineering Technology Program

The Electronics Engineering Technology program prepares graduates to join the workforce as technical professionals in a variety of industries. EET graduates play essential roles on the engineering team, typically designing and implementing hardware and software solutions to technical problems. Graduates should also possess appropriate knowledge, experience and skills to function effectively in multidisciplinary teams, adapt to changes in technical environments throughout their careers and progress in their professional responsibilities.

The program offers an option to complete a track in Renewable Energy Engineering Technology, as shown in the following program outline. Students selecting this option must declare their intention by the time they have earned 30 semester-credit hours toward their degree.

*Note: To complete their program, EET students must meet requirements outlined in* Electronics and Engineering Technology Programs – General Course Requirements.

## Program Educational Objectives

Program educational objectives are the skills and abilities graduates are expected to demonstrate during the first few years of employment. EET program educational objectives include:

- Finding employment in an electronics-engineering-technology-related position with appropriate title and compensation.
- Achieving a successful professional career.
- Adapting to change through continuous personal and professional development.

## Student Outcomes

Student outcomes are the skills and abilities students are expected to demonstrate at graduation. Student outcomes for the EET program include:

- An ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly defined engineering technology activities.
- An ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures and methodologies.
- An ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
- An ability to design systems, components, or processes for broadly defined engineering technology problems appropriate to program educational objectives.
- An ability to function effectively as a member or leader on a technical team.
- An ability to identify, analyze, and solve broadly defined engineering technology problems.

- An ability to communicate effectively regarding broadly defined engineering technology activities.
- An understanding of the need for and an ability to engage in self-directed continuing professional development.
- An understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity.
- A knowledge of the impact of engineering technology solutions in a societal and global context.
- A commitment to quality, timeliness, and continuous improvement.
- An appropriate level of achievement of the body of knowledge required by the Institute of Electrical and Electronics Engineers (IEEE), as listed in the program criteria for electronics engineering technology programs contained within the ETAC of ABET *Criteria for Accrediting Engineering Technology Programs*.

## Program Details

**Degree:** Bachelor of Science in Electronics Engineering Technology (in New York, Bachelor of Technology in Electronics Engineering Technology)

**Semesters:** 9 full time

**Minimum credit hours required for graduation:** 139[1]

**Normal time to complete:** 4.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

**For comprehensive consumer information, visit devry.edu/beet**

1   *133 for students enrolled at a New Jersey location*

# Electronics Engineering Technology Program (continued)

## Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Course Area[2] / Minimum Credit Hours

**Communication Skills / 15[3]**
(a) all of: ENGL112[4]; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities[5] / 9**
(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences – selection by program option**

*Renewable Energy Engineering Technology students / 7*
(a) all of: ECON410; SOCS325

*All other students[5] / 9*
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of: PSYC290; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of: ECON312; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5[6]**
(a) all of: CARD405; COLL148

**Mathematics and Analytical Methods / 15**
(a) all of: ECET345; MATH190; MATH260; MATH270

**Natural Sciences – selection by program option**

*Renewable Energy Engineering Technology students / 16*
(a) all of: BIOS135; PHYS310; PHYS320; SCI204

*All other students / 8*
(a) all of: PHYS310; PHYS320

### Course Area[1] / Minimum Credit Hours

**Electronic Circuits and Devices / 12**
(a) all of: ECET110; ECET210; ECET220

**Digital Circuits and Microprocessors / 16[7]**
(a) all of[8]: CEIS100; ECET105; ECET230; ECET330; ECET340

**Signal Processing and Networks[9] / 8**
(a) all of: ECET350; ECET375

**Computer Programming / 12**
(a) all of: COMP122; COMP220; COMP274

**Senior Project Design and Development / 5**
(a) all of: ECET390; ECET492L; ECET493L; ECET494L

**Technology Integration / 2**
(a) all of: ECET299; ECET497

**Program Option – one is selected**

*Renewable Energy Engineering Technology students / 18*
(a) all of: ECET301; REET300; SUST310
(b) eight semester-credit hours from the following technical alternates: ECET495; INTP491 and INTP492; REET420; REET425

*All other students / 24[10]*
(a) all of: ECET310; ECET365; ECET402
(b) 12 semester-credit hours from the following technical alternates[11]: ECET360[11]; ECET370[11]; ECET380; ECET405; ECET410; ECET420; ECET425; ECET430; ECET460; ECET465; ECET495; INTP491 and INTP492; MATH450[11]; MATH451[11]; REET420; REET425

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2  Most courses with ECET and REET designators may not be applied to this program if the courses are taken online.
3  14 for students enrolled at a New Jersey location
4  Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
5  Students enrolled at a Minnesota location must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:
   Humanities / 6
   (a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
   (b) one of: ETHC445; PHIL447; PHIL449
   Social Sciences / 12
   (a) one of: PSYC110; SOCS185; SOCS190
   (b) one of: PSYC290; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
   (c) one of: ECON312; HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448
   (d) LAS432
6  For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.
7  20 for students enrolled at a New Jersey location
8  Students enrolled at a New Jersey location take ECET365 as part of this requirement.
9  Students enrolled at a New Jersey location take the following to meet this requirement:
   Control Systems and Signal Processing / 8
   (a) all of: ECET350; ECET402
   Communications and Networks / 8
   (a) all of: ECET310; ECET375
10 12 for students enrolled at a New Jersey location who fulfilled requirements in group (a) as part of other course areas but who must complete requirements in group (b)
11 All students interested in pursuing DeVry's Electrical Engineering master's degree program should seek academic advising before selecting their technical alternates; courses denoted with a superscript three (3) are recommended for such students.

# Engineering Technology – Computers Program

Engineering Technology – Computers program graduates are prepared to join the workforce as technical professionals in a variety of industries, including information technology. ET-C graduates take an applications-oriented approach to designing and implementing software, interfaces that link computers to other physical systems, and computer systems or other digital subsystems. They design software systems; create code and protocols; test and evaluate hardware and software products and processes; and diagnose and solve problems. Graduates should also possess appropriate knowledge, experience and skills to function effectively in multidisciplinary teams, adapt to changes in technical environments throughout their careers and progress in their professional responsibilities.

*Note: To complete their program, ET-C students must meet requirements outlined in* Electronics and Engineering Technology Programs – General Course Requirements.

### Program Educational Objectives

Program educational objectives are the skills and abilities graduates are expected to demonstrate during the first few years of employment. ET-C program educational objectives include:

- Finding employment in a computer-technology-related position with appropriate title and compensation.
- Achieving a successful professional career.
- Adapting to change through continuous personal and professional development.

### Student Outcomes

Student outcomes are the skills and abilities students are expected to demonstrate at graduation. Student outcomes for the ET-C program include:

- An ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly defined engineering technology activities.
- An ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures and methodologies.

- An ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
- An ability to design systems, components, or processes for broadly defined engineering technology problems appropriate to program educational objectives.
- An ability to function effectively as a member or leader on a technical team.
- An ability to identify, analyze, and solve broadly defined engineering technology problems.
- An ability to communicate effectively regarding broadly defined engineering technology activities.
- An understanding of the need for and an ability to engage in self-directed continuing professional development.
- An understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity.
- A knowledge of the impact of engineering technology solutions in a societal and global context.
- A commitment to quality, timeliness, and continuous improvement.
- An appropriate level of achievement of the body of knowledge required by the Institute of Electrical and Electronics Engineers (IEEE), as listed in the program criteria applicable to computer engineering technology programs contained within the ETAC of ABET *Criteria for Accrediting Engineering Technology Programs*.

### Program Details

**Degree:** Bachelor of Science in Engineering Technology – Computers

**Semesters:** 9 full time

**Minimum credit hours required for graduation:** 139

**Normal time to complete:** 4.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

**For comprehensive consumer information, visit devry.edu/bet-c**

# Engineering Technology – Computers Program (continued)

**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

## Course Area / Minimum Credit Hours

**Communication Skills / 15**
(a) all of: ENGL112; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 9**
(a) one of: HUMN303[1]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[2]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[3,4]: PSYC290; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of: ECON312[1]; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5**
(a) all of: CARD405; COLL148

**Mathematics, Analytical Methods and Natural Sciences / 23**
(a) all of: ECET345; MATH190; MATH260; MATH270; PHYS310; PHYS320

**Electronic Circuits and Devices / 12**
(a) all of: ECET110; ECET210; ECET220

**Digital Circuits and Microprocessors / 20**
(a) all of: CEIS100; ECET105; ECET230; ECET330; ECET340; ECET365

## Course Area / Minimum Credit Hours

**Signal Processing / 4**
(a) ECET350

**Networks / 4**
(a) ECET375

**Software Design / 12**
(a) all of: ECET360; ECET370; ECET450

**Computer Programming / 12**
(a) all of: COMP122; COMP220; COMP274

**Senior Project Design and Development / 5**
(a) all of: ECET390; ECET492L; ECET493L; ECET494L

**Technology Integration / 2**
(a) all of: ECET299; ECET497

**Technical Alternates[5] / 8**
(a) two of: ECET420; ECET430; ECET460; ECET465; ECET490; MATH450[5]; MATH451[5]

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1  *Arkansas residents enrolled as online students must take this course.*
2  *Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.*
3  *Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.*
4  *Certain students enrolled as online students are assigned PSYC307 as part of this requirement.*

5  *All students interested in pursuing DeVry's Electrical Engineering master's degree program should seek academic advising before selecting their technical alternates; courses denoted with a superscript five ([5]) are recommended for such students.*

# Engineering Technology – Electronics Program

The Engineering Technology – Electronics program prepares graduates to join the workforce as technical professionals in a variety of industries. ET-E graduates play essential roles on the engineering team, typically designing and implementing hardware and software solutions to technical problems. Graduates should also possess appropriate knowledge, experience and skills to function effectively in multidisciplinary teams, adapt to changes in technical environments throughout their careers and progress in their professional responsibilities.

The program offers an option to complete a track in Renewable Energy Engineering Technology, as shown in the following program outline. Students selecting this option must declare their intention by the time they have earned 30 semester-credit hours toward their degree.

*Note: To complete their program, ET-E students must meet requirements outlined in* Electronics and Engineering Technology Programs – General Course Requirements.

**Program Educational Objectives**
Program educational objectives are the skills and abilities graduates are expected to demonstrate during the first few years of employment. ET-E program educational objectives include:

- Finding employment in an electronics-engineering-technology-related position with appropriate title and compensation.
- Achieving a successful professional career.
- Adapting to change through continuous personal and professional development.

**Student Outcomes**
Student outcomes are the skills and abilities students are expected to demonstrate at graduation. Student outcomes for the ET-E program include:

- An ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly defined engineering technology activities.
- An ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures and methodologies.

- An ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
- An ability to design systems, components, or processes for broadly defined engineering technology problems appropriate to program educational objectives.
- An ability to function effectively as a member or leader on a technical team.
- An ability to identify, analyze, and solve broadly defined engineering technology problems.
- An ability to communicate effectively regarding broadly defined engineering technology activities.
- An understanding of the need for and an ability to engage in self-directed continuing professional development.
- An understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity.
- A knowledge of the impact of engineering technology solutions in a societal and global context.
- A commitment to quality, timeliness, and continuous improvement.
- An appropriate level of achievement of the body of knowledge required by the Institute of Electrical and Electronics Engineers (IEEE), as listed in the program criteria for electronics engineering technology programs contained within the ETAC of ABET *Criteria for Accrediting Engineering Technology Programs*.

**Program Details**
**Degree:** Bachelor of Science in Engineering Technology – Electronics

**Semesters:** 9 full time

**Minimum credit hours required for graduation:** 139[1]

**Normal time to complete:** 4.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

**For comprehensive consumer information, visit devry.edu/bet-e**

1  142 for Arkansas residents enrolled as online students and selecting the Renewable Energy Engineering Technology track

# Engineering Technology – Electronics Program (continued)

**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

**Course Area / Minimum Credit Hours**

**Communication Skills / 15**
(a) all of: ENGL112; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 9**
(a) one of: HUMN303[2]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[3]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences – selection by program option**

*Renewable Energy Engineering Technology students / 7[4]*
(a) all of[5]: ECON410; SOCS325

*All other students / 9*
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[6,7]: PSYC290; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of: ECON312[8]; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5**
(a) all of: CARD405; COLL148

**Mathematics and Analytical Methods / 15**
(a) all of: ECET345; MATH190; MATH260; MATH270

**Natural Sciences – selection by program option**

*Renewable Energy Engineering Technology students / 16*
(a) all of: BIOS135; PHYS310; PHYS320; SCI204

*All other students / 8*
(a) all of: PHYS310; PHYS320

**Course Area / Minimum Credit Hours**

**Electronic Circuits and Devices / 12**
(a) all of: ECET110; ECET210; ECET220

**Digital Circuits and Microprocessors / 16**
(a) all of: CEIS100; ECET105; ECET230; ECET330; ECET340

**Signal Processing and Networks / 8**
(a) all of: ECET350; ECET375

**Computer Programming / 12**
(a) all of: COMP122; COMP220; COMP274

**Senior Project Design and Development / 5**
(a) all of: ECET390; ECET492L; ECET493L; ECET494L

**Technology Integration / 2**
(a) all of: ECET299; ECET497

**Program Option – one is selected**

*Renewable Energy Engineering Technology students / 18*
(a) all of: ECET301; REET300; SUST310
(b) eight semester-credit hours from the following technical alternates: INTP491 and INTP492; REET420; REET425

*All other students / 24*
(a) all of: ECET310; ECET365; ECET402
(b) 12 semester-credit hours from the following technical alternates[9]: ECET360[9]; ECET370[9]; ECET380; ECET405; ECET410; ECET420; ECET425; ECET430; ECET460; ECET465; INTP491 and INTP492; MATH450[9]; MATH451[9]; REET420; REET425

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2  Arkansas residents enrolled as online students must take this course.
3  Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.
4  10 for Arkansas residents enrolled as online students and selecting the Renewable Energy Engineering Technology track
5  Arkansas residents enrolled as online students who select the Renewable Energy Engineering Technology track must also take HIST225 as part of this requirement.
6  Arkansas residents enrolled as online students who do not select the Renewable Energy Engineering Technology track must take HIST225 in lieu of this requirement.
7  Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.
8  Arkansas residents enrolled as online students who do not select the Renewable Energy Engineering Technology track must take this course.

9  All students interested in pursuing DeVry's Electrical Engineering master's degree program should seek academic advising before selecting their technical alternates; courses denoted with a superscript nine ([9]) are recommended for such students

# Game & Simulation Programming Program

DeVry's Game & Simulation Programming curriculum prepares graduates to join the private and public video game and simulation software industry in various development roles across a product's programming life cycle, including programmer, software engineer and quality control. Applications-oriented, the program provides preparation in the math and physics of games; programming fundamentals; software product design; two- and three-dimensional graphics programming; game and simulation production; and game engine design. Also included is a full complement of general education courses, recommended by industry experts as critical for well-rounded development team members.

*Note: Because game and simulation technology changes more rapidly than technology in other fields, GSP students may be required to upgrade their PCs during the course of their program. Also, as U.S. game and simulation studios tend to be concentrated in specific cities, GSP graduates may need to relocate to pursue a career in this field. Information on game studio locations is available via the International Game Developers Association website,* [www.igda.org](www.igda.org)*.*

*Note: Internal transfers from any DeVry program into the Game & Simulation Programming program are not permitted.*

## Program Objectives

The program is designed to produce graduates who are able to:

- Design and program interactive and dynamic software applications using game and simulation principles and technologies.
- Integrate principles of game and simulation software development, physics and higher level math to program interactive software applications and manage technologies associated with such applications.
- Apply broader considerations of contemporary socio-economic, cultural, ethical and moral responsibility to the design and management of software development.
- Communicate effectively both orally and in writing.
- Participate effectively in project team environments.

DeVry accomplishes these goals by:

- Providing a sound foundation in various aspects of game and simulation development and programming, as well as software engineering and project management across multiple platforms.
- Incorporating a strong applications-oriented component with each technical course, which reinforces learning of fundamental concepts, principles and theory through use of computer hardware and software for problem-solving.
- Integrating general education competencies such as applied research, written and oral communication, critical thinking, problem-solving and team skills in technical and nontechnical courses.

## Program Details

**Degree:** Bachelor of Science in Game and Simulation Programming

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 127[1]

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

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*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

*Note: Special requirements apply to those who wish to be admitted to the GSP program (see* Special Admission Requirements for Game & Simulation Programming Program Applicants*).*

**For comprehensive consumer information, visit devry.edu/bgsp**

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1   *131 for Arkansas residents enrolled as online students*

# Game & Simulation Programming Program (continued)

## Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Course Area / Minimum Credit Hours

**Communication Skills / 15**
(a) all of: ENGL112; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities[2] / 9**
(a) one of: HUMN303[3]; HUMN451; LTRE421;
    LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[4]: ETHC445; HIST405; HIST410; HIST412;
    HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences[2] / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[5]: PSYC290[3]; PSYC305; PSYC315;
    SOCS315; SOCS325; SOCS335; SOCS350
(c) one of[6]: ECON312; LAWS310; LAWS420;
    POLI330; POLI410

**Personal and Professional Development / 5**
(a) all of: CARD405; COLL148

**Mathematics and Natural Sciences[7] / 19[8]**
(a) all of: GSP221; GSP321; MATH190; MATH233; PHYS216

### Course Area / Minimum Credit Hours

**Game and Simulation Core / 28**
(a) all of: GSP111; GSP240; GSP261; GSP281;
    GSP340; GSP410; MGMT404

**Programming / 12**
(a) all of: GSP115; GSP125; GSP215

**Advanced Programming / 20**
(a) all of: GSP295; GSP315; GSP381; GSP390; GSP420

**Technical Alternate / 4**
(a) one of: GSP465; GSP470; GSP475; GSP480

**Projects / 8**
(a) all of: GSP361; GSP362; GSP494; GSP497

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2  Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:
   Humanities / 6
   (a) one of: HUMN303; HUMN451; LTRE421; LTRE422;
       LTRE424; LTRE427; LTRE428
   (b) one of: ETHC445; PHIL447; PHIL449
   Social Sciences / 12
   (a) one of: PSYC110; SOCS185; SOCS190
   (b) one of: PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
   (c) one of: ECON312; HIST405; HIST410; HIST412; HIST415; HIST417;
       LAWS310; LAWS420; POLI330; POLI410; RELI448
   (d) LAS432
3  Arkansas residents enrolled as online students must take this course.
4  Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.
5  Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.
6  Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.
7  Arkansas residents enrolled as online students must also take one of the following as part of this requirement: BIOS105, BIOS135, BIOS140, CHEM120, SCI204, SCI214, SCI224, SCI228, SCI230.
8  23 for Arkansas residents enrolled as online students

# Network & Communications Management Program

To address the need for professionals who can harness technology to advance business goals, DeVry's Network & Communications Management program integrates technology and business management coursework, enabling graduates to analyze communications needs, provide effective networking solutions and fill a critical niche in business organizations. The program addresses designing, implementing, securing and managing networks in order to gain a technical understanding of networking data, voice and images, as well as their strategic application in business.

The program offers tracks as shown in the following program outline. Students must choose an area of specialization before they begin the program.

## Program Objectives

The program is designed to produce graduates who are able to:

- Develop network solutions matched to the needs of the business.
- Manage technologies to support business objectives.
- Communicate effectively both orally and in writing.
- Demonstrate project management skills.
- Apply research and problem-solving skills.

DeVry accomplishes these goals by:

- Providing coursework on networking principles and technologies to develop networking solutions for business using industry standards.
- Incorporating networking and communications technologies into courses based on current and emerging demands such as, but not limited to, wireless and security.

## Program Details

**Degree:** Bachelor of Science in Network and Communications Management (in New York, Bachelor of Professional Studies in Network and Communications Management)

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 124[1,2]

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

*Note: Students enrolled at a New Jersey location must take an additional six semester-credit hours of general education coursework from among the following course areas: communication skills, humanities, social sciences, mathematics and natural sciences. Courses selected in humanities or social sciences should be upper-division coursework (DeVry courses numbered 300–499).*

1   128 for Arkansas residents enrolled as online students
2   128 for students enrolled at a New Jersey location

**For comprehensive consumer information, visit devry.edu/bncm**

## Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Course Area / Minimum Credit Hours

### Communication Skills / 15[3]
(a) all of: ENGL112[4]; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

### Humanities[5,6] / 9
(a) one of: HUMN303[7]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[8]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

### Social Sciences[5] / 9
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[9]: PSYC290[7]; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of[10,11]: ECON312; LAWS310; LAWS420; POLI330; POLI410

### Personal and Professional Development / 5[12]
(a) all of: CARD405; COLL148

### Mathematics and Natural Sciences / 12[13,14]
(a) all of: MATH114; MATH221
(b) one of[15,16]: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

3   14 for students enrolled at a New Jersey location
4   Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
5   Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:
Humanities / 6
(a)  one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b)  one of: ETHC445; PHIL447; PHIL449
Social Sciences / 12
(a)  one of: PSYC110; SOCS185; SOCS190
(b)  one of: PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c)  one of: ECON312; HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448
(d)  LAS432
6   Students enrolled at a New Jersey location must take the following to meet the Humanities requirement:
Humanities / 12
(a) one of: HUMN303; LTRE421; LTRE422; LTRE424; LTRE427
(b) one of: HIST410; HIST412; HIST417
(c) one of: ETHC445; HUMN451; RELI448
(d) LAS432
7   Arkansas residents enrolled as online students must take this course.
8   Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.
9   Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.
10  Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.
11  Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.
12  For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.
13  16 for Arkansas residents enrolled as online students
14  11 for students enrolled at a New Jersey location
15  Arkansas residents enrolled as online students must take two courses from this group.
16  Students enrolled at a New Jersey location may take SCI200 to fulfill this requirement.

# Network & Communications Management Program (continued)

| Course Area / Minimum Credit Hours |
|---|

**Business / 11**
(a) all of: ACCT301; BUSN115; MGMT404

**Computing / 12**
(a) all of: CEIS100; COMP129; COMP230; SEC280

**Special Topics / 3**
(a) one of: MGMT408; NETW430

**Network Operating Systems and Technologies / 31**
(a) all of: NETW230; NETW240; NETW250; NETW310;
    NETW320; NETW360; NETW410; NETW420; NETW471

**Track – one option is selected / 15**

    *Cisco Networking Fundamentals*
    (a) all of: NETW203; NETW205; NETW207;
        NETW209; SEC453

    *Networking Fundamentals*
    (a) all of: NETW202; NETW204; NETW206;
        NETW208; SEC450

**Senior Project – one option is selected / 4**
(a) NETW490
(b) all of: NETW494; NETW497

# College of **Media Arts & Technology**

DeVry University's College of Media Arts & Technology offers degree programs focused on helping students build strong digital imaging skills, refine their design sensibilities and grasp diverse applications of artistic endeavors. Programs and courses – offered onsite and online days, evenings and weekends – are developed with input from a professional advisory board, are taught by faculty with industry-relevant experience, and provide an enriching education through experiential learning, access to the latest web and multimedia design technologies, and case studies.

The following pages provide detailed information on undergraduate programs offered through the College of Media Arts & Technology.

## MEDIA ARTS & TECHNOLOGY PROGRAMS

*Associate*
degree

· Web Graphic Design

*Bachelor's*
degree

· Multimedia Design & Development

# Web Graphic Design Program

DeVry developed its Web Graphic Design program to prepare graduates to develop graphic media – web pages, marketing collateral, advertising, instructional material and multimedia projects – by applying a collaborative approach. Working in a variety of areas such as advertising, marketing, technical communications, publishing and training, web graphic designers use software applications to design, illustrate, compile and produce visual solutions for communications, especially for the Internet.

## Program Objectives

The program is designed to produce graduates who are able to:

- Apply basic graphic and design principles to web media using application software.
- Create animations for use in web media.
- Apply creativity and problem-solving skills to produce graphic media solutions for communications and training.
- Communicate effectively both orally and in writing.
- Participate effectively in collaborative environments.

## Program Details

**Degree:** Associate of Applied Science in Web Graphic Design (in Florida, Associate of Science in Web Graphic Design; in Minnesota, New Jersey and Pennsylvania, Associate in Applied Science in Web Graphic Design)

**Semesters:** 5 full time

**Minimum credit hours required for graduation:** 67[1,2]

**Normal time to complete:** 2.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

1  63 for Minnesota residents enrolled as online students and for students enrolled at a Minnesota location
2  62 for students enrolled at a New Jersey location

**For comprehensive consumer information, visit devry.edu/awgd**

## Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Course Area / Minimum Credit Hours

**Communication Skills / 11[3]**
(a) all of: ENGL112[4]; ENGL135
(b) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 3**
(a) ETHC232[5]

**Social Sciences / 3**
(a) one of[6]: PSYC110; SOCS185; SOCS190

**Personal and Professional Development / 5[7]**
(a) all of: CARD205[5]; COLL148[5]

**Mathematics / 8[8]**
(a) all of: MATH103[9,10]; MATH114

**Business / 3**
(a) BUSN115

**Computing / 2**
(a) COMP100

**Web Graphic Design / 30**
(a) all of: WGD201; WGD205; WGD210; WGD229; WGD232; WGD235; WGD242; WGD251

**Project / 3**
(a) WGD260

3   10 for students enrolled at a New Jersey location
4   Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
5   Ohio residents enrolled as online students, and students enrolled at an Ohio location, should note that CARD205, COLL148 and ETHC232 are specifically tailored to meet the needs of DeVry students. Therefore, credit for these courses may not transfer in full to other institutions. Transfer credit acceptance is determined by receiving institutions.
6   Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.
7   For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.
8   four for Minnesota residents enrolled as online students and for students enrolled at a Minnesota location
9   Minnesota and Ohio residents enrolled as online students, and students enrolled at a Minnesota or Ohio location, do not take MATH103. To graduate, these students must demonstrate mathematics competency at the level of DeVry's Beginning Algebra course through the placement process or by successfully completing MATH062.
10  Ohio residents enrolled as online students, and students enrolled at an Ohio location, must take one of the following in lieu of MATH103: BIOS105, BIOS135, BIOS140, CHEM120, PHYS216, SCI204, SCI214, SCI224, SCI228, SCI230.

# Multimedia Design & Development Program

DeVry's Multimedia Design & Development program prepares graduates to create and distribute web-enabled and other digital media. Industry-standard and innovative new software is used to create application projects. The program offers tracks as shown in the following program outline. Coursework addressing multimedia standards, the graphics business and emerging technologies provides a foundation for the tracks.

Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a track by the time they have earned 60 semester-credit hours toward their degree.

## Program Objectives

The program is designed to produce graduates who are able to:

- Apply industry standards to multimedia projects that meet client requirements.
- Demonstrate technical proficiency in multimedia design and development.
- Effectively coordinate and manage multimedia projects.
- Communicate effectively both orally and in writing.
- Participate effectively in project team environments.

DeVry accomplishes these goals by:

- Incorporating activities and labs to provide the appropriate level of applications experience.
- Integrating general competencies such as applied research, written and oral communications, critical thinking, problem-solving, and team skills in technical and nontechnical courses.

## Program Details

**Degree:** Bachelor of Science in Multimedia Design and Development

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 122[1]

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see General Notes at the beginning of* Colleges & Programs of Study.

*Note: Students enrolled at a New Jersey location must take an additional six semester-credit hours of general education coursework from among the following course areas: communication skills, humanities, social sciences, mathematics and natural sciences. Courses selected in humanities or social sciences should be upper-division coursework (DeVry courses numbered 300–499).*

1  *126 for Arkansas residents enrolled as online students*

**For comprehensive consumer information, visit devry.edu/bmdd**

## Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Course Area / Minimum Credit Hours

**Communication Skills / 15[2]**
(a) all of: ENGL112[3]; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities[4] / 9**
(a) one of: HUMN303[5]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[6]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences[4] / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[7]: PSYC290[5]; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of[8,9]: ECON312; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5[10]**
(a) all of: CARD405; COLL148

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2  *14 for students enrolled at a New Jersey location*
3  *Students enrolled at a New Jersey location take ENGL108 in lieu of this course.*
4  *Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:*
   *Humanities / 6*
   *(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428*
   *(b) one of: ETHC445; PHIL447; PHIL449*
   *Social Sciences / 12*
   *(a) one of: PSYC110; SOCS185; SOCS190*
   *(b) one of: PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350*
   *(c) one of: ECON312; HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448*
   *(d) LAS432*
5  *Arkansas residents enrolled as online students must take this course.*
6  *Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.*
7  *Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.*
8  *Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.*
9  *Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.*
10 *For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.*

# Multimedia Design & Development Program (continued)

| Course Area / Minimum Credit Hours |
|---|

**Mathematics and Natural Sciences / 12** [11,12]

(a) all of: MATH114; MATH221

(b) one of [13,14]: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

**Business and Computing / 5**

(a) all of: BUSN115; COMP100

**Multimedia Core / 45**

(a) all of: MDD310; MDD340; MDD410; WGD201; WGD205; WGD210; WGD229; WGD232; WGD235; WGD242; WGD251; WGD260

**Senior Project / 4**

(a) all of: MDD460; MDD461

| Course Area / Minimum Credit Hours |
|---|

**Track – one of the following is selected / 19**

*Graphic and Multimedia Design*

(a) all of: GMD311; GMD341; GMD371; GMD411; GMD451

*Graphics and Multimedia Management*

(a) all of: BUSN319; ECOM340; MGMT404; MKTG410; SBE310

*Web Design and Development*

(a) all of: CIS336; WBG310; WBG340; WBG410; WDD420

*Web Game Programming*

(a) all of: WBG310; WBG340; WBG370; WBG410; WBG450

11  16 for Arkansas residents enrolled as online students
12  11 for students enrolled at a New Jersey location
13  Arkansas residents enrolled as online students must take two courses from this group.
14  Students enrolled at a New Jersey location may take SCI200 to fulfill this requirement.

# College of **Health Sciences**

DeVry University's College of Health Sciences offers degree and certificate programs focused on in-demand technology-based healthcare fields. Leading industry professionals help build the curricula, which are taught by faculty with real-world experience and address knowledge needed to seek healthcare-related certifications and employment in hospitals, clinics and labs. Programs and courses – offered onsite and online days, evenings and weekends – include intensive practicum experience in clinical settings, and lab assignments employing the latest equipment and technologies.

The following pages provide details on programs offered in the College of Health Sciences.

## HEALTH SCIENCES PROGRAMS

*Certificate*
- Medical Billing & Coding

*Associate* degree
- Health Information Technology
- Neurodiagnostic Technology

*Bachelor's* degree
- Clinical Laboratory Science
- Healthcare Administration

# Medical Billing & Coding Program

DeVry's Medical Billing & Coding undergraduate certificate program provides students with the knowledge, skills and abilities needed to function as entry-level coding specialists in the health information management field. Coursework, taught from the practitioner's perspective, focuses on skills and coding competencies used in settings such as hospitals and physician practices.

## Program Objectives

The program is designed to produce graduates who are able to:

- Demonstrate understanding of inpatient and outpatient coding guidelines.
- Apply knowledge of health records and data content.
- Explain reimbursement processes and methodologies.
- Relate compliance topics to coding functions.
- Describe various information technologies used to perform coding functions.
- Recognize, and be sensitive to, issues of confidentiality and privacy.

## Program Details

**Credential:** Undergraduate Certificate in Medical Billing and Coding

**Semesters:** 2 full time

**Minimum credit hours required for graduation:** 34

**Normal time to complete:** 1 year, assuming enrollment in 17 credit hours per semester and attending 2 semesters per year; enrollment in 18–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

### Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Course Area / Minimum Credit Hours

**Natural Sciences / 11**
(a) all of: BIOS105; BIOS260; BIOS275

**Health Information Technology / 24**
(a) all of: HIT111; HIT120; HIT141; HIT203; HIT205; HIT211; HIT230

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*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

***For comprehensive consumer information, visit devry.edu/ucmbc***

# Health Information Technology Program

DeVry's Health Information Technology program prepares graduates to work with health data, applications systems and electronic health information databases. Given the importance of information accuracy, privacy and security, HIT graduates are prepared for involvement in regulatory compliance and quality assessment activities designed to ensure that health information systems support patient care and safety. They work with nurses, physicians, other healthcare providers, and managers and technical specialists in a variety of settings such as hospitals, long-term-care facilities, insurance and managed care organiz-ations, government agencies and vendor firms.

*Note: To complete their program, HIT students must meet require-ments outlined in* Healthcare Practicum and Clinical Coursework Requirements *and in* Healthcare Site Requirements.

**Program Objectives**

The program is designed to produce graduates who are able to:

- Perform complex clinical coding tasks.
- Support healthcare data analysis and management using applications software.
- Abstract, analyze and manage healthcare data.
- Use principles of life sciences and information technology to implement and evaluate solutions to healthcare inform-ation technology problems.

DeVry accomplishes these goals by:

- Providing an academic program that develops a sound foundation in analytical, technical and management com-petencies associated with health data and health records systems management within a healthcare setting.
- Incorporating professional practice activities and labs to provide the appropriate level of applications experience.
- Integrating general learning in sciences and computers to support achievement of competencies.

**Program Details**

**Degree:** Associate of Applied Science in Health Information Technology (in New Jersey and Pennsylvania, Associate in Applied Science in Health Information Technology)

**Semesters:** 4 full time (5 full time in New Jersey)

**Minimum credit hours required for graduation:** 67[1,2]

**Normal time to complete:** 2 years (2.5 years in New Jersey), assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

| Course Area / Minimum Credit Hours |
| --- |

**Communication Skills / 4[3,4]**
(a) ENGL112[5,6]

**Humanities / 3**
(a) ETHC232

**Social Sciences / 3**
(a) one of: PSYC110; SOCS185; SOCS190

**Personal and Professional Development / 5[7]**
(a) all of: CARD205; COLL148

**Mathematics and Natural Sciences / 15**
(a) all of: BIOS105; BIOS260; BIOS275; MATH103

**Computer Applications / 5**
(a) all of: BIS155; COMP100

**Health Information Technology / 34**
(a) all of: HIT111; HIT120; HIT141; HIT170; HIT203; HIT205; HIT211; HIT220; HIT226; HIT230; HIT272[8]; HIT272L

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Note: All students should see General Notes at the beginning of Colleges & Programs of Study.

1  70 for Arkansas residents enrolled as online students
2  63 for students enrolled at a New Jersey location

**For comprehensive consumer information, visit devry.edu/ahit**

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3  *seven for Arkansas residents enrolled as online students*
4  *three for students enrolled at a New Jersey location*
5  *Arkansas residents enrolled as online students must also take ENGL206 as part of this requirement.*
6  *Students enrolled at a New Jersey location take ENGL108 in lieu of this course.*
7  *For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.*
8  *For all students, this practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting. Practice time is generally completed during traditional business hours.*

# Neurodiagnostic Technology Program

DeVry's Neurodiagnostic Technology program, offered jointly with the New Jersey Neuroscience Institute, prepares graduates to become competent neurodiagnostic and polysomnographic technologists, sensitive to patient concerns, skilled in administration of neurophysiological tests, and familiar with normal and disordered neurobehavioral functions.

The program provides extensive practical training in patient testing and establishes a firm background in relevant clinical and basic sciences.

The program prepares graduates for board certification exams and employment opportunities in hospital labs, academic research facilities and the private sector.

In the first year, students complete core courses in general education, electronics foundations and basic science at DeVry. Students then progress to advanced courses in neuroanatomy, neurophysiology and correlative neurology, supplemented by intensive clinical training at NJNI training sites.

For the program's practical component, students rotate through the following clinical labs: electroencephalography, polysomnography, evoked potential, intraoperative monitoring, epilepsy monitoring and nerve conduction studies. They also have elective opportunities in areas such as autonomic nervous system testing, oculography, pupillometry and neurophysiologic research.

*Note: To complete their program, NDT students must meet personal health status and clinical agency requirements outlined in* Additional Requirements – Neurodiagnostic Technology Program.

## Program Objectives

The program is designed to produce graduates who are able to:

- Demonstrate theoretical and practical understanding of the ethical, legal and psychological principles involved in patient contact.
- Display both oral and written communication skills that allow for effective interaction with medical and technical staff, as well as with patients and their families.
- Make and record valid clinical observations, keep complete and legible records, and protect patient data.
- Prepare patients for testing, and record, process, store and interpret neuroelectric signals.
- Demonstrate competence in first-echelon maintenance of equipment and troubleshooting in both practice and test situations.
- Satisfy requirements of examining boards for certification in NDT subspecialties.

## Program Details

**Degree:** Associate in Applied Science in Neurodiagnostic Technology

**Semesters:** 5 full time

**Minimum credit hours required for graduation:** 65

**Normal time to complete:** 2.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters  (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

Additional information is available in *Programmatic Accreditation and Recognition*.

## Sequenced Courses

Pairs of NDT courses are identified as "sequenced" in *Course Area Details* and in *Course Descriptions*. Each two-course sequence must be completed within two consecutive sessions and may not be taken independently. Students register for both courses at the beginning of the sequence. Students who withdraw from the first course are assigned a designator of W (Withdrawal) for the first course and are dropped from the subsequent course. If the first course is completed, a designator of I (Incomplete) is assigned until the second course is graded. When the second course is completed, the same grade is awarded for both courses. If students drop or withdraw from the second course, the first course is assigned a designator of W. If a retake of the second course is required for any reason, both the first and the second courses must be retaken. These courses are not included in satisfactory academic progress calculations until both courses in the sequence have been graded. Incompletes assigned to the first course do not result in designators of U while students continue in the second course.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

**For comprehensive consumer information, visit devry.edu/andt**

# Neurodiagnostic Technology Program (continued)

**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

| Course Area / Minimum Credit Hours |
| --- |

**Communication Skills / 6**
(a) all of: ENGL108; ENGL206

**Humanities / 3**
(a) ETHC232

**Social Sciences / 3**
(a) PSYC110

**Mathematics and Natural Sciences / 11**
(a) MATH118
(b) all of: BIOS105; BIOS275

**Personal and Professional Development / 5 [1]**
(a) all of: CARD205; COLL148

**Computer Applications / 2**
(a) COMP100

**Neuroelectric Theory and Instrumentation / 6**
(a) all of: NDT155; NDT205

**Neuroscience [2] / 10**
(a) all of: NDT221 and NDT222; NDT241 and NDT242; NDT266 and NDT267; NDT286 and NDT287

**Clinical Practicum [2,3] / 24**
(a) all of: NDT256 and NDT257; NDT276 and NDT277; NDT296 and NDT297

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1  For students enrolled at a New Jersey location, credit hours awarded for required Personal and Professional Development courses result in institutional credit only.

2  The following courses are sequenced pairs: NDT221 and NDT222; NDT241 and NDT242; NDT256 and NDT257; NDT266 and NDT267; NDT276 and NDT277; NDT286 and NDT287; NDT296 and NDT297. See special conditions in Sequenced Courses for enrollment and grading of sequenced courses.

3  Each practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting.

# Clinical Laboratory Science Program

DeVry's Clinical Laboratory Science program is designed to prepare graduates for positions in hospital, medical, physician and commercial laboratories as clinical laboratory scientists in areas such as hematology/hemostasis, immunohematology, immunology, clinical chemistry and microbiology (including molecular diagnostics). Through analysis of body fluids and cells, clinical laboratory scientists play crucial roles in detecting, diagnosing and treating disease and providing test results to other healthcare professionals. The program offers both didactic and clinical education to help students develop a wide range of professional skills needed to function in an atmosphere of inquiry and innovation.

*Note: To complete their program, CLS students must meet requirements outlined in* Additional Academic and Administrative Requirements for Clinical Laboratory Science Program Students, Healthcare Practicum and Clinical Coursework Requirements, Healthcare Site Requirements *and* Healthcare Site General Information.

**Program Objectives**

The program is designed to produce graduates who are able to:

- Exhibit independent judgment in applying principles of pre-analytical, analytical and postanalytical concepts in all areas of the clinical lab – hematology, clinical chemistry, immunohe-matology, microbiology, immunology, hemostasis, body fluids, phlebotomy and molecular diagnostics.

- Identify and correct, when appropriate, sources of biohazards and unsafe lab practices in compliance with federal, state and local regulations.

- Demonstrate proficiency in operating, maintaining, trouble-shooting, managing and evaluating a variety of laboratory equipment.

- Evaluate published studies through understanding and appli-cation of research design and practice as they relate to clinical laboratory science.

- Demonstrate understanding and applications of human resource and financial management, regulatory compliance, budgeting, and quality assurance and improvement to ensure timely, accurate and cost-effective reporting and appropriate use of lab-generated information.

DeVry accomplishes these goals by:

- Providing an academic program with a solid foundation in the arts and sciences, with strong emphasis on the natural sciences, including the more specialized areas of microbiology, cell biology, immunology, organic chemistry and biochemistry.

- Incorporating into each science and clinical science course a strong lab or clinical component, including use of appropriate hardware and software for testing and analyzing biological samples.

- Integrating general competencies such as applied research, written and oral communication, critical thinking, problem-solving and team skills into science and non-science courses.

**Program Details**

**Degree:** Bachelor of Science in Clinical Laboratory Science

**Semesters:** 9 full time

**Minimum credit hours required for graduation:** 130

**Normal time to complete:** 4.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

***For comprehensive consumer information, visit devry.edu/bcls***

# Clinical Laboratory Science Program (continued)

**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

**Course Area / Minimum Credit Hours**

**Communication Skills / 15**

(a) all of: ENGL112; ENGL135

(b) one of: ENGL216; ENGL219; ENGL227

(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities / 9**

(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428

(b) all of: ETHC445; LAS432

**Social Sciences / 9**

(a) one of: PSYC110; SOCS185; SOCS190

(b) one of: PSYC290; PSYC305; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350

(c) one of: ECON312; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5**

(a) all of: CARD405; COLL148

**Mathematics and Natural Sciences / 47**

(a) all of: MATH114; MATH221

(b) all of: BIOS140; BIOS195; BIOS242; BIOS245; BIOS380; BIOS390; BIOS480; CHEM130; CHEM140; CHEM225

**Clinical Laboratory Science / 46**

(a) all of: CLS100; CLS210; CLS225; CLS230; CLS240; CLS299; CLS350; CLS351; CLS399; CLS408; CLS410; CLS420; CLS430; CLS440; CLS450; CLS451; CLS499

# Healthcare Administration Program

The Healthcare Administration program is designed to prepare graduates to become managers and support professionals in the healthcare field as well as in related industries. The program helps develop versatile professionals who, using a collaborative approach, apply knowledge of information systems, policy, accounting, budgeting and analysis in diverse healthcare provider settings. The combination of management skills and knowledge of current issues in health services and systems provides Healthcare Administration graduates with a solid educational foundation on which to begin their healthcare careers.

Tracks are offered as shown in the following program outline. Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a track by the time they have earned 30 semester-credit hours toward their degree.

### Program Objectives
The program is designed to produce graduates who are able to:

- Analyze, design and implement practical approaches to solve and prevent business problems in healthcare settings.
- Sustain a working understanding of evolving issues in the healthcare industry.
- Collaborate with others to deliver professional healthcare services in diverse work environments.
- Apply project management and business analysis principles.
- Communicate effectively both orally and in writing.

### Program Details
**Degree:** Bachelor of Science in Healthcare Administration

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 126[1]

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

### Program Outline
Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

**Course Area / Minimum Credit Hours**

**Communication Skills / 15**
(a) all of: ENGL112; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities[2] / 9**
(a) one of: HUMN303[3]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[4]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences[1] / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of: PSYC290; PSYC305[5]; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of[6]: ECON312; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5**
(a) all of: CARD405; COLL148

**Mathematics and Natural Sciences / 12[7]**
(a) all of: MATH114; MATH221
(b) selection by track:
- *Healthcare Informatics students:* BIOS135
- *All other students – one of[8]:* BIOS105; BIOS135; BIOS140; CHEM120; PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

**Business and Technology Core / 34**
(a) all of: ACCT212; ACCT346; BIS155; BIS245; BUSN115; BUSN278; BUSN350; COMP100; MGMT303; MGMT404

**Health Services / 24**
(a) all of: HSM310; HSM320; HSM330; HSM340; HSM410; HSM420

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2  Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:
Humanities / 6
(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of: ETHC445; PHIL447; PHIL449
Social Sciences / 12
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of: PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of: ECON312; HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448
(d) LAS432
3  Arkansas residents enrolled as online students must take this course.
4  Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.
5  Certain students enrolled as online students are assigned PSYC307 in lieu of this requirement.
6  Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.
7  16 for Arkansas residents enrolled as online students
8  Arkansas residents enrolled as online students must take two courses from this group.

*Note: All students should see General Notes at the beginning of Colleges & Programs of Study.*

1  130 for Arkansas residents enrolled as online students

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# Healthcare Administration Program (continued)

**Course Area / Minimum Credit Hours**

### Senior Project / 3

(a) one of: BUSN460; BUSN462 and BUSN463

### Track – one option is selected / Varies by selection

#### Healthcare Informatics / 15

(a) all of: BIS261; BIS345; BIS445; HIT111

#### Healthcare Management / 16

(a) all of: BUSN319; MGMT410

(b) Students select upper-division coursework (courses numbered 300–499) totaling at least nine semester-credit hours from the business core or major/concentration/technical specialty areas of programs in the College of Business & Management. Senior project courses are excluded. Students must satisfy all prerequisites for selected courses; prerequisite courses are not applicable to track completion requirements. Additionally, students must receive approval from the appropriate academic administrator to enroll in courses they select.

# College of **Liberal Arts & Sciences**

DeVry University's College of Liberal Arts & Sciences offers degree programs focused on helping students learn to think critically and creatively, while providing focused yet flexible perspectives on the arts, social sciences and humanities, and building effective communication skills for diverse professional environments. Programs and courses – offered onsite and online days, evenings and weekends – are developed with input from academic and industry leaders, are taught by faculty with relevant professional experience, and provide an enriching education through experiential learning, technologies and case studies.

The following pages provide detailed information on undergraduate programs offered through the College of Liberal Arts & Sciences. Further information on graduate degree programs and offerings available through the College is available via www.devry.edu.

### LIBERAL ARTS & SCIENCES PROGRAMS

*Bachelor's*
degree

- Communications
- Justice Administration

*Master's*
degree

- Education
- Educational Technology
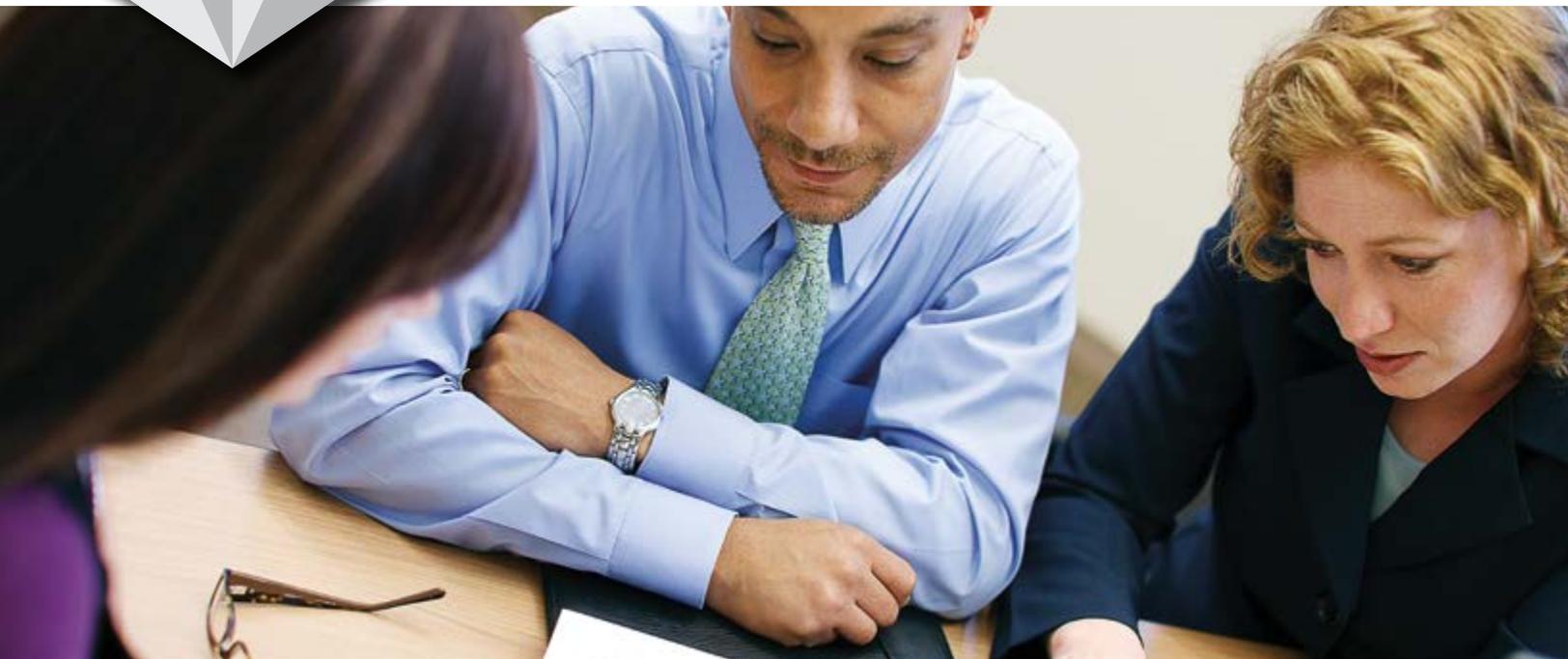
# **Communications** Program

Students in DeVry's Communications program develop a robust set of applied skills around a chosen concentration area they can transfer to a broad range of career opportunities. The program offers concentrations as shown in the following program outline. Each focused concentration is complemented by a multidisciplinary course of study in applied technologies, business, communication skills, humanities, mathematics, natural sciences and the social sciences. Graduates gain the flexibility to enter and advance in diverse roles – such as administration, communications and consulting – in public or private sector industries including manufacturing, professional services and other areas.

Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a concentration by the time they have earned 30 semester-credit hours toward their degree.

### Program Objectives

The program is designed to produce graduates who are able to:

• Apply a variety of perspectives in analyzing a problem.
• Deal effectively with diverse, multicultural and multi-functional audiences.
• Work effectively in team and collaborative environments.
• Apply critical and analytical thinking to solve complex problems.
• Communicate effectively both orally and in writing.
• Demonstrate competency in an area of specialization.

### Program Details

**Degree:** Bachelor of Science in Communications

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 122[1]

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

*Note: Special requirements apply to those who wish to be admitted to the CDM Completion Option (see* Additional Admission Requirements for Applicants to the Communications Program with Communication Design Management Completion Option*).*

1  131 for Arkansas residents enrolled as online students in the Communication Design Management Completion Option

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### Program Outline

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

**Course Area / Minimum Credit Hours**

### Principles / 38
(a) all of: BUSN115; CARD405; COLL148; COMP100; ECON312; ENGL112; ENGL135; LAS432; MGMT404; PSYC305[2]; SCI214
(b) one of: PSYC110; SOCS185; SOCS190

### Perspective Disciplines / 53

*Applied Technologies – selection by concentration*

**Emerging Media Communications students**
(a) COMP129
(b) one of: BIS155, BIS245, CIS115, WGD210

**All other students**
(a) two of: BIS155; BIS245; CIS115; COMP129; WGD201; WGD205; WGD210

*Business*
(a) BUSN319
(b) one course is selected from those with prefixes ACCT, BIS, BUSN, ECOM, GSCM, HOSP, HRM, HSM, MGMT, MKTG, PROJ, SBE, SEC and SUST

*Communication Skills*
(a) ENGL227
(b) one of: ENGL216; ENGL219; ENGL230; SPCH275; SPCH277; SPCH279

*Humanities[3,4]*
(a) one of: ETHC232; HUMN303
(b) two of: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; HUMN451; HUMN460SA; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428; PHIL447; PHIL449; RELI448

2  Certain students enrolled as online students are assigned PSYC307 in lieu of this course.
3  Arkansas residents enrolled as online students must take the following in lieu of this requirement:
   (a) all of: ETHC232; HUMN303
   (b) one of: ETHC445; HIST410; HIST412; HIST415; HIST417; HUMN451; HUMN460SA; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428; PHIL447; PHIL449; RELI448
4  Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the combined requirement for Humanities and Social Sciences:
   Humanities
   (a) one of: ETHC232; HUMN303
   (b) one of: ETHC445; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428; PHIL447; PHIL449
   Social Sciences
   (a) two of: ECON315; HUMN460SA; LAWS310; LAWS420; POLI330; POLI410; PSYC315
   (b) one of: HIST405; HIST410; HIST412; HIST415; HIST417; RELI448
   (c) one of: SOCS315; SOCS325; SOCS335; SOCS350

# **Communications** Program (continued)

### *Mathematics*
(a) all of: MATH114; MATH221

### *Natural Sciences*
(a) two of: BIOS105; BIOS135; BIOS140; CHEM120;
PHYS216; SCI204; SCI224; SCI228; SCI230

### *Social Sciences[5,6]*
(a) one of: SOCS315; SOCS325; SOCS335; SOCS350
(b) two of[7]: ECON315; HUMN460SA; LAWS310;
LAWS420; POLI330; POLI410; PSYC315

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**Senior Project / 4**
(a) all of: COMM491; COMM492

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**Concentration – one option is selected / Varies by selection**
Students should ensure that prerequisites for the chosen
concentration have been met through selections in other
course areas.

### *Business Communication / 28*
(a) all of: BUSN412; ENGL216; MGMT303;
SOCS335; SOCS350; TC220; TC420
(b) one of: PSYC315; SPCH277

### *Communication Design Management / 27*
(a) all of: CDM300; CDM340; CDM360; CDM410;
CDM420; CDM430; CDM440

### *Emerging Media Communication / 28*
(a) all of: ECOM340; PSYC315; SEC280;
TC310; TC440; WGD201; WGD205
(b) one of: BUSN258; HIST410; PHIL447;
POLI410; WGD229

### *Technical Communication / 28*
(a) all of: TC160; TC220; TC310; TC320; TC360
(b) two of: TC420; TC430; TC440; TC450

**Communications Program with Communication
Design Management Completion Option**

Qualified graduates of recognized associate degree programs
may select this option, which provides a multidisciplinary course
of study in applied technologies, business, communication
skills, humanities, mathematics, natural sciences and the social
sciences, as well as a concentration focusing on communication
design management. Graduates gain the flexibility to enter
and advance in diverse roles – such as administration,
communications and consulting – in public- or private-sector
industries including manufacturing, professional services and
other areas.

Additional information is found in *Registration and Course
Scheduling*.

### **Program Outline**
Each lettered group in the following outline represents a
graduation requirement. Though some courses may appear
in more than one course area, each course may be applied to
fulfill one graduation requirement only. Additional information
is found in *Course Offerings* and in *Course Descriptions*.

### **General Education / 40**
Of the 40 required hours, a minimum of six semester-credit
hours must be successfully completed in each of the following
disciplines: Communication Skills (ENGL and SPCH courses),
Humanities[8] (ETHC, HIST, HUMN, LAS, LTRE, PHIL and RELI
courses), Mathematics and Natural Sciences (BIOS, CHEM, MATH,
PHYS and SCI courses) and Social Sciences[8] (ECON, LAWS, POLI,
PSYC and SOCS courses). Students should check with their
advisor to ensure that specific courses will apply to their
General Education requirements.

(a) all of: CARD405; ENGL135; LAS432; MATH114;
MATH211; COMM301; PHIL347; PSYC305[9]
(b) one of: BIOS105; BIOS135; BIOS140; CHEM120;
PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230
(c) The remaining nine semester-credit hours[10,11], are selected
from courses with prefixes BIOS, CHEM, COLL, ECON,
ENGL, ETHC, HIST, HUMN, LAWS, LTRE, MATH, PHIL,
PHYS, POLI, PSYC, RELI, SCI, SOCS and SPCH.

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5   Arkansas residents enrolled as online students
must take the following in lieu of this requirement:
(a) all of: HIST225; PSYC290
(b) one of: ECON315; HUMN460SA; LAWS310;
LAWS420; POLI330; POLI410
6   See footnote 3 on page 75.
7   Students enrolled at a Nevada location must
take POLI332 as part of this requirement.

8   Minnesota residents enrolled as online students must take the following to meet the
12-semester-credit-hour combined requirement for Humanities and Social Sciences:
Humanities / 6
(a) one of: HUMN303; HUMN450; LTRE421; LTRE422;
LTRE424; LTRE427; LTRE428
(b) PHIL347
Social Sciences / 6
(a) PSYC315
(b) LAS432
For these students the remaining 28 credit hours in general
education are taken as follows:
(a) all of: CARD405; COMM301; ENGL135; MATH114; MATH211
(b) one of: BIOS105; BIOS135; BIOS140; CHEM120; PHYS216;
SCI204; SCI214; SCI224; SCI228; SCI230
(c) 6 semester-credit hours from courses with prefixes BIOS, CHEM,
COLL, ECON, ENGL, ETHC, HIST, HUMN, LAWS, LTRE, MATH, PHIL,
PHYS, POLI, PSYC, RELI, SCI, SOCS and SPCH
9   Certain online students are assigned PSYC307 in lieu of this requirement
10 Arkansas residents enrolled as online students must take the
following to meet this requirement.
(a) two of: PSYC110; PSYC290; SOCS185; SOCS190
(b) ENGL112
(c) all of: ETHC232; HIST225; HUMN303
11 Minnesota residents enrolled as online students may not apply
MATH103 to graduation requirements.

# Communications Program (continued)

| Course Area / Minimum Credit Hours |
| --- |

**Business, Management and Technology / 10**
(a) all of: BUSN315; BUSN350; MGMT404

**Senior Project / 4**
(a) all of: COMM491; COMM492

**General Studies / 38**
Coursework taken as part of a qualifying associate degree that is transferable and not applied to the Genreal Education course area is applied to this area. Additional coursework at DeVry may be required in order to satisfy the General Studies credit-hour requirement and may increase program length and tuition obligations unless students submit official transcripts from other institutions indicating they have additional qualifying transfer credit that can be applied to the General Studies course area.

**Electives[10,12] / 3**
(a) Through academic advising, electives are chosen from courses substantially different from those used to meet any other graduation requirement. They may be selected from courses listed in this catalog, provided prerequisites are satisfied. Electives may be used to satisfy prerequisites for courses in other course areas, to meet specialized requirements or to pursue a special interest. Qualifying prior college coursework not meeting other program requirements may be applied toward the elective hours.

**Communication Design Management Concentration / 27**
Students should ensure that prerequisites for the chosen concentration have been met through selections in other course areas.
(a) all of: CDM300; CDM340; CDM360; CDM410; CDM420; CDM430; CDM440

12 Arkansas residents enrolled as online students must take an additional course from group (b) in the General Education course area as part of this requirement.

# Justice Administration Program

The Justice Administration program provides students with a background in various aspects of the criminal justice system and prepares students to adapt to change in this dynamic field. The program is designed to meet the education needs of individuals seeking to begin careers in criminal justice, as well as those currently working in the field or with related experience. Coursework is intended to augment government-required training programs.

The program offers tracks as shown in the following program outline. Students who have not chosen an area of specialization may begin the program in "Undeclared" status; however, they must select a track by the time they have earned 45 semester-credit hours toward their degree.

*Note: Applicants for jobs in the justice administration field may be subject to pre-employment screenings such as, but not limited to, criminal background checks, drug and/or alcohol testing, physical and/or psychological examinations and credit checks. Unsatisfactory screening results may result in denial of an offer for a position in the justice administration field.*

## Program Objectives
The program is designed to produce graduates who are able to:

- Analyze issues confronting criminal justice systems and recommend policies, procedures and/or practices to address them.
- Apply ethical, legal and regulatory principles in evaluating policies and procedures and in determining a course of action in the practice of criminal justice.
- Demonstrate project management skills and work effectively in teams.
- Communicate effectively both orally and in writing.
- Apply information literacy and problem-solving skills that support lifelong personal and professional development.

## Program Details
**Degree:** Bachelor of Science in Justice Administration

**Semesters:** 8 full time

**Minimum credit hours required for graduation:** 122[1]

**Normal time to complete:** 4 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see *Course Loads*)

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support advisor or academic advisor for more information.

*Note: All students should see* General Notes *at the beginning of* Colleges & Programs of Study.

1   126 for Arkansas residents enrolled as online students

**For comprehensive consumer information, visit devry.edu/bja**

## Program Outline
Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Additional information is found in *Course Offerings* and in *Course Descriptions*.

### Course Area / Minimum Credit Hours

**Communication Skills / 15**
(a) all of: ENGL112; ENGL135
(b) one of: ENGL216; ENGL219; ENGL227
(c) one of: ENGL230; SPCH275; SPCH277; SPCH279

**Humanities[2] / 9**
(a) one of: HUMN303[3]; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of[4]: ETHC445; HIST405; HIST410; HIST412; HIST415; HIST417; PHIL447; PHIL449; RELI448
(c) LAS432

**Social Sciences[2] / 9**
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of[5]: PSYC290[2], PSYC305[6]; PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of[7,8]: ECON312; LAWS310; LAWS420; POLI330; POLI410

**Personal and Professional Development / 5**
(a) all of: CARD405; COLL148

2   Minnesota residents enrolled as online students, and students enrolled at a Minnesota location, must take the following to meet the 18-semester-credit-hour combined requirement for Humanities and Social Sciences:
Humanities / 6
(a) one of: HUMN303; HUMN451; LTRE421; LTRE422; LTRE424; LTRE427; LTRE428
(b) one of: ETHC445; PHIL447; PHIL449
Social Sciences / 12
(a) one of: PSYC110; SOCS185; SOCS190
(b) one of: PSYC290; PSYC305; PSYC307 (assigned to certain students enrolled as online students); PSYC315; SOCS315; SOCS325; SOCS335; SOCS350
(c) one of: ECON312; HIST405; HIST410; HIST412; HIST415; HIST417; LAWS310; LAWS420; POLI330; POLI410; RELI448
(d) LAS432
3   Arkansas residents enrolled as online students must take this course.
4   Arkansas residents enrolled as online students must take ETHC232 in lieu of this requirement.
5   Certain online students are assigned PSYC307 in lieu of this requirement.
6   All students selecting the Corrections track must take PSYC305 as part of the track and must select a different Social Sciences course from group (b). Corrections track students who are assigned PSYC307 in lieu of the Social Sciences group (b) requirement apply PSYC307 to the track and must also select a different course from Social Sciences group (b).
7   Arkansas residents enrolled as online students must take HIST225 in lieu of this requirement.
8   Students enrolled at a Nevada location must take POLI332 as part of this requirement.

# **Justice Administration** Program (continued)

| Course Area / Minimum Credit Hours |
|---|

**Mathematics and Natural Sciences / 12[9]**
(a) all of: MATH114; MATH221
(b) one of[10]: BIOS105; BIOS135; BIOS140; CHEM120;
PHYS216; SCI204; SCI214; SCI224; SCI228; SCI230

**Business / 4**
(a) MGMT404

**Computing / 2**
(a) COMP100

**Justice Administration Foundation / 42**
(a) all of: JADM100; JADM110; JADM120; JADM200;
JADM210; JADM220; JADM230; JADM240; JADM300;
JADM310; JADM320; JADM330; JADM340; JADM350

**Technical Alternate – one of the following is selected / 6**
(a) all of: JADM250; JADM260
(b) all of: JADM270; JADM280

| Course Area / Minimum Credit Hours |
|---|

**Senior Project / 4**
(a) all of: JADM490; JADM494

**Track – one of the following is selected / 15**

*Corrections*
(a) all of: JADM430; JADM435; JADM445;
JADM450; PSYC305[5]

*Digital Forensics*
(a) all of: CCSI410; CCSI460; CIS206;
CIS246; SEC280

*Emergency Management*
(a) all of: JADM455; JADM460;
JADM465; JADM470
(b) one of: HUMS480; JADM475

*Homeland Security Studies*
(a) all of: JADM480; JADM485; POLI457
(b) two of: HUMS480; INTP491
and INTP492; JADM423; JADM455;
JADM460; JADM470

*Policing[11, 12]*
(a) all of: JADM400; JADM403;
JADM407; JADM410
(b) one of: JADM413; JADM417;
JADM420; JADM423; JADM427

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9   16 for Arkansas residents enrolled as online students
10 Arkansas residents enrolled as online students must
take two courses from this group.

11 Michigan residents enrolled as online students, and students enrolled at a
Michigan location, should note that the Michigan Commission on Law Enforce-
ment Standards (MCOLES) requires that any applicant for a certification in law
enforcement for the State of Michigan must attend a state-certified MCOLES
police academy. DeVry University does not operate such an academy. Students
are advised that entry to any MCOLES police academy is restricted by separate
admission examinations, and the selection process is highly competitive.
Applicants to any MCOLES police academy are expected to meet State of
Michigan standards, including no felony convictions, and vision and hearing
minimums. Completion of this program does not guarantee admission to any
MCOLES police academy.
12 Minnesota residents enrolled as online students, and students enrolled at a
Minnesota location, should note that the Policing track does not qualify gradu-
ates to become police officers in Minnesota, nor to sit for the Peace Officer
Licensing Exam in Minnesota.

# **Course** Offerings

Following is a list of courses from which students may choose, provided prerequisites are met. Courses are presented alphabetically, by course designator. To learn more about each course, see *Course Descriptions*.

## Accounting

| | |
|---|---|
| ACCT212 | Financial Accounting |
| ACCT216 | Accounting Theory and Applications |
| ACCT217 | Principles of Ethics and Fraud |
| ACCT224 | Introduction to Individual Income Taxation |
| ACCT244 | Introduction to Cost Accounting |
| ACCT251 | Introduction to Accounting Information Systems |
| ACCT301 | Essentials of Accounting |
| ACCT304 | Intermediate Accounting I |
| ACCT305 | Intermediate Accounting II |
| ACCT312 | Intermediate Accounting III |
| ACCT324 | Federal Tax Accounting I |
| ACCT346 | Managerial Accounting |
| ACCT349 | Advanced Cost Accounting |
| ACCT405 | Advanced Accounting |
| ACCT424 | Federal Tax Accounting II |
| ACCT427 | International Accounting |
| ACCT429 | Federal Income Taxation |
| ACCT434 | Advanced Cost Management |
| ACCT439 | Professional Ethics for Accountants |
| ACCT440 | Accounting Research |
| ACCT444 | Auditing |
| ACCT451 | Accounting Information Systems with Lab |
| ACCT452 | Governmental and Not-for-Profit Accounting |
| ACCT461 | Accounting Senior Project |

## Business Intelligence and Analytics Management

| | |
|---|---|
| BIAM300 | Managerial Applications of Business Analytics |
| BIAM400 | Applied Business Analytics |
| BIAM410 | Database Concepts in Business Intelligence |
| BIAM420 | Introduction to Internet Analytics |

## Biosciences

| | |
|---|---|
| BIOS105 | Fundamentals of Human Anatomy and Physiology with Lab |
| BIOS135 | Foundations in Biology and Chemistry with Lab |
| BIOS140 | Biology with Lab |
| BIOS195 | Anatomy and Physiology for Health Sciences with Lab |
| BIOS242 | Fundamentals of Microbiology with Lab |
| BIOS245 | Cell Biology with Lab |
| BIOS251 | Anatomy and Physiology I with Lab |
| BIOS252 | Anatomy and Physiology II with Lab |
| BIOS255 | Anatomy and Physiology III with Lab |
| BIOS256 | Anatomy and Physiology IV with Lab |
| BIOS260 | Fundamentals of Pathophysiology |
| BIOS271 | Microbiology and Chemistry I with Lab |
| BIOS272 | Microbiology and Chemistry II with Lab |
| BIOS275 | Pharmacology and Medical Treatment |
| BIOS380 | Introduction to Biochemistry with Lab |
| BIOS390 | Molecular Biology with Lab |
| BIOS480 | Immunology |

## Business Information Systems

| | |
|---|---|
| BIS155 | Data Analysis with Spreadsheets with Lab |
| BIS245 | Database Essentials for Business with Lab |
| BIS261 | Requirements Gathering and Testing with Lab |
| BIS300 | Enterprise Business Information Systems |
| BIS311 | Object-Oriented Programming for Business with Lab |
| BIS325 | Principles of Web Development with Lab |
| BIS345 | Data Analysis for Decision-Making with Lab |
| BIS360 | Systems Implementation and Training with Lab |
| BIS445 | Business Intelligence and Data Analysis with Lab |
| BIS450 | Web-Based Solutions with Lab |

## Biomedical Engineering Technology

| | |
|---|---|
| BMET313 | Biomedical Equipment and Instrumentation I with Lab |
| BMET323 | Biomedical Equipment and Instrumentation II with Lab |
| BMET433 | Medical Imaging Technology with Lab |
| BMET436 | Telemedicine and Medical Informatics with Lab |
| BMET453 | Biomedical Engineering Technology Professional Topics |
| BMET454 | Biomedical Engineering Technology Internship |

## Business

| | |
|---|---|
| BUSN115 | Introduction to Business and Technology |
| BUSN258 | Customer Relations |
| BUSN278 | Budgeting and Forecasting |
| BUSN315 | Contemporary Business |
| BUSN319 | Marketing |
| BUSN350 | Business Analysis |
| BUSN369 | International Business |
| BUSN379 | Finance |
| BUSN380 | Personal Financial Planning |
| BUSN412 | Business Policy |
| BUSN420 | Business Law |
| BUSN460 | Senior Project |
| BUSN462 | Senior Project I |
| BUSN463 | Senior Project II |

## Career Development

| | |
|---|---|
| CARD205 | Career Development |
| CARD405 | Career Development |
| CARD415 | Career Development Strategies |

## Computer Forensics

| | |
|---|---|
| CCSI330 | Digital Crime: Evidence and Procedure |
| CCSI360 | Computer Ethics |
| CCSI410 | Digital Forensics I with Lab |
| CCSI460 | Digital Forensics II with Lab |

### Communication Design Management

| | |
|---|---|
| CDM300 | Verbal and Visual Rhetoric |
| CDM340 | Perspectives on Technology |
| CDM360 | Graphic Design and Delivery |
| CDM410 | Information Content and Management |
| CDM420 | Organizational Communication |
| CDM430 | Communicating in a Multimedia Environment |
| CDM440 | Interactive Design in a Multimedia Environment |

### Engineering Technology and Information Sciences

| | |
|---|---|
| CEIS100 | Introduction to Engineering Technology and Information Sciences |
| CEIS210 | Introduction to Cryptographic Methods |

### Chemistry

| | |
|---|---|
| CHEM120 | Introduction to General, Organic and Biological Chemistry with Lab |
| CHEM130 | General Chemistry I with Lab |
| CHEM140 | General Chemistry II with Lab |
| CHEM225 | Fundamentals of Organic Chemistry with Lab |

### Computer Information Systems

| | |
|---|---|
| CIS115 | Logic and Design |
| CIS170A | Programming with Lab |
| CIS170B | Programming with Lab |
| CIS170C | Programming with Lab |
| CIS206 | Architecture and Operating Systems with Lab |
| CIS246 | Connectivity with Lab |
| CIS247A | Object-Oriented Programming with Lab |
| CIS247B | Object-Oriented Programming with Lab |
| CIS247C | Object-Oriented Programming with Lab |
| CIS321 | Structured Analysis and Design |
| CIS336 | Introduction to Database with Lab |
| CIS339 | Object-Oriented Analysis and Design |
| CIS355A | Business Application Programming with Lab |
| CIS355B | Business Application Programming with Lab |
| CIS363A | Web Interface Design with Lab |
| CIS363B | Web Interface Design with Lab |
| CIS407A | Web Application Development with Lab |
| CIS407B | Web Application Development with Lab |
| CIS470 | Computer Information Systems Senior Project |
| CIS474 | Computer Information Systems Senior Project I |
| CIS477 | Computer Information Systems Senior Project II |

### Clinical Laboratory Science

| | |
|---|---|
| CLS100 | Laboratory Science Career Entry Exploration and Phlebotomy |
| CLS210 | Clinical Chemistry I with Lab |
| CLS225 | Clinical Microbiology I with Lab |
| CLS230 | Hematology and Hemostasis I with Lab |
| CLS240 | Immunohematology I with Lab |
| CLS299 | Introduction to Professional Practice for the Clinical Laboratory |
| CLS350 | Clinical Practicum I |
| CLS351 | Clinical Practicum II |
| CLS399 | Clinical Laboratory Operations and Management |
| CLS408 | Clinical Immunology with Lab |
| CLS410 | Clinical Chemistry II |
| CLS420 | Clinical Microbiology II |
| CLS430 | Hematology and Hemostasis II |
| CLS440 | Immunohematology II |
| CLS450 | Clinical Practicum III |
| CLS451 | Clinical Practicum IV |
| CLS499 | Professional Education and Research |

### Critical Thinking

| | |
|---|---|
| COLL148 | Critical Thinking and Problem-Solving |

### Communications

| | |
|---|---|
| COMM301 | Communication Theory in Practice |
| COMM491 | Senior Project I |
| COMM492 | Senior Project II |

### Computer Applications and Programming

| | |
|---|---|
| COMP100 | Computer Applications for Business with Lab |
| COMP122 | Structured Programming with Lab |
| COMP129 | PC Hardware and Software with Lab |
| COMP220 | Object-Oriented Programming with Lab |
| COMP230 | Introduction to Scripting and Database with Lab |
| COMP274 | Application Programming with Lab |

### Criminal Justice

| | |
|---|---|
| CRMJ300 | Criminal Justice |
| CRMJ310 | Law Enforcement |
| CRMJ315 | Juvenile Justice |
| CRMJ320 | Theory and Practice of Corrections |
| CRMJ400 | Criminology |
| CRMJ410 | Criminal Law and Procedure |
| CRMJ415 | Deviant Behavior |
| CRMJ420 | Criminal Investigation |
| CRMJ425 | Ethics and Criminal Justice |
| CRMJ430 | Crime Scene Investigation |
| CRMJ450 | Terrorism Investigation |

### Database Management

| | |
|---|---|
| DBM405A | Advanced Database with Lab |
| DBM405B | Advanced Database with Lab |
| DBM438 | Database Administration with Lab |
| DBM449 | Advanced Topics in Database with Lab |

### Digital Home Technology Integration

| | |
|---|---|
| DHTI202 | Digital Home Technology Integration I with Lab |
| DHTI204 | Digital Home Technology Integration II with Lab |

### Electronics and Computer Engineering Technology

| | |
|---|---|
| ECET105 | Digital Fundamentals with Lab |
| ECET110 | Electronic Circuits and Devices I with Lab |
| ECET210 | Electronic Circuits and Devices II with Lab |
| ECET220 | Electronic Circuits and Devices III with Lab |
| ECET230 | Digital Circuits and Systems with Lab |
| ECET299 | Technology Integration I |
| ECET301 | Conservation Principles in Engineering and Technology with Lab |
| ECET310 | Communications Systems with Lab |

| | |
|---|---|
| ECET330 | Microprocessor Architecture with Lab |
| ECET340 | Microprocessor Interfacing with Lab |
| ECET345 | Signals and Systems with Lab |
| ECET350 | Signal Processing with Lab |
| ECET360 | Operating Systems with Lab |
| ECET365 | Embedded Microprocessor Systems with Lab |
| ECET370 | Data Structures and Algorithms with Lab |
| ECET375 | Data Communications and Networking with Lab |
| ECET380 | Wireless Communications with Lab |
| ECET390 | Product Development |
| ECET402 | Mechatronics with Lab |
| ECET405 | Industrial Process Control Systems with Lab |
| ECET410 | Control Systems Analysis and Design with Lab |
| ECET420 | Real-Time Operating System Design with Lab |
| ECET425 | Broadband Communications with Lab |
| ECET430 | Advanced Digital Signal Processing with Lab |
| ECET450 | Database System Design with Lab |
| ECET460 | Network Security with Lab |
| ECET465 | Advanced Networks with Lab |
| ECET490 | Distributed Computing System Design with Lab |
| ECET492L | Senior Project Development Lab I |
| ECET493L | Senior Project Development Lab II |
| ECET494L | Senior Project Development Lab III |
| ECET495 | Specialized Technologies with Lab |
| ECET497 | Technology Integration II |

### Electronic Commerce

| | |
|---|---|
| ECOM340 | Internet Marketing |

### Economics

| | |
|---|---|
| ECON312 | Principles of Economics |
| ECON315 | Microeconomics |
| ECON410 | Environmental Economics |

### Electronics and Computer Technology

| | |
|---|---|
| ECT109 | Introduction to Programming with Lab |
| ECT114 | Digital Fundamentals with Lab |
| ECT122 | Electronic Systems I with Lab |
| ECT125 | Electronic Systems II with Lab |
| ECT246 | Electronic Systems III with Lab |
| ECT253 | Achievement Assessment |
| ECT263 | Communications Systems with Lab |
| ECT264 | Sensors and Instrumentation with Lab |
| ECT266 | Wireless Communication Systems with Lab |
| ECT270 | Semiconductor Manufacturing with Lab |
| ECT274 | Embedded Microprocessor Applications with Lab |
| ECT284 | Automation and Control Systems with Lab |
| ECT295L | Applied Project Lab |

### English Composition

| | |
|---|---|
| ENGL062 | Introduction to Reading and Writing |
| ENGL108 | Composition with Lab |
| ENGL112 | Composition |
| ENGL135 | Advanced Composition |
| ENGL206 | Technical Communication |
| ENGL216 | Technical Writing |
| ENGL219 | Journalism |

| | |
|---|---|
| ENGL220H | Creative Writing – Honors Option |
| ENGL227 | Professional Writing |
| ENGL230 | Professional Communication |

### Enterprise Computing

| | |
|---|---|
| ESYS306 | Enterprise System Architecture and Administration with Lab |
| ESYS410 | Enterprise System Application Development I with Lab |
| ESYS430 | Enterprise System Application Development II with Lab |

### Ethics

| | |
|---|---|
| ETHC232 | Ethical and Legal Issues in the Professions |
| ETHC445 | Principles of Ethics |

### Finance

| | |
|---|---|
| FIN351 | Investment Fundamentals and Security Analysis |
| FIN364 | Money and Banking |
| FIN382 | Financial Statement Analysis |
| FIN385 | Fixed Income Securities and Credit Analysis |

### Graphic and Multimedia Design

| | |
|---|---|
| GMD311 | Web Video Fundamentals with Lab |
| GMD341 | Advanced Imaging with Lab |
| GMD371 | Advanced Illustration with Lab |
| GMD411 | 3D Model Design and Construction with Lab |
| GMD451 | Animation with Lab |

### Global Supply Chain Management

| | |
|---|---|
| GSCM206 | Managing Operations Across the Supply Chain |
| GSCM209 | Supply Chain Management Decision Support Tools and Applications |
| GSCM326 | Total Quality Management |
| GSCM330 | Strategic Supply and Master Planning |
| GSCM434 | Supply Chain Logistics, Distribution and Warehousing |
| GSCM440 | Supply Chain Procurement Management and Sourcing Strategy |
| GSCM460 | Global Issues in Supply Chain Management |

### Game and Simulation Programming

| | |
|---|---|
| GSP111 | Introduction to Game and Simulation Programming |
| GSP115 | Introduction to Programming in C++ with Lab |
| GSP125 | Intermediate Programming in C++/OOP with Lab |
| GSP215 | Computer Systems for Programmers with Lab |
| GSP221 | Math Programming for Games |
| GSP240 | Practical Game Design with Lab |
| GSP261 | Introduction to Computer Graphics Modeling and Programming with Lab |
| GSP281 | Simulation Design and Programming with Lab |
| GSP295 | Data Structures with Lab |
| GSP315 | Artificial Intelligence for Games and Simulations with Lab |
| GSP321 | Physics Engine Development |
| GSP340 | Modification and Level Design with Lab |
| GSP361 | Applied Development Project I |
| GSP362 | Applied Development Project II |

| GSP381 | Computer Graphics Programming I with Lab |
| GSP390 | Computer Graphics Programming II with Lab |
| GSP410 | Software Engineering for Game Programming with Lab |
| GSP420 | Game Engine Design and Integration with Lab |
| GSP465 | Multiplayer Networking with Lab |
| GSP470 | Multiplayer Online Game Programming with Lab |
| GSP475 | Emerging Technologies with Lab |
| GSP480 | Advanced Artificial Intelligence for Game and Simulation Design with Lab |
| GSP494 | Senior Project I |
| GSP497 | Senior Project II |

## Health Information Management

| HIM335 | Health Information Systems and Networks with Lab |
| HIM355 | Advanced Classification Systems and Management with Lab |
| HIM370 | Healthcare Data Security and Privacy |
| HIM410 | Health Information Financial Management |
| HIM420 | Healthcare Total Quality Management |
| HIM435 | Management of Health Information Functions and Services |
| HIM460 | Health Information Management Practicum |

## Health Information Systems

| HIS410 | Health Information Systems I |
| HIS420 | Health Information Systems II |

## History

| HIST225 | United States History |
| HIST405 | United States History |
| HIST410 | Contemporary History |
| HIST412 | Post-1945 History |
| HIST415 | Vietnam and the 20th Century Experience |
| HIST417 | Emergence of the Modern Era |

## Health Information Technology

| HIT111 | Basic Medical Terminology |
| HIT120 | Introduction to Health Services and Information Systems |
| HIT141 | Health Information Processes with Lab |
| HIT170 | Health Information Fundamentals Practicum |
| HIT203 | International Classification of Diseases Coding I with Lab |
| HIT205 | International Classification of Diseases Coding II with Lab |
| HIT211 | Current Procedural Terminology Coding with Lab |
| HIT220 | Legal and Regulatory Issues in Health Information |
| HIT226 | Data Applications and Healthcare Quality with Lab |
| HIT230 | Health Insurance and Reimbursement |
| HIT272 | Health Information Practicum Capstone |
| HIT272L | RHIT Certification Preparation |

## Hospitality Management

| HOSP310 | Introduction to Hospitality Management |
| HOSP320 | Foundations of Hotel Management |
| HOSP330 | Meetings and Events Management |
| HOSP410 | Restaurant Management |
| HOSP420 | Food Safety and Sanitation |
| HOSP440 | Casino Management |
| HOSP450 | Tourism Management |

## Human Resource Management

| HRM320 | Employment Law |
| HRM330 | Labor Relations |
| HRM340 | Human Resource Information Systems |
| HRM410 | Strategic Staffing |
| HRM420 | Training and Development |
| HRM430 | Compensation and Benefits |

## Health Services Management

| HSM310 | Introduction to Health Services Management |
| HSM320 | Health Rights and Responsibilities |
| HSM330 | Health Services Information Systems |
| HSM340 | Health Services Finance |
| HSM410 | Healthcare Policy |
| HSM420 | Managed Care and Health Insurance |
| HSM430 | Planning and Marketing for Health Services Organizations |

## Humanities

| HUMN303 | Introduction to the Humanities |
| HUMN451 | Contemporary Fine Arts |
| HUMN460SA | International Cultural Explorations |

## Human Services

| HUMS480 | Crisis Intervention |

## Internship

| INTP491 | Internship I |
| INTP492 | Internship II |

## Justice Administration

| JADM100 | Introduction to Criminal Justice |
| JADM110 | Introduction to Criminology |
| JADM120 | Introduction to Policing |
| JADM200 | Introduction to Criminal Law |
| JADM210 | Introduction to Corrections |
| JADM220 | Introduction to Ethics and Criminal Justice |
| JADM230 | Introduction to Juvenile Justice |
| JADM240 | Introduction to the Criminal Courts |
| JADM250 | Police Report Writing |
| JADM260 | Community Policing |
| JADM270 | Correctional Counseling |
| JADM280 | Probation and Parole |
| JADM300 | Multiculturalism in Criminal Justice Systems |
| JADM310 | Drugs and Society |
| JADM320 | Criminal Procedure |
| JADM330 | Victimology |
| JADM340 | Criminal Evidence |
| JADM350 | Research Methods in Criminal Justice |
| JADM400 | Interviewing and Interrogation |
| JADM403 | Cybercrime |
| JADM407 | Criminal Investigation |

| | |
|---|---|
| JADM410 | Issues in Policing |
| JADM413 | Police Administration |
| JADM417 | Organized Crime |
| JADM420 | White Collar Crime |
| JADM423 | Terrorism Investigation |
| JADM427 | Crime Scene Investigation |
| JADM430 | Correctional Administration |
| JADM435 | Jails |
| JADM445 | Deviant Behavior |
| JADM450 | Issues in Corrections |
| JADM455 | Emergency Management |
| JADM460 | Disaster Response |
| JADM465 | Emergency Planning |
| JADM470 | Terrorism in Emergency Management |
| JADM475 | Technology in Emergency Management |
| JADM480 | Homeland Security and Terrorism |
| JADM485 | Security Intelligence Analysis |
| JADM490 | Senior Project I |
| JADM494 | Senior Project II |

### Liberal Arts and Sciences

| | |
|---|---|
| LAS432 | Technology, Society, and Culture |

### Legal Issues

| | |
|---|---|
| LAWS310 | The Legal Environment |
| LAWS420 | Legal and Ethical Issues |

### Literature

| | |
|---|---|
| LTRE421 | Studies in Literature |
| LTRE422 | Film and Literature |
| LTRE424 | Science Fiction |
| LTRE427 | Studies in Poetry |
| LTRE428 | Dramatic Literature |

### Mathematics

| | |
|---|---|
| MATH062 | Beginning Algebra |
| MATH103 | Beginning Algebra |
| MATH104 | Algebra for College Students |
| MATH114 | Algebra for College Students |
| MATH118 | Algebra for College Students |
| MATH190 | Pre-Calculus |
| MATH211 | Statistics for Everyday Life |
| MATH221 | Statistics for Decision-Making |
| MATH233 | Discrete Mathematics |
| MATH260 | Applied Calculus I |
| MATH270 | Applied Calculus II |
| MATH325 | Healthcare Statistics and Research |
| MATH450 | Advanced Engineering Mathematics I |
| MATH451 | Advanced Engineering Mathematics II |

### Multimedia Design and Development

| | |
|---|---|
| MDD310 | Multimedia Standards |
| MDD340 | Business of Graphics |
| MDD410 | Emerging Multimedia Technologies |
| MDD460 | Senior Project I |
| MDD461 | Senior Project II |

### Management

| | |
|---|---|
| MGMT303 | Principles of Management |
| MGMT330 | Business Communication |
| MGMT340 | Business Systems Analysis |
| MGMT404 | Project Management |
| MGMT408 | Management of Technology Resources |
| MGMT410 | Human Resource Management |

### Marketing

| | |
|---|---|
| MKTG310 | Consumer Behavior |
| MKTG320 | Market Research |
| MKTG410 | Advertising and Public Relations |
| MKTG425 | Personal Selling and Sales Management |
| MKTG430 | International Marketing |
| MKTG440 | Sustainability Marketing |

### Neurodiagnostic Technology

| | |
|---|---|
| NDT155 | Neuroelectric Theory and Instrumentation I |
| NDT205 | Neuroelectric Theory and Instrumentation II |
| NDT221 | Functional Neuroanatomy A |
| NDT222 | Functional Neuroanatomy B |
| NDT241 | Neurophysiology A |
| NDT242 | Neurophysiology B |
| NDT256 | Clinical Practicum IA |
| NDT257 | Clinical Practicum IB |
| NDT266 | Correlative Neurology IA |
| NDT267 | Correlative Neurology IB |
| NDT276 | Clinical Practicum IIA |
| NDT277 | Clinical Practicum IIB |
| NDT286 | Correlative Neurology IIA |
| NDT287 | Correlative Neurology IIB |
| NDT296 | Clinical Practicum IIIA |
| NDT297 | Clinical Practicum IIIB |

### Networks

| | |
|---|---|
| NETW202 | Introduction to Networking with Lab |
| NETW203 | Cisco Networking Academy – Introduction to Networking with Lab |
| NETW204 | Introduction to Routing with Lab |
| NETW205 | Cisco Networking Academy – Introduction to Routing with Lab |
| NETW206 | Introduction to Switching with Lab |
| NETW207 | Cisco Networking Academy – Introduction to Switching with Lab |
| NETW208 | Introduction to WAN Technologies with Lab |
| NETW209 | Cisco Networking Academy – Introduction to WAN Technologies with Lab |
| NETW230 | Network Operating Systems – Windows, with Lab |
| NETW240 | Network Operating Systems – UNIX, with Lab |
| NETW250 | Voice/VoIP Administration with Lab |
| NETW310 | Wired, Optical and Wireless Communications with Lab |
| NETW320 | Converged Networks with Lab |
| NETW360 | Wireless Technologies and Services with Lab |
| NETW410 | Enterprise Network Design with Lab |
| NETW411 | Information Security and Mobile Devices |
| NETW420 | Enterprise Network Management with Lab |

| NETW430 | Information Storage and Management with Lab |
| NETW471 | Advanced Topics in Networking |
| NETW490 | Senior Project with Lab |
| NETW494 | Senior Project I with Lab |
| NETW497 | Senior Project II with Lab |

### Philosophy

| PHIL347 | Critical Reasoning |
| PHIL447 | Logic and Critical Thinking |
| PHIL449 | Philosophy of Science |

### Physics

| PHYS204 | Applied Physics with Lab |
| PHYS216 | Physics with Lab |
| PHYS310 | College Physics I with Lab |
| PHYS320 | College Physics II with Lab |

### Political Science

| POLI330 | Political Science |
| POLI332 | Political Science |
| POLI410 | Social Movements |
| POLI457 | International Relations |

### Project Management

| PROJ330 | Human Resources and Communication in Projects |
| PROJ410 | Contracts and Procurement |
| PROJ420 | Project Risk Management |
| PROJ430 | Advanced Project Management |

### Psychology

| PSYC110 | Psychology |
| PSYC290 | Lifespan Development |
| PSYC305 | Motivation and Leadership |
| PSYC307 | Motivation and Leadership |
| PSYC315 | Social Psychology |

### Renewable Energy Engineering Technology

| REET300 | Introduction to Alternative Energy Technologies with Lab |
| REET420 | Power Electronics and Alternative Energy Applications with Lab |
| REET425 | Electric Machines and Power Systems with Lab |

### Religion

| RELI448 | Comparative Religions |

### Systems Analysis and Integration

| SAI430 | System Integration with Lab |
| SAI440 | Advanced Topics in Enterprise Analysis |
| SAI460 | Organizational Process Analysis |

### Small Business Management and Entrepreneurship

| SBE310 | Small Business Management and Entrepreneurship |
| SBE330 | Creativity, Innovation and New Product Development |
| SBE420 | Operational Issues in Small Business Management |
| SBE430 | E-Commerce for Small Business |
| SBE440 | Business Plan Writing for Small Businesses and Entrepreneurs |

### Sciences

| SCI200 | Environmental Science with Lab |
| SCI204 | Environmental Science with Lab |
| SCI214 | Integrated Science with Lab |
| SCI224 | Astronomy with Lab |
| SCI228 | Nutrition, Health and Wellness with Lab |
| SCI230 | Foundations of Earth Sciences with Lab |

### Information Systems Security

| SEC280 | Principles of Information Systems Security |
| SEC311 | Ethical Hacking |
| SEC321 | Network Security Testing with Lab |
| SEC340 | Business Continuity |
| SEC360 | Data Privacy and Security |
| SEC370 | Web Security |
| SEC440 | Information Systems Security Planning and Audit |
| SEC450 | Advanced Network Security with Lab |
| SEC453 | Cisco Networking Academy – Advanced Network Security with Lab |

### Security Management

| SEC310 | Principles and Theory of Security Management |
| SEC320 | Risk Analysis, Loss Prevention and Emergency Planning |
| SEC330 | Security Administration |
| SEC410 | Physical Security and Access Control |
| SEC415 | Introduction to Information Security |
| SEC420 | Evaluation of Security Programs |

### Social Sciences

| SOCS185 | Culture and Society |
| SOCS190 | Cultural Anthropology |
| SOCS315 | Marriage and Family |
| SOCS325 | Environmental Sociology |
| SOCS335 | Workplace Culture and Communication |
| SOCS350 | Cultural Diversity in the Professions |

### Speech

| SPCH275 | Public Speaking |
| SPCH277 | Interpersonal Communication |
| SPCH279 | Debate and Critical Thinking |

### Sustainability Management

| SUST310 | Renewable Energy: Science, Technology and Management |
| SUST320 | Sustainability Management and Administration |
| SUST410 | Sustainability Operations |

### Technical Communication

| TC160 | Perspectives on Technology |
| TC220 | Rhetorical Strategies for Technical Communication |
| TC310 | Document Design |
| TC320 | Advanced Technical Writing and Editing |
| TC360 | Visual Design |
| TC420 | Marketing and Corporate Communications |
| TC430 | Proposal and Grant Writing |
| TC440 | Web Design |
| TC450 | Scientific and Medical Writing |

## Web Game Programming

| | |
|---|---|
| WBG310 | Interactive Web Page Scripting with Lab |
| WBG340 | Programming Multimedia for the Web with Lab |
| WBG370 | Game Development with Lab |
| WBG410 | Dynamic Website Development and Database Integration with Lab |
| WBG450 | Multiplayer Online Game Development with Lab |

## Web Design and Development

| | |
|---|---|
| WDD420 | Web Accessibility with Lab |

## Web Development and Administration

| | |
|---|---|
| WEB320 | Principles of E-Commerce |
| WEB375 | Web Architecture with Lab |
| WEB460 | Advanced Web Application Development with Lab |

## Web Graphic Design

| | |
|---|---|
| WGD201 | Visual Design Fundamentals |
| WGD205 | Advanced Design and Rapid Visualization |
| WGD210 | Digital Imaging Fundamentals |
| WGD229 | Information Design |
| WGD232 | Web Design |
| WGD235 | Web Animation |
| WGD242 | Advanced Web Design |
| WGD251 | Responsive Web Design |
| WGD260 | Media Portfolio |

# **Course** Descriptions

Following are descriptions of courses from which students may choose, provided prerequisites are met. To learn which courses apply to the chosen curriculum, see *Colleges & Programs of Study*, which provides details on required courses and alternate choices.

Course descriptions are presented alphabetically, by course designator. Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded for the course.

DeVry's diverse course offerings are specifically **designed and updated with students' career success in mind.**

## ACCOUNTING

### ACCT212 Financial Accounting*^
This course focuses on ways in which financial statements reflect business operations and emphasizes use of financial statements in the decision-making process. The course encompasses all business forms and various sectors such as merchandising, manufacturing and services. Students make extensive use of spreadsheet applications to analyze accounting records and financial statements. *Prerequisites: COMP100 and MATH114 / 4-4*

### ACCT216 Accounting Theory and Applications*
Students in this course apply knowledge of the financial accounting process in accordance with generally accepted accounting principles (GAAP) to develop skills preparing them for real-world applications. Students identify and correct errors, determine and develop adjusting entries to ensure correct financial reports, and demonstrate understanding and application of computational skills to determine correct payroll, inventory valuation and depreciation expense. *Prerequisite: ACCT212 / 3-3*

### ACCT217 Principles of Ethics and Fraud*
In this course students explore ethical issues facing business and the accounting profession. Topics include ethical reasoning, integrity, objectivity, independence, core values, ethical behavior and ethical decision-making. In addition, students review internal controls, fraud recognition, responses to fraud and professional issues in the field. Students apply concepts and theories to relevant case studies. *Prerequisite: ACCT216 / 3-3*

### ACCT224 Introduction to Individual Income Taxation*
This course covers federal income tax concepts, laws and filing requirements applied to preparation of individual and sole proprietorship returns. Topics include factors that influence income tax laws, individual tax formula, employee/employer compensation arrangements, investment and rental activities, wealth transfer, personal activities, business income or loss, and property transactions. *Prerequisite: ACCT212 / 3-3*

### ACCT244 Introduction to Cost Accounting*
This course addresses product-cost determination and cost-control elements as applied to basic job order, process and standard cost systems. Manufacturing costs and using relevant accounting data to improve decision-making are also emphasized. Topics prepare students for presenting information to management as part of the decision-making process. Activity-based costing, pricing strategies and profitability are addressed. *Prerequisite: ACCT216 / 3-3*

### ACCT251 Introduction to Accounting Information Systems*
Students in this course examine use of an accounting information system. The general ledger, appropriate subsidiary ledgers and each transaction process cycle are discussed and reviewed in detail. Students apply their accounting knowledge and use accounting software to generate financial statements. *Prerequisite: ACCT216 / 3-3*

### ACCT301 Essentials of Accounting*^
This course is intended for students in technology-intensive programs, where understanding basic principles of finance and managerial accounting is essential to successful contribution to organizational achievement. Students are introduced to the accounting system, financial statements, and essential elements of cost and managerial accounting within the context of management decision-making. Capital investment analysis and other budgeting methods are studied in relation to goal attainment and organizational success. The effect of activities in the functional areas of business on organizations' financial viability is emphasized. *Prerequisite: BUSN115 / 4-4*

### ACCT304 Intermediate Accounting I*^
This course expands on topics covered in ACCT212 and presents them within a conceptual framework determined by generally accepted accounting principles. Financial accounting functions and theory, and recognition and measurement of assets, are covered. *Prerequisite: ACCT212 / 4-4*

### ACCT305 Intermediate Accounting II*^
This second course in intermediate accounting addresses financial accounting, with an emphasis on external reporting to the investing public in accordance with generally accepted accounting principles. Topics include property; plant and equipment; intangible assets; investments; current, long-term and contingent liabilities; and leases. *Prerequisite: ACCT304 / 4-4*

### ACCT312 Intermediate Accounting III*^
This course continues topics covered in ACCT305 and addresses accounting for income taxes, pensions and other postretirement benefits; shareholders' equity; share-based compensation and earnings per share; accounting changes and error correction; and statement of cash flows. *Prerequisite: ACCT305 / 4-4*

### ACCT324 Federal Tax Accounting I*
This course covers federal income tax concepts and their effect on individuals. Topics include the history and background of taxes, gross income, exclusions, allowable deductions, and the basis for gain and loss on the disposition of property. *Prerequisite: Concurrent enrollment in or completion of ACCT212 / 4-4*

### ACCT346 Managerial Accounting*^
This course introduces how managers use accounting information in business decision-making. Topics include standard cost systems, budgeting, break-even analysis, relevant cost issues, and the effect of state and federal taxes on decision-making. These principles apply to all types of businesses, including the service industry, manufacturing and merchandising. Students use spreadsheet applications to analyze and provide solutions to challenges faced by management in today's business environment. *Prerequisite: ACCT212 / 4-4*

### ACCT349 Advanced Cost Accounting*
This capstone course addresses additional management accounting topics to further refine students' abilities to present information to management. Students participate in the decision-making process, in which activity-based costing and management, pricing strategies and profitability are emphasized. Current approaches to cost control, such as learning curves, life cycle costing and just-in-time (JIT) principles, are included. *Prerequisite: ACCT346 / 4-4*

### ACCT405 Advanced Accounting*^
This course addresses financial accounting practice and theory in relation to consolidations, pushdown accounting, foreign currency transactions, financial statement remeasurement and translation, and partnership accounting. *Prerequisite: ACCT312 / 4-4*

### ACCT424 Federal Tax Accounting II*
This course addresses the special tax issues of corporations, partnerships, S corporations, gift taxes, estates and trusts. Tax forms, tax software, the Internet, spreadsheets and word processing programs are used to research, solve and analyze tax problems relating to corporate and partnership income taxes. *Prerequisite: ACCT324 / 4-4*

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

**ACCT427 International Accounting**
This course explores international accounting standards, the history of International Financial Reporting Standards (IFRS) and the current status of IFRS worldwide. Harmonization of U.S. generally accepted accounting principles with IFRS is emphasized. In addition, international accounting issues such as financial reporting, disclosure, foreign currency and analysis are addressed. *Prerequisite: ACCT304 / 4-4*

**ACCT429 Federal Income Taxation*^**
This course examines basic concepts of federal income taxation of individuals and businesses, including sole proprietorships, S corporations and limited partnerships. Topics include income inclusions and exclusions, property transactions, capital gains and losses, and tax credits. Students develop basic tax planning skills, and use tax planning and preparation software packages. *Prerequisite: ACCT212 / 4-4*

**ACCT434 Advanced Cost Management*^**
This course addresses students' ability to present information to management as part of the decision-making process. Resource planning, cost estimating, cost budgeting and cost control are emphasized. Activity-based costing, pricing strategies and profitability are addressed. Current approaches to cost control such as life cycle costing and just-in-time (JIT) are included. Internet and library research competencies are developed, as are spreadsheet and presentation software skills. *Prerequisite: ACCT346 / 4-4*

**ACCT439 Professional Ethics for Accountants***
This course provides a framework for decision-making in the accounting profession. Core values such as ethical reasoning, integrity, objectivity and independence, social responsibility, legal and regulatory requirements, and professional codes of conduct are explored. State, national, and international ethics and legal developments are examined. General principles are applied using case studies from the accounting profession. *Prerequisite: ACCT312 / 3-3*

**ACCT440 Accounting Research***
This course introduces professional research skills critical in the accounting profession. Students learn to apply research methods using a real-world case study approach in the areas of financial accounting, tax and audit. Students identify research problems and authoritative sources, develop search criteria, gather and evaluate data, formulate conclusions, prepare a written report of their research and findings, and present recommendations. *Prerequisites: ACCT312; and ENGL216, ENGL219 or ENGL227 / 3-3*

**ACCT444 Auditing*^**
This course covers accepted principles, practices and procedures used by public accountants for certifying corporate financial statements. It also introduces audit reports, the corporate internal auditor's function, and interaction between outside auditors and a client company's accounting staff. In addition, the course fosters students' analytical skills. Hands-on experience is gained with computerized accounting systems. *Prerequisite: ACCT312 / 4-4*

**ACCT451 Accounting Information Systems with Lab*^**
This course analyzes current practices and technologies used to design, install, operate and manage an integrated, automated accounting system. The general ledger, appropriate subsidiary ledgers and each transaction process cycle are discussed. In addition, application controls, information security requirements and integration with other business information systems are examined. *Prerequisite: ACCT312 / 5-4*

**ACCT452 Governmental and Not-for-Profit Accounting^**
This course introduces core concepts and tools of accounting and reporting for managers of governmental and not-for-profit organizations under generally accepted accounting principles (GAAP). Topics include financial and operational organization; statement creation and interpretation; reporting; and budgeting. Special emphasis is given to financial reporting, performance measurement, auditing and compliance. The impact of standards promulgated by various agencies is investigated and evaluated. *Prerequisite: ACCT212 / 4-4*

**ACCT461 Accounting Senior Project**
Students in this course synthesize business and accounting concepts, applying theory to accounting practice. Problem-solving, and legal and ethical considerations, are examined. Case analysis or extensive inquiry culminates in an individual essay. *Prerequisites: Successful completion of 89 semester-credit hours, ACCT444 and permission from the appropriate academic administrator / 3-3*

## BUSINESS INTELLIGENCE AND ANALYTICS MANAGEMENT

**BIAM300 Managerial Applications of Business Analytics***
This course examines major themes of business intelligence and business analytics. Through case studies, students explore how analytics impact organizational management in today's data-rich environment. Coursework addresses implementing business analytics techniques, business modeling, data sources, the business analyst's role in the organization, business process modeling, key performance indicators, use of data warehouses and data mining. *Prerequisites: BIS245 and MATH221 / 4-4*

**BIAM400 Applied Business Analytics***
This course examines use of optimized modeling techniques, including break-even analysis, optimization modeling, sensitivity analysis, linear programming, network models, regression, time series analysis, decision-making under uncertainty and simulation models. *Prerequisite: BIAM300 / 4-4*

**BIAM410 Database Concepts in Business Intelligence***
This course explores designing, developing, implementing and using a database to derive business intelligence solutions. Topics include roles, responsibilities, object relational impedance mismatch, data warehousing, online analytical processing and implementation of data mining tools. Case studies focusing on analyzing and interpreting data to support decision-making are used. *Prerequisite: BIS245 / 4-4*

**BIAM420 Introduction to Internet Analytics***
This course focuses on analyzing and interpreting data to support decision-making for planning and performance assessment. Students are introduced to data sources such as web logs, big data, social data (e.g., emails, blogs, tweets), common key performance indicators and Internet analytics tools. *Prerequisite: BIAM410 / 4-4*

## BIOSCIENCES

**BIOS105 Fundamentals of Human Anatomy and Physiology with Lab^**
This course provides a "road map" perspective of human body structure and function. Topics include cell structure and function, and a survey of all major systems of the human body. The connections and inter-working relationships among systems are introduced. Lab work includes computer exercises and simulation activities, as well as observation related to topics covered. / 5-4

**BIOS135 Foundations in Biology and Chemistry with Lab*^**
This course introduces biology and chemistry, stressing the relatedness and interdependence between biological concepts and their associated chemical features. Genetics, cell communication, immune responses, evolution, organic chemistry and biological macromolecules are introduced. Lab exercises focus on inquiry and discovery, and support topics presented. *Prerequisite: MATH114 or the equivalent / 5-4*

**BIOS140 Biology with Lab**
This general biology course covers animal and plant cells, as well as organelle structure and function, and also addresses cell growth and division. Additional topics include tissue structure, organ structure and function, and an introduction to genetics and the immune response. Lab exercises support topics discussed. */ 5-4*

**BIOS195 Anatomy and Physiology for Health Sciences with Lab*^**
This course covers fundamentals of human anatomy and physiology while providing dynamic insights into body systems and physiology. Lab exercises provide experience in measuring biological and physiological signals and processes. Supporting concepts of chemistry and biology are presented. *Corequisite: MATH114 or the equivalent / 5-4*

**BIOS242 Fundamentals of Microbiology with Lab***
This course covers basic concepts of microbiology, with emphasis on medically important microorganisms and infectious diseases. Also addressed are microscopy, microbial growth and genetics, antimicrobial agents, epidemiology and immune system responses to pathogens. Lab exercises focus on aseptic techniques; isolation and culture of microorganisms; microscopy; and staining techniques. *Prerequisite: BIOS140 / 5-4*

**BIOS245 Cell Biology with Lab***
This course focuses on structural organization and processes of eukaryotic cells. Topics include fundamental molecular, cellular and genetic processes common to all mammalian cells. In the lab, students employ methodologies and techniques commonly used in modern cell biology, with emphasis on clinical relevance. *Prerequisites: BIOS140 and CHEM130 / 5-4*

**BIOS251 Anatomy and Physiology I with Lab**
This course is the first in a four-course sequence in which human anatomy and physiology are studied using a body systems approach. Coursework emphasizes interrelationships between form and function at the gross and microscopic levels of organization. Topics include basic anatomical and directional terminology; muscle tissues; fundamental concepts and principles of cell biology; histology; and the integumentary and skeletal systems. */ 2.5-2*

**BIOS252 Anatomy and Physiology II with Lab**
This course is the second in a four-course sequence in which human anatomy and physiology are studied using a body systems approach. Coursework emphasizes interrelationships between form and function at the gross and microscopic levels of organization. Topics include fundamental concepts and principles of the muscular and nervous systems, special senses and the endocrine system. *Corequisite: MATH114; prerequisite: BIOS251 / 2.5-2*

**BIOS255 Anatomy and Physiology III with Lab**
This course is the third in a four-course sequence addressing human anatomy and physiology using a body systems approach. Coursework emphasizes interrelationships between form and function at the gross and microscopic levels of organization. Topics include the cardiovascular, immune and respiratory systems. *Prerequisite: BIOS252 / 2.5-2*

**BIOS256 Anatomy and Physiology IV with Lab**
This course completes the four-course sequence in which human anatomy and physiology are studied using a body systems approach. Coursework emphasizes interrelationships between form and function at the gross and microscopic levels of organization. Topics include the digestive, urinary and reproductive systems. *Prerequisite: BIOS255 / 2.5-2*

**BIOS260 Fundamentals of Pathophysiology*^**
Students develop a foundational knowledge of the pathogenesis and clinical manifestation of disease in order to work effectively with health data and communicate with healthcare providers. Medical terminology, anatomy and physiology, and mechanisms of human disease are integrated at a basic level of understanding. Students apply knowledge to examples and practice scenarios involving the classification and analysis of disease states. *Prerequisites: BIOS105 and HIT111 / 4-4*

**BIOS271 Microbiology and Chemistry I with Lab**
This course is the first in a two-course sequence addressing basic foundations of chemistry and microbiology using an integrated approach. Through total integration and problem-solving approaches, aspects of the two disciplines are emphasized. Topics include basic chemistry – including introductory organic and biochemistry – microbial classification and genetics, and cellular structure and function. */ 2.5-2*

**BIOS272 Microbiology and Chemistry II with Lab**
This course completes the two-course sequence addressing basic foundations of chemistry and microbiology using an integrated approach. Through total integration and problem-solving approaches, aspects of the two disciplines are emphasized. Topics include chemical reactions, microbial metabolism and growth, the immune response, pathology of infectious diseases, and applied and environmental microbiology. *Prerequisite: BIOS271 / 2.5-2*

**BIOS275 Pharmacology and Medical Treatment*^**
This course surveys indications for the use of commonly prescribed pharmaceutical treatments. Terminology and classifications of drugs and their effects on human body systems are reviewed. Uses of surgical interventions and non-drug therapeutic treatments are also explored, in the context of addressing patient diagnoses and conditions. Students apply knowledge gained to practice examples. *Prerequisites: BIOS105 and HIT111 / 3-3*

**BIOS380 Introduction to Biochemistry with Lab***
This course examines theory and application of biochemical principles. Topics include basic structures of the major classes of biological molecules, including carbohydrates, lipids, proteins and nucleic acids, as well as exploration of central metabolic activities of living organisms. Lab exercises relate to topics discussed. *Prerequisite: CHEM225 / 5-4*

**BIOS390 Molecular Biology with Lab***
This course focuses on molecular mechanisms of cellular processes. Topics include DNA replication, genetic recombination, transcription, gene regulation, protein synthesis, genomics and proteomics. Molecular methods used to analyze these processes are also covered. Lab exercises relate to topics discussed. *Prerequisites: BIOS242 and BIOS380 / 5-4*

**BIOS480 Immunology***
This course examines concepts of immunology as related to antigen presentation, immunoglobulin structure, host defense mechanisms, allergies and autoimmunity, with particular emphasis on use of the antigen-antibody reaction in pathogen detection. *Prerequisites: BIOS242, BIOS245 and BIOS380 / 3-3*

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

## BUSINESS INFORMATION SYSTEMS

**BIS155 Data Analysis with Spreadsheets with Lab^**
This course focuses on analyzing business situations using current spreadsheet software. Using data derived from real-world business situations, students learn to use appropriate spreadsheet software features to organize, analyze and present data, as well as to make business decisions. Through personal database technology such as Access, the course also introduces basic database concepts. *Prerequisite: COMP100 / 4-3*

**BIS245 Database Essentials for Business with Lab*^**
Students in this course learn to design relational databases and to build database applications, including tables, queries, forms, reports and macros. Also addressed is implementation of basic database security, backup and recovery procedures. Generating reports and meeting business requirements are emphasized. *Prerequisite: BIS155 / 5-4*

**BIS261 Requirements Gathering and Testing with Lab***
This course introduces the systems development life cycle (SDLC), and then focuses on the requirements-gathering and testing phases. Through hands-on experience and real-world project work, students apply techniques for developing comprehensive system requirements. They learn how to identify stakeholders and facilitate meetings in formats including face-to-face communication, online discussions, web conferences and conference calls. Experience is also gained in planning and coordinating a comprehensive testing process and evaluating test results to ensure that solutions meet requirements. *Prerequisite: BIS245 / 5-4*

**BIS300 Enterprise Business Information Systems***
This course explores fundamentals of information systems and their role in the business enterprise. Topics include elements critical to effective selection, deployment, management and strategic use of information technology, hardware and software concepts; networking; the systems development life cycle; and the role of e-commerce, enterprise resource planning (ERP), customer relationship management (CRM) and supply chain management (SCM) systems. *Prerequisite: BIS245 / 3-3*

**BIS311 Object-Oriented Programming for Business with Lab***
This course addresses how various system architectures, programming and database technologies combine to form a system, and provides an overview of local and wide area networks at a conceptual level. Basic object-oriented programming principles are covered, and a programming language is used to implement a simple multi-tier desktop database application. The course culminates with students analyzing a business problem and recommending a system to address the related business needs. *Prerequisite: BIS261 / 5-4*

**BIS325 Principles of Web Development with Lab***
This course concentrates on basic knowledge and skills required for web page design from the perspective of the business manager in an organization conducting business online. Coursework focuses on developing technical and business skills to accomplish business goals. Emphasis is placed on maintaining balance between technology tools and business strategy. Sufficient technical knowledge is developed to facilitate effective communication with information technology (IT) professionals such as webmasters and network administrators. *Prerequisite: BIS311 / 5-4*

**BIS345 Data Analysis for Decision-Making with Lab***
Using a business case approach and an enterprise-level database management system, students learn structured query language (SQL) to extract data to be used for solving business problems. The course focuses on developing students' ability to write complex SQL statements. Report-writing software is then used to organize and present such information to stakeholders. Implementation of database security is also covered. *Prerequisite: BIS245 / 5-4*

**BIS360 Systems Implementation and Training with Lab***
This course focuses on implementing systems and managing change in large and small organizations. Students learn to perform needs analysis, and develop training and implementation plans to ensure that initiatives are effectively introduced. They also gain experience with e-learning technologies, discover how such tools can be used to conduct training, develop training materials and conduct a training session. *Prerequisite: BIS261 / 5-4*

**BIS445 Business Intelligence and Data Analysis with Lab***
This course addresses how a company's business intelligence program supports business strategy. Students use an enterprise-level database management system to design and implement a simple data warehouse. They also study components of a decision support system; organize, analyze and present data using data analysis and report-writing tools; and make business decisions based on such data. *Prerequisites: BIS345 and MATH221 / 5-4*

**BIS450 Web-Based Solutions with Lab***
This course addresses methods to share data effectively via the Internet, mobile computing, and mail and web servers. Students also learn to create a simple system that integrates client side and server side technologies. *Prerequisites: BIS325 and BIS345 / 5-4*

## BIOMEDICAL ENGINEERING TECHNOLOGY

**BMET313 Biomedical Equipment and Instrumentation I with Lab^**
This course presents principles of biomedical devices used to measure biological and physiological processes. Coursework addresses general purpose bioamplifier and filter units, electromyographs, noninvasive blood pressure systems, spirometers, pulse-oximeters, plethysmographs, tonometers, digital thermometers, phonocardiographs and Doppler flow meters. Various transduction processes are presented, emphasizing physiological signal measurement and basic quantitative analysis techniques. *Prerequisites: BIOS135 and BIOS195, or BIOS256; ECET340; and PHYS320 / 5-4*

**BMET323 Biomedical Equipment and Instrumentation II with Lab^**
This course covers integrated biomedical systems and their associated medical applications, as well as troubleshooting techniques, safety practices and maintenance procedures for various instruments and devices. Topics include electrocardiographs, brain activity monitoring recorders, patient monitors, pacemakers, defibrillators, electrical stimulators, electrostatic units, dialysis equipment and related equipment used in clinical environments. Coursework examines basics of calibration, troubleshooting, repair and certification, needed to determine if equipment and instruments meet specifications. *Prerequisite: BMET313 / 5-4*

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**BMET433 Medical Imaging Technology with Lab^**
This course introduces various transmission- and emission-based medical imaging techniques including X-rays, computed tomography (CT), ultrasound (Doppler and basic imaging), magnetic resonance imaging (MRI) and positron emission tomography (PET). Fundamental physics of these technologies are presented, as are basics of image acquisition, processing, image format construction and storage types. Also addressed are PAC and DICOM standards, as well as radiation safety and standards. *Prerequisite: BMET323 / 5-4*

**BMET436 Telemedicine and Medical Informatics with Lab*^**
This course covers design principles and implementation of computer infrastructure as related to accessing medical databases, visualizing medical techniques, and transferring and manipulating medical data over communication networks. Topics include digital imaging and communications in medicine (DIACOM), picture archiving and communication systems (PACS), and health level 7 (HL7) networks. In the lab, students experiment with communicating medical data. *Prerequisites: BMET323 and ECET375 / 5-4*

**BMET453 Biomedical Engineering Technology Professional Topics*^**
In this course, the first in a two-course sequence, students begin an internship at a biomedical facility. In the classroom component, topics related to the BMET field are discussed, including projections for regulatory policy revision, advancements in equipment technology, and new medical and biotechnology frontiers. Students keep a detailed journal logging their internship time and activities, and review their field experience with faculty. Combined internship time from BMET453 and BMET454 must total at least 90 hours. *Prerequisite: BMET323 / 2-2*

**BMET454 Biomedical Engineering Technology Internship*^**
In this course, a continuation of BMET453, students gain additional work experience in a biomedical facility. Students keep a detailed journal logging their time and activities, and meet regularly with faculty to review their field experience. Combined internship time from BMET453 and BMET454 must total at least 90 hours. *Prerequisite: BMET453 / 1-1*

## BUSINESS

**BUSN115 Introduction to Business and Technology^**
This course introduces business and the environments in which businesses operate. Students examine the roles of major functional areas of business and interrelationships among them. Organizational theories and techniques are examined, and economic, cultural, political and technological factors affecting business organizations are evaluated. */ 3-3*

**BUSN258 Customer Relations***
This course examines components of a solid customer relations program and develops students' ability to recognize and participate in such programs. Students develop interpersonal communication and listening skills as well as conflict resolution skills. They also explore customer relations as an effective sales technique. *Prerequisite: BUSN115 / 4-4*

**BUSN278 Budgeting and Forecasting***
In this course students design and implement a departmental budget encompassing the various processes that account for resource expenditures. Students develop a long-range budget forecast and then assess its impact on departmental planning. *Prerequisite: ACCT212 / 4-4*

**BUSN315 Contemporary Business**
This course provides an overview of business and economic principles and theory. Students consider ways in which businesses must respond to a constantly changing competitive environment that is both local and global in scale. Coursework addresses business institutions; roles and responsibilities of management; and functions such as finance, accounting, organizational management, marketing and human resources. Ethics, social responsibility and the impact of technology on business are considered. This course may not be applied to elective course requirements. *Prerequisite: Successful completion of 60 semester-credit hours / 3-3*

**BUSN319 Marketing*^**
In this course students apply principles and strategies for marketing products and services to industrial, commercial and governmental entities. Topics include ways in which market information and product life cycle affect product and production design; forecasting techniques; interdependencies between marketing and operations functions; and selling skills. *Prerequisites: BUSN115 and MATH114 / 3-3*

**BUSN350 Business Analysis***
This course introduces tasks and techniques used to systematically understand the structure, operations, processes and purposes of an organization. Approaches to needs assessment, data collection, elicitation, analysis and synthesis are covered. Problems and cases are used to explore various organizational functions with multiple stakeholders. *Prerequisites: Successful completion of 56 semester-credit hours, and MATH221 or MATH233 / 3-3*

**BUSN369 International Business*^**
This course introduces key concepts defining today's competitive global environment – including various cultural, political, economic and legal systems – and their impact on international business. In addition, students examine various international business issues, trends, monetary systems, trade policies and institutions, as well as regional economic integration. *Prerequisite: BUSN115 / 4-4*

**BUSN379 Finance*^**
This course introduces corporate financial structure and covers basic capital budgeting techniques, including discounted cash flow analysis. Funds sources and financial resource allocation are analyzed. Spreadsheet software packages are used to analyze data and solve case-based problems. *Prerequisite: ACCT212 / 3-3*

**BUSN380 Personal Financial Planning***
This course introduces the process of personal financial planning, providing tools and skills useful in students' professional and personal lives. Topics include cash flow management, budgeting, goal setting, investments, taxation, insurance, and retirement and estate planning. Topics are presented from a practitioner point of view. *Prerequisite: ACCT212 or ACCT301 / 3-3*

**BUSN412 Business Policy*^**
This course integrates functional disciplines within the curriculum, and introduces the nature of strategic management as well as how business policy is created. Topics include organizational vision and mission, industry and competitive analysis, sustainable competitive advantage, strategy formulation and implementation, and strategic leadership. Through case analyses and a simulation exercise, students develop strategic plans and engage in strategic management. *Prerequisite: Successful completion of 80 semester-credit hours / 4-4*

**BUSN420 Business Law***
This course provides an overview of business law and introduces fundamental legal principles encountered in the business environment. Topics include state and federal courts and jurisdiction, contract law, tort law, commercial paper, bankruptcy, suretyship and accounting liability. *Prerequisite: Successful completion of 80 semester-credit hours / 4-4*

**BUSN460 Senior Project***
Working in teams, students apply knowledge and skills, including competencies in problem-solving, critical thinking, research, teamwork, and oral and written communication, to real-world problems in a client-based environment. Assignments are based on competencies developed in students' prior coursework. This course must be taken at DeVry. Students who receive credit for this course may not also receive credit for BUSN462 and BUSN463. *Prerequisites: Successful completion of 89 semester-credit hours and permission from the appropriate academic administrator / 3-3*

*Note: The combination of BUSN462 and BUSN463 may be offered as an alternate to BUSN460.*

**BUSN462 Senior Project I***^
In this course, the first in a two-course sequence, students apply their problem-solving, critical thinking, research, teamwork, and oral and written communication skills to real-world problems in a customer-focused environment. Acclimating to new work situations and environments is emphasized. Working individually and in teams, students draw on knowledge and competencies developed through prior coursework. This course must be taken at DeVry. Students who receive credit for this course may not also receive credit for BUSN460. *Prerequisites: Successful completion of 89 semester-credit hours and permission from the appropriate academic administrator / 2-1*

**BUSN463 Senior Project II^**
In this course, a continuation of BUSN462, students further apply their problem-solving, critical thinking, research, teamwork, and oral and written communication skills to real-world problems in a customer-focused environment. Working individually and in teams, students apply knowledge and competencies as they prepare and present final work deliverables. This course must be taken at DeVry. Students who receive credit for this course may not also receive credit for BUSN460. *Prerequisite: BUSN462 / 2-2*

## CAREER DEVELOPMENT

**CARD205 Career Development***^
Career planning strategies and resources are explored to prepare students for a successful job search and to maximize potential for advancement and long-term professional growth. Students perform self-assessment and goal-setting activities, and apply research and evaluation skills to execute job search and career advancement strategies. Each student assembles a professional portfolio highlighting achievements, goals and concrete plans. This course must be taken at DeVry. *Prerequisite: Successful completion of 40 semester-credit hours / 2-2*

**CARD405 Career Development^**
Career planning strategies and resources are explored to prepare students for a successful job search and to maximize potential for advancement and long-term professional growth. Students perform self-assessment and goal-setting activities, and apply research and evaluation skills to execute job search and career advancement strategies. Each student assembles a professional portfolio highlighting achievements, goals and concrete plans. This course must be taken at DeVry. Students who receive credit for this course may not also receive credit for CARD415. *Prerequisite: Successful completion of 89 semester-credit hours / 2-2*

**CARD415 Career Development Strategies^**
Building on self-presentation and career planning skills gained earlier, students in this course acquire knowledge of ongoing career development strategies. Through research, analysis and discussion of case studies, videos, role-plays and contemporary business literature, students identify principles and practices associated with professionalism in today's careers. Students develop potential career paths that suit personal strengths and aspirations, and develop greater awareness of themselves as communicators, problem-solvers and team players. This course must be taken at DeVry. Students who receive credit for this course may not also receive credit for CARD405. *Prerequisites: Successful completion of 78 semester-credit hours and CARD205 / 1-1*

## COMPUTER FORENSICS

**CCSI330 Digital Crime: Evidence and Procedure***^
This course introduces basic legal concepts and evidentiary procedures for investigating criminal activity involving computers and computer-based systems. Students explore practical application of law and legal procedures in the digital age. *Prerequisite: COLL148 / 3-3*

**CCSI360 Computer Ethics***^
This course explores the nature and social impact of computer technology, as well as the corresponding formulation and justification of governmental and organizational policies for ethical uses of such technology. Addressed are legal, ethical and sociological concerns about the ubiquity of computer software and hardware, as well as concerns about the proliferation and pervasive nature of computer networks. *Prerequisite: SEC280 / 3-3*

**CCSI410 Digital Forensics I with Lab***^
This course introduces the study of forensics by outlining integrative aspects of the discipline with those of other sciences. Coursework focuses on applying basic forensic techniques used to investigate illegal and unethical activity within a PC or local area network (LAN) environment and then resolving related issues. *Prerequisites: CCSI330 or JADM340, and CIS246 / 5-4*

**CCSI460 Digital Forensics II with Lab***^
This course builds on forensic computer techniques introduced in CCSI410, focusing on advanced investigative techniques to track leads over local and wide area networks, including international computer crime. *Prerequisite: CCSI410 / 5-4*

## COMMUNICATION DESIGN MANAGEMENT

**CDM300 Verbal and Visual Rhetoric**
This course introduces rhetorical theory and its practical applications. Logic, argument and language are emphasized in crafting effective communication documents. Students also apply rhetorical principles to visual analysis and design, as well as consider how text and images combine to create coherent and persuasive messages across diverse media. *Prerequisite: COMM301 or ENGL227 / 4-4*

**CDM340 Perspectives on Technology**
This course considers technology's impact on individuals and society. Students explore the definition of technology, technological change and diffusion of technology. How technology helps shape our identities, the relationship of technology change on culture and how culture impacts technology are analyzed. *Prerequisite: COMM301 or ENGL227 / 3-3*

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**CDM360 Graphic Design and Delivery**
Students in this course apply principles of visual rhetoric to graphic design as well as examine elements such as typography, color and scale. Various graphic design software and hardware is explored as students consider issues in designing electronic devices and how design translates from computer to print shop. *Prerequisite: CDM300 / 4-4*

**CDM410 Information Content and Management**
This course examines strategies, methods and tools used to organize and manage large amounts of information. Print documents as well as web content management are considered. Managing the complete information life-cycle – from information's initial publication/production, through its storage, retrieval and disposal – is addressed. Also examined are security and information as a business resource. *Prerequisite: COMM301 or ENGL227 / 4-4*

**CDM420 Organizational Communication**
This course examines principles and application of successful communication within a corporate structure. Various models of organizational theory are considered in conjunction with social psychology, group dynamics and cross-cultural communication. The role of teams within the larger organizational structure is emphasized, as are strategies for effective team-building and -management. *Prerequisite: CDM340 / 4-4*

**CDM430 Communicating in a Multimedia Environment**
Students in this course apply rhetorical and design principles to interactive media. A systematic instructional design approach – as well as systems, learning and communication theories – provide a framework for course explorations. Techniques for converting text and data into visual images are explored. *Prerequisite: CDM410 / 4-4*

**CDM440 Interactive Design in a Multimedia Environment**
Students in the course, a continuation of CDM430, apply instructional design principles to interactive, computer-facilitated methods, media and learning environments. Principles of successful presentation skills are explored and practiced. *Prerequisite: CDM430 / 4-4*

## ENGINEERING TECHNOLOGY AND INFORMATION SCIENCES

**CEIS100 Introduction to Engineering Technology and Information Sciences**
This course introduces basics of networking, programming logic and electrical engineering technology concepts. Topics include the importance of ethics and communications in the engineering world, as well as the benefits of belonging to a professional organization. In the lab, students gain experience in problem solving and completing lab reports. They also create portfolios and plan which courses they will take while at DeVry. */ 3-2*

**CEIS210 Introduction to Cryptographic Methods***
This course illustrates where and how cryptography is used. Also addressed are cryptographic algorithms and protocols, and how they are used to protect information in various states. Topics include number theory; types of attacks; and cryptographic modes, protocols and security functions. *Prerequisite: SEC280 / 5-4*

## CHEMISTRY

**CHEM120 Introduction to General, Organic and Biological Chemistry with Lab*^**
This introduction to general, organic and biological chemistry includes topics such as chemical nomenclature, structures, equations, calculations and solutions. In addition, the chemical structure and function of biological macromolecules are surveyed. Lab exercises relate to topics discussed. *Corequisite: MATH114 or MATH190 / 5-4*

**CHEM130 General Chemistry I with Lab***
This course covers fundamental principles and laws involved in chemical change. Topics include measurement nomenclature; stoichiometry; atomic structure; bonding; properties of gases, liquids and solids; and solution calculations. Lab exercises relate to topics discussed. *Prerequisite: MATH114 / 5-4*

**CHEM140 General Chemistry II with Lab***
Students in this course continue their study of fundamental principles and laws involved in chemical change. Topics include acids and bases, bonding theory, electrochemistry, equilibrium, thermodynamics, kinetics and nuclear chemistry. Lab exercises relate to topics discussed. *Prerequisite: CHEM130 / 5-4*

**CHEM225 Fundamentals of Organic Chemistry with Lab***
This course presents fundamentals of organic chemistry, with emphasis on structure, nomenclature and reactions as applied to organic compounds. Topics include compound nomenclature, stereochemistry, alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, epoxides, carbonyl containing compounds, aromatics and spectroscopy. Biochemical molecules are introduced with their organic functional groups. Lab exercises relate to topics discussed. *Prerequisite: CHEM140 / 5-4*

## COMPUTER INFORMATION SYSTEMS

*Note: There are several sets of CIS courses, ending in A, B or C, that differ principally in the language/platform used to explore course concepts. Each course in the set meets graduation requirements. Later in the program, students must choose courses that explore the corresponding language/platform.*

**CIS115 Logic and Design*^**
This course introduces basics of programming logic, as well as algorithm design and development, including constants, variables, expressions, arrays, files and control structures for sequential, iterative and decision processing. Students learn to design and document program specifications using tools such as flowcharts, structure charts and pseudocode. Program specification validation through desk-checking and walk-throughs is also covered. *Prerequisite: CEIS100 / 3-3*

**CIS170A Programming with Lab***
This course introduces basics of coding programs from program specifications, including use of an integrated development environment (IDE), language syntax, as well as debugger tools and techniques. Students also learn to develop programs that manipulate simple data structures such as arrays, as well as different types of files. Visual Basic.Net is the primary programming language used. *Prerequisites: CEIS100 and CIS115 / 5-4*

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

**CIS170B Programming with Lab*^**
This course introduces basics of coding programs from program specifications, including use of an integrated development environment (IDE), language syntax, as well as debugger tools and techniques. Students also learn to develop programs that manipulate simple data structures such as arrays, as well as different types of files. C#.Net is the primary programming language used. *Prerequisites: CEIS100 and CIS115 / 5-4*

**CIS170C Programming with Lab***
This course introduces basics of coding programs from program specifications, including use of an integrated development environment (IDE), language syntax, as well as debugger tools and techniques. Students also learn to develop programs that manipulate simple data structures such as arrays, as well as different types of files. C++.Net is the primary programming language used. *Prerequisites: CEIS100 and CIS115 / 5-4*

**CIS206 Architecture and Operating Systems with Lab*^**
This course introduces operating system concepts by examining various operating systems such as Windows, UNIX and Linux. Students also study typical desktop system hardware, architecture and configuration. */ 5-4*

**CIS246 Connectivity with Lab*^**
This course covers fundamentals of data communication and computer networking, including the Open Systems Interconnection (OSI) model. Network architecture and configurations such as local area networks (LANs) and wide area networks (WANs) are addressed. *Prerequisite: CIS206 / 5-4*

**CIS247A Object-Oriented Programming with Lab*^**
This course introduces object-oriented programming concepts including objects, classes, encapsulation, polymorphism and inheritance. Using an object-oriented programming language, students design, code, test and document business-oriented programs. C#.Net is the primary programming language used. *Prerequisite: CIS170B / 5-4*

**CIS247B Object-Oriented Programming with Lab***
This course introduces object-oriented programming concepts including objects, classes, encapsulation, polymorphism and inheritance. Using an object-oriented programming language, students design, code, test and document business-oriented programs. Java is the primary programming language used. *Prerequisite: CIS170A, CIS170B or CIS170C / 5-4*

**CIS247C Object-Oriented Programming with Lab***
This course introduces object-oriented programming concepts including objects, classes, encapsulation, polymorphism and inheritance. Using an object-oriented programming language, students design, code, test and document business-oriented programs. C++.Net is the primary programming language used. *Prerequisite: CIS170C / 5-4*

**CIS321 Structured Analysis and Design*^**
This course introduces the systems analysis and design process using information systems methodologies and techniques to analyze business activities and solve problems. Students learn to identify, define and document business problems and then develop information system models to solve them. *Prerequisite: CIS170A , CIS170B or CIS170C / 4-3*

**CIS336 Introduction to Database with Lab*^**
This course introduces concepts and methods fundamental to database development and use including data analysis and modeling, as well as structured query language (SQL). Students also explore basic functions and features of a database management system (DBMS), with emphasis on the relational model. *Prerequisite: CIS321, GSP215 or WBG310 / 5-4*

**CIS339 Object-Oriented Analysis and Design*^**
Building on the foundation established in CIS321, students explore techniques, tools and methods used in the object-oriented approach to developing applications. Students learn how to model and design system requirements using tools such as Unified Modeling Language (UML), use cases and scenarios, class diagrams and sequence diagrams. *Prerequisites: CIS247A, CIS247B or CIS247C; and CIS321 / 4-3*

**CIS355A Business Application Programming with Lab*^**
Building on analysis, programming and database skills developed in previous courses, this course introduces fundamental principles and concepts of developing programs that support typical business processing activities and needs such as transaction processing and report generation. Students develop business-oriented programs that deal with error handling, data validation and file handling. Java is the primary programming language used. *Prerequisites: CIS247A, CIS247B or CIS247C; and CIS336 / 5-4*

**CIS355B Business Application Programming with Lab***
Building on analysis, programming and database skills developed in previous courses, this course introduces fundamental principles and concepts of developing programs that support typical business processing activities and needs such as transaction processing and report generation. Students develop business-oriented programs that deal with error handling, data validation and file handling. COBOL is the primary programming language used. *Prerequisites: CIS247A, CIS247B or CIS247C; and CIS336 / 5-4*

**CIS363A Web Interface Design with Lab*^**
This course introduces web design and basic programming techniques for developing effective and useful websites. Coursework emphasizes website structure and navigational models, practical and legal usability considerations, and performance factors related to using various types of media and tools such as hypertext markup language (HTML), cascading style sheets (CSS), dynamic HTML (DHTML) and scripting. Dreamweaver and Flash are the primary software tools used. *Prerequisite: CIS247A, CIS247B or CIS247C / 5-4*

**CIS363B Web Interface Design with Lab***
This course introduces web design and basic programming techniques for developing effective and useful websites. Coursework emphasizes website structure and navigational models, practical and legal usability considerations, and performance factors related to using various types of media and tools such as hypertext markup language (HTML), cascading style sheets (CSS), dynamic HTML (DHTML) and scripting. Extensible HTML (XHTML) and JavaScript are the primary software tools used. *Prerequisite: CIS247A, CIS247B or CIS247C / 5-4*

**CIS407A Web Application Development with Lab*^**
This course builds on analysis, interface design and programming skills learned in previous courses and introduces basics of design, coding and scripting, as well as database connectivity for web-based applications. A programming language such as Visual Basic.Net, C++.Net or C#.Net is used to implement web-based applications. ASP.Net is the primary software tool used. *Prerequisites: CIS336 and CIS363A / 5-4*

**CIS407B Web Application Development with Lab***
This course builds on analysis, interface design and programming skills learned in previous courses and introduces basics of design, coding and scripting, as well as database connectivity for web-based applications. JSP is the primary software tool used. *Prerequisites: CIS336 and CIS363B / 5-4*

**CIS470 Computer Information Systems Senior Project***

Working in teams, students apply knowledge and mastered skills, including problem-solving techniques and project-management methods, to an applications-oriented project. The project provides real-world experience by integrating systems analysis, programming, testing, debugging, documentation and user interfacing techniques. This course must be taken at DeVry. *Prerequisites: Successful completion of 89 semester-credit hours and permission from the appropriate academic administrator / 3-3*

Note: The combination of CIS474 and CIS477 may be offered as an alternate to CIS470.

**CIS474 Computer Information Systems Senior Project I*^**

Working in teams, students in this course, the first in a two-course sequence, apply problem-solving techniques, application design methodology and project planning/management methods to a real-world, applications-oriented project. Integrating analysis and design skills, students develop requirements and design specifications to meet business needs. This course must be taken at DeVry. *Prerequisites: Successful completion of 89 semester-credit hours and permission from the appropriate academic administrator / 2-1*

**CIS477 Computer Information Systems Senior Project II*^**

In this course, a continuation of CIS474, students work in teams to apply application development techniques and project management methods to an applications-oriented project. Integrating development, testing, implementation and documentation skills, students deliver a product that meets approved specifications. This course must be taken at DeVry. *Prerequisite: CIS474 / 2-2*

## ▼ CLINICAL LABORATORY SCIENCE

**CLS100 Laboratory Science Career Entry Exploration and Phlebotomy**

Students explore career opportunities associated with professions in clinical laboratory science, which seeks to understand changes in function and structure of organs, tissues, cells and their body fluids that lead to disease and death. The role of the clinical laboratory scientist and interaction with other members of the healthcare team are discussed. The practice of phlebotomy (obtaining blood specimens) for testing is emphasized. Students perform phlebotomy on classmates during lab exercises. *Prerequisite: Admission to the Clinical Laboratory Science program / 2-2*

**CLS210 Clinical Chemistry I with Lab***

This clinical course describes principles and procedures for performing clinical lab tests for carbohydrates, lipids, proteins, heme derivatives, enzymes, liver function, urinalysis, spinal fluid, electrolytes, acid-base blood gases, therapeutic drug monitoring, toxicology, endocrine systems and trace elements. Application of statistical analysis to principles of quality assurance and quality control are incorporated into routine practice. Lab exercises support topics discussed. *Prerequisites: BIOS380 and CLS100 / 5-4*

**CLS225 Clinical Microbiology I with Lab***

Students in this clinical course apply basic scientific diagnostic principles and lab examination to clinically significant bacteria. Through morphological and biochemical characteristics, students identify medically relevant aerobic gram-positive and -negative cocci and bacilli. Mycobacterium, Chlamydia, Mycoplasma and other viruses are discussed, as are blood, tissue, intestinal and urogenital protozoa; and intestinal and tissue helminthes. Lab exercises support topics discussed. *Prerequisites: BIOS242 and CLS100 / 5-4*

**CLS230 Hematology and Hemostasis I with Lab***

This clinical course examines morphology and function; production and destruction; metabolism; and related disease states associated with hematopoiesis including erythropoiesis, leukopoiesis and platelets. Lab procedures include examining cell morphology and enumeration, and quantifying coagulation parameters. Students evaluate, interpret and report test results, including criteria by which specimens should be referred for further review. Microscopy is studied, including basic principles, components, functions, adjustments, focus features and maintenance. Lab exercises support topics presented. *Prerequisites: BIOS195 and CLS100 / 5-4*

**CLS240 Immunohematology I with Lab***

This clinical course addresses how blood group genetics, characteristics of blood group systems and related principles of immunohematology influence blood bank practices and transfusion services. Donor criteria, as well as collecting and processing blood and other tissues, are examined. *Prerequisites: BIOS480 and CLS100 / 4-3*

**CLS299 Introduction to Professional Practice for the Clinical Laboratory***

Students in this course assess professional and personal goals as they prepare for training rotations in clinical laboratory settings. Students perform a personal health assessment, reviewing their vaccinations and accepting responsibility for adhering to safe practices; applying rules and regulations of health information; incorporating behavior principles of safety and infection control; and modeling the role of clinical laboratory scientist. The course must be taken the session immediately prior to the session in which CLS350 is taken. *Prerequisites: Permission from the appropriate academic administrator and all other requirements stated in* Additional Academic and Administrative Requirements for Clinical Laboratory Science Program Students */ 1-1*

**CLS350 Clinical Practicum I***

Students in this course engage in a full-time practicum at an affiliated healthcare site under supervision of clinical laboratory professionals. Approximately 240 hours (hours may vary based on student performance) of practical experience is gained within all routine areas of a clinical laboratory. Theoretical principles of the clinical laboratory are also addressed, with emphasis on special testing, problem-solving and various supervisory functions. Review for the national certification exam is included. *Prerequisites: Permission from the appropriate academic administrator and all other requirements stated in* Additional Academic and Administrative Requirements for Clinical Laboratory Science Program Students */ 19-4*

**CLS351 Clinical Practicum II***

In this course, a continuation of CLS350, students engage in a full-time practicum at an affiliated healthcare site under supervision of clinical laboratory professionals. Approximately 240 hours (hours may vary based on student performance) of practical experience is gained within all routine areas of a clinical laboratory. Theoretical principles of the clinical laboratory are addressed, with emphasis on special testing, problem-solving and various supervisory functions. Review for the national certification exam is included. *Prerequisites: Permission from the appropriate academic administrator and all other requirements stated in* Additional Academic and Administrative Requirements for Clinical Laboratory Science Program Students */ 16.5-3*

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

**CLS399 Clinical Laboratory Operations and Management***
This course examines principles of lab management, including fiscal and regulatory aspects. Quality control and assessment as tools for excellence in lab services are examined. Use of lab information systems as management resources, and for business and strategic planning, is introduced. Human resource management is discussed in the context of professional practice. *Prerequisites: Two CLS courses at the 200 level or above / 2-2*

**CLS408 Clinical Immunology with Lab***
This course examines immunochemistry and immunobiology, which play evolving roles in diagnosing health and disease. Immunocytology through the hematopoietic and lymphoid systems is discussed. Clinical lab techniques using immunological principles such as precipitation, agglutination and hemagglutination are addressed. Concepts of phagocytosis, allergy, hypersensitivity, autoimmune disease, transplantation, tumor immunology, and natural resistance and acquired immunity are explained in terms of patient symptoms and lab tests. Lab exercises support topics discussed. *Prerequisite: BIOS480 and CLS100 / 4-3*

**CLS410 Clinical Chemistry II***
This course examines molecular and genetic bases of inherited metabolic disorders, immunologic disorders, tumor markers and other chemistry-related tests in the context of health and disease. Techniques for identifying and resolving variations and discrepancies in test results and procedures are discussed. Coursework examines designing and performing method evaluation studies; quality assurance and management; evaluating lab data; assessing tests for validity and accuracy; and documenting corrective action. Students also become familiar with a variety of lab instruments. *Prerequisites: CLS100 and CLS210 / 2-2*

**CLS420 Clinical Microbiology II***
This course complements Clinical Microbiology I with discussions on selected topics, including algorithms, case studies and systems diagnoses. Diagnosing systems-based microbial diseases, such as respiratory, gastrointestinal, integumentary, cardiovascular and genitourinary system disorders, are addressed. Students evaluate new protocols and procedures; interpret complex concepts and explain them to other members of the healthcare team; and resolve discrepancies. *Prerequisite: CLS225 / 2-2*

**CLS430 Hematology and Hemostasis II***
This course examines hematopathology with classification of anemias, hemoglobinopathies, hemoglobin defects, leukocyte disorders, cytochemistry, histochemistry, cytogenetics, classification of leukemias, myeloproliferative and lymphoproliferative disorders, myelodysplastic syndromes and leukocyte neoplasia. Hemostasis examines pathophysiology including vascular purpuras, platelet disorders, hemophilia and thrombotic disorders. *Prerequisite: CLS230 / 2-2*

**CLS440 Immunohematology II***
This course explores advanced concepts in genetics and immunology as applied to immunohematology. Indications for transfusions, component therapy and adverse effects of transfusions are discussed. Federal and state regulations and current standards of practice are examined, as is accreditation in blood and other tissue banking. *Prerequisite: CLS240 / 2-2*

**CLS450 Clinical Practicum III***
In this course, a continuation of CLS351, students engage in a full-time practicum at an affiliated healthcare site under supervision of clinical laboratory professionals. Approximately 240 hours (hours may vary based on student performance) of practical experience is gained within all routine areas of a clinical laboratory. Theoretical principles of the clinical lab are addressed, with emphasis on special testing, problem-solving and various supervisory functions. Review for the national certification exam is included. *Prerequisites: Permission from the appropriate academic administrator and all other requirements stated in* Additional Academic and Administrative Requirements for Clinical Laboratory Science Program Students */ 16.5-3*

**CLS451 Clinical Practicum IV***
In this course, a continuation of CLS450, students engage in a full-time practicum at an affiliated healthcare site under supervision of clinical laboratory professionals. Approximately 240 hours (hours may vary based on student performance) of practical experience is gained within all routine areas of a clinical laboratory. Theoretical principles of the clinical lab are addressed, with emphasis on special testing, problem-solving and various supervisory functions. Review for the national certification exam is included. *Prerequisites: Permission from the appropriate academic administrator and all other requirements stated in* Additional Academic and Administrative Requirements for Clinical Laboratory Science Program Students */ 16.5-3*

**CLS499 Professional Education and Research***
This course explores methods and teaching techniques to prepare clinical lab scientists to educate healthcare professionals, patients and the public. The role and impact of program assessment, planning, delivery and evaluation on continuing education and professional development of staff are discussed. *Prerequisites: Two CLS courses at the 200 level or above / 2-2*

## CRITICAL THINKING

**COLL148 Critical Thinking and Problem-Solving ^**
This course focuses on identifying and articulating skills needed for academic and professional success. Coursework provides instruction and practice in critical thinking and problem-solving through analysis of critical reading and reasoning, as well as through examination of problem-solving methodologies. Students learn to work in teams, to identify and resolve problems, and to use research effectively to gather and evaluate relevant and useful information. */ 3-3*

## COMMUNICATIONS

**COMM301 Communication Theory in Practice**
This course introduces communication studies, mass communication and public relations, emphasizing their connection to everyday life. Coursework addresses theories in emerging areas and growing fields such as media research, organizational communication and computer-mediated communication. Also featured are traditional theories that have defined the field. *Prerequisite: ENGL135 / 4-4*

**COMM491 Senior Project I**
In this course, the first in a two-course sequence, students propose and begin development of an original thesis paper focusing on a critical issue within their area of concentration. Students apply acquired knowledge and skills, including competencies in problem-solving, critical thinking, research, teamwork, and oral and written communication, to a real-world problem at the conceptual and practical levels. *Prerequisites: Successful completion of 89 semester-credit hours; ENGL135 and ENGL227; and permission from the appropriate academic administrator / 2-2*

**COMM492 Senior Project II**
In this course, the second in a two-course sequence, students complete, prepare and present an original thesis paper focusing on a critical issue within their area of concentration. Students apply acquired knowledge and skills, including competencies in problem-solving, critical thinking, research, teamwork, and oral and written communication, to a real-world problem at the conceptual and practical levels. *Prerequisite: COMM491 / 2-2*

## COMPUTER APPLICATIONS AND PROGRAMMING

**COMP100 Computer Applications for Business with Lab^**
This course introduces basic concepts and principles underlying personal productivity tools widely used in business such as word processors, spreadsheets, email and web browsers. Students also learn basic computer terminology and concepts. Hands-on exercises provide students with experience in use of PCs and current personal productivity tools. */ 3-2*

**COMP122 Structured Programming with Lab^**
This course introduces structured design and programming techniques, as well as common tools to write, compile, run and debug programs written in a high-level programming language to solve a variety of engineering problems. *Corequisite: MATH190 / 5-4*

**COMP129 PC Hardware and Software with Lab^**
This course explores the PC system from software, hardware and operating system points of view. Hardware topics include system boards, processors, memory, power supplies, input/output (I/O) ports, internal adapters, printers and basic networking devices. Software topics include client/server operating systems and installation, as well as licensing software applications. */ 4-3*

**COMP220 Object-Oriented Programming with Lab\*^**
This course introduces concepts of object-oriented programming, such as objects, classes, encapsulation, polymorphism and inheritance, which are used to solve problems related to electronics and computer engineering technology using a high-level language such as C++. *Prerequisite: COMP122 / 5-4*

**COMP230 Introduction to Scripting and Database with Lab^**
This course introduces basic programming concepts, logic and scripting language tools used to automate basic system administrator processes. Critical thinking, logic and troubleshooting are emphasized. Database applications are also introduced, helping students develop basic skills in using a typical database. Security topics are discussed. */ 5-4*

**COMP274 Application Programming with Lab^**
This course introduces the Java programming language and advanced programming concepts such as exception handling, event-driven programming and graphical user interfaces. Coursework also covers use of data streams for moving data to and from files. *Prerequisite: COMP220 / 5-4*

## CRIMINAL JUSTICE

**CRMJ300 Criminal Justice\***
This course focuses on criminal and juvenile justice, and examines the total system of police, courts and corrections. Emphasis is given to interaction of law, crime and criminal justice agency administration in preventing, treating and controlling crime. This course is designed for students with one year of professional experience in law enforcement, criminal justice or a closely related field. */ 3-3*

**CRMJ310 Law Enforcement\***
This course covers the roles of police and law enforcement, and examines the profession, from its historical roots to current concepts such as community policing and homeland security. Policing functions, actions, technology, control and standards are analyzed. *Corequisite: CRMJ300 / 3-3*

**CRMJ315 Juvenile Justice\***
Students in this course examine causes of offending juvenile behavior and analyze juvenile justice system responses, including historical development of the system. Agencies, the police, law, courts and corrections dealing with juveniles are covered. Contemporary issues such as gangs and juveniles in adult courts are explored. *Corequisite: CRMJ300 / 3-3*

**CRMJ320 Theory and Practice of Corrections\***
This course examines the historical foundations, ideological and pragmatic justifications for punishment, sentencing trends and alternatives to incarceration. Organization, operation and management of correctional institutions; systems of correction; and inmate life, treatment, discharge and parole are examined. *Prerequisite: CRMJ300 / 3-3*

**CRMJ400 Criminology\***
This course examines theories and causes of crime, as well as behavior of criminals. Coursework also focuses on victims and societal reaction to crime. Criminal statistics, patterns of crime and typologies are examined, as are ways in which theories are employed within the criminal justice system. *Prerequisite: CRMJ300 / 3-3*

**CRMJ410 Criminal Law and Procedure\***
This course addresses crimes and penalties as defined by law, as well as procedural law regulating enforcement of criminal law. Constitutional principles, types of offenses and the process of law enforcement and procedures (i.e., search, seizure, arrest, interrogation, identification, trial, sentencing, punishment and appeal) are covered. *Prerequisite: CRMJ300 / 3-3*

**CRMJ415 Deviant Behavior\***
This course provides a comparative analysis of various forms of deviant behavior as they occur in everyday life. Characterizations of deviants are studied in the context of individual behaviors. Recent findings and key theories provide insight into deviant behavior and serve as predictors of such behavior. *Prerequisite: CRMJ300 / 3-3*

**CRMJ420 Criminal Investigation\***
This course covers theory, practice, techniques and elements of crime and criminal investigation. Recognizing crime, suspects and perpetrators is approached through problem-solving methodology. Case preparation, testimony, and the evidentiary process for investigating and reconstructing crime are examined. *Prerequisite: CRMJ400 / 3-3*

**CRMJ425 Ethics and Criminal Justice\***
This course introduces basic ethical theories, emphasizing how such theories can be applied to contemporary problems in law enforcement, corrections and adjudications. Students apply various ethical frameworks to typical moral dilemmas in criminal justice. *Prerequisite: CRMJ300 / 3-3*

**CRMJ430 Crime Scene Investigation\***
This course covers methods and procedures for accurate crime scene examination and recording as well as evidence recovery. Documentation; collection and preservation of comprehensive physical evidence; gathering of latent fingerprints; and methods used to process trace and biological evidence are examined. *Prerequisite: CRMJ310 / 3-3*

**CRMJ450 Terrorism Investigation***
This course focuses on techniques law enforcement professionals employ in investigating terrorism. Strategic, political, social and religious underpinnings of terrorism are examined, as are current challenges, laws and policies in defense of the U.S. homeland. Preparations for, and responses to, terrorist attacks are covered. *Prerequisite: CRMJ310 / 3-3*

## DATABASE MANAGEMENT

**DBM405A Advanced Database with Lab***^
This course introduces database implications of efficient and effective transaction processing, including error handling, data validation, security, stored procedures and triggers, record locking, commit and rollback. Data mining and warehousing are also explored. Oracle is the primary relational database management system (RDBMS) used. *Prerequisite: CIS336 / 5-4*

**DBM405B Advanced Database with Lab***
This course introduces database implications of efficient and effective transaction processing, including error handling, data validation, security, stored procedures and triggers, record locking, commit and rollback. Data mining and warehousing are also explored. DB2 is the primary relational database management system (RDBMS) used. *Prerequisite: CIS336 / 5-4*

**DBM438 Database Administration with Lab***^
Students are introduced to a variety of database administration topics, including capacity planning, database management system (DBMS) architecture, performance tuning, backup, recovery and disaster planning, archiving, reorganization and defragmentation. *Prerequisite: DBM405A / 5-4*

**DBM449 Advanced Topics in Database with Lab***^
Students in this course explore database topics such as dynamic structured query language (SQL), complex queries, data warehousing, reporting capability creation, performance tuning, and data security practices and technologies. *Prerequisite: DBM438 / 5-4*

## DIGITAL HOME TECHNOLOGY INTEGRATION

**DHTI202 Digital Home Technology Integration I with Lab***
This course focuses on knowledge and skills needed to configure, integrate, maintain and troubleshoot electronic/digital audio, video and telephone systems including IP telephony. Also addressed are home computer networks including wireless media. In the lab, students install and configure audio and video equipment as well as computer networks. *Prerequisites: ECT246, and NETW202 or NETW203 / 5-4*

**DHTI204 Digital Home Technology Integration II with Lab***
This course focuses on skills and knowledge needed to configure, integrate, maintain and troubleshoot electronic/digital security and surveillance systems, as well as home and office automation and control systems. In the lab, students install and configure security and surveillance systems. *Prerequisite: DHTI202 / 4-3*

## ELECTRONICS AND COMPUTER ENGINEERING TECHNOLOGY

**ECET105 Digital Fundamentals with Lab ^**
This course introduces digital technology and emphasizes fundamentals of digital logic design. Topics include Boolean algebra, truth tables, timing diagrams and logic gates. Application of concepts focuses on combinatorial circuits using both fixed-function and programmable logic devices (PLDs). Coursework emphasizes circuit analysis; design and troubleshooting; and using simulation programs and test equipment. Also addressed are basic interpersonal and communication skills such as effective teamwork and professional report writing. *Corequisite: MATH190; prerequisite: CEIS100 / 3-2*

**ECET110 Electronic Circuits and Devices I with Lab***
This course, the first in a three-course sequence, introduces concepts of electrical and electronic circuit analysis and design. The course focuses on electrical circuits composed of passive components (resistors, capacitors and inductors) and a DC source. Practical experience is gained through circuit simulation, construction, testing and troubleshooting using these fundamental circuits. *Corequisite: MATH190 / 5-4*

**ECET210 Electronic Circuits and Devices II with Lab***
This course, the second in a three-course sequence, is designed to further students' knowledge of electrical circuit analysis, and electronic circuit analysis and design. Emphasis is on AC analysis of circuits consisting of passive elements, and coursework incorporates techniques such as total impedance and phasor diagrams. Rectifiers and power supply circuits are also covered. *Prerequisite: ECET110 / 5-4*

**ECET220 Electronic Circuits and Devices III with Lab***
This course, the third in a three-course sequence, expands on concepts of electrical circuit analysis, and analysis and design of electronic circuits. *Prerequisite: ECET210 / 5-4*

**ECET230 Digital Circuits and Systems with Lab***
This course introduces design and analysis of digital circuits – bases for all computer systems and virtually all other electronic systems in use today. Topics include combinational and sequential logic, digital integrated circuit electrical characteristics, programmable logic devices and hardware description languages. Students use development and analysis software and instrumentation for circuit verification. *Corequisite: ECET220; prerequisites: COMP122, ECET105 and ECET210 / 5-4*

**ECET299 Technology Integration I***^
In this course, students apply and integrate concepts learned in computer programming, mathematics, and electronics and computer engineering technology courses in the first four semesters of the program by solving problems in the particular discipline or subject area. The minimum requirement to pass this course is 70 percent, and grades of D are not assigned. *Prerequisite: Completion of at least 40 credit hours in required COMP, ECET and MATH courses, including COMP274, ECET220, ECET230 and MATH270 / 2-1*

**ECET301 Conservation Principles in Engineering and Technology with Lab***
This course examines conservation laws of mass, energy, charge and momentum. Students apply fundamental engineering concepts to problems in statics, dynamics, fluid mechanics, electrical circuits and thermodynamics. In the lab, students model systems presented in case studies involving alternative energy deployment, biomedical technologies and industrial process controls. *Prerequisites: BIOS135, PHYS320 and SCI204 / 4-3*

**ECET310 Communications Systems with Lab*^**
This course introduces analog and digital communications systems at the circuit and subsystem level. Topics include the relationship between time domain and frequency domains, bandwidth requirements of various modulation schemes and noise effects. Using computer software, students simulate, analyze and solve related problems. *Prerequisites: ECET220 and ECET230 / 5-4*

**ECET330 Microprocessor Architecture with Lab*^**
This course introduces internal architecture of the microprocessor – the basic building block of current electronic systems. Students use assembly language and/or high-level language to program the microprocessor and develop simple algorithms. Applications of the microprocessor as a computing element used with storage devices and embedded controllers are covered. Computer software tools such as assemblers, compilers and IDEs are used for program design, implementation and testing. *Prerequisites: COMP274 and ECET230 / 5-4*

**ECET340 Microprocessor Interfacing with Lab*^**
This course introduces microprocessor interfacing to peripheral devices. Basic input/output operations are evaluated, and specific peripheral devices – including A/Ds, D/As, keyboards, displays, and serial and parallel communication channels – are studied. Software (high-level and assembly) and hardware aspects of these devices are developed. Polling and interrupt-driven software drivers are compared and contrasted. Integration and testing of designs are emphasized. *Prerequisites: ECET299 and ECET330 / 5-4*

**ECET345 Signals and Systems with Lab*^**
This course presents fundamental concepts of signals and systems, which are classified and analyzed in both time and frequency domains. Topics include Fourier, LaPlace and z-transforms; frequency analysis; convolutions; and linear, time-invariant (both continuous and discrete) systems. *Prerequisites: ECET340 and MATH270 / 5-4*

**ECET350 Signal Processing with Lab*^**
This course introduces analog signal processing (ASP) and digital signal processing (DSP), with emphasis on DSP. Students program ASP and DSP chips for applications in communications, control systems, digital audio processing and digital image processing. They also use computer software to simulate ASP and DSP circuit performance, and to analyze data acquired in the lab. *Prerequisites: ECET220 and ECET345 / 5-4*

**ECET360 Operating Systems with Lab***
This course introduces basic operating system concepts such as process states and synchronization, multiprocessing, multiprogramming, processor scheduling, resource management, static and dynamic relocation, virtual memory, logical and physical input/output, device allocation, disk scheduling and file management. Also introduced are techniques required to develop device drivers. Computer software is used throughout the course. *Prerequisite: ECET370 / 5-4*

**ECET365 Embedded Microprocessor Systems with Lab*^**
Students in this course use an embedded microcomputer to control electrical and/or mechanical systems. Students design and develop various applications involving data acquisition and control. System development and engineering tradeoffs are emphasized to demonstrate best design practices. *Prerequisite: ECET340 / 5-4*

**ECET370 Data Structures and Algorithms with Lab*^**
This course introduces data structures (lists, strings, stacks, queues, trees), data encapsulation, as well as algorithms for recursion, sorting and searching. A high-level language such as C++ or Java is used. *Prerequisite: COMP274 / 5-4*

**ECET375 Data Communications and Networking with Lab*^**
This course introduces principles of data communications, including noise effects, multiplexing and transmission methods. Coursework also covers protocols, architecture, and performance analysis of local and wide area networks. *Prerequisite: ECET340 / 5-4*

**ECET380 Wireless Communications with Lab*^**
This course introduces principles and techniques used to analyze and design wireless communication systems. Topics include electromagnetic waves, antennas, propagation and digital modulation. Mobile and cellular systems are emphasized; other selected applications such as wireless local area network (WiFi), broadband wireless (WiMAX) and Bluetooth (wireless PAN) are also covered. Students use computer software to simulate, analyze and solve problems. *Prerequisite: ECET310 / 5-4*

**ECET390 Product Development*^**
This course examines the product development cycle from initial concept through manufacturing. Coursework addresses project management, total quality management, codes and standards, prototype development, reliability, software engineering and product testing. Each student team prepares a written proposal for a senior project and makes an oral presentation of the proposal to the class. The approved proposal forms the basis for the capstone project, which is developed and completed in the subsequent series of lab courses. *Prerequisites: ECET299, ECET330, ECET345 and ECET350 / 3-2*

**ECET402 Mechatronics with Lab*^**
This course introduces electronic control of mechanical systems. Topics include sensors and transducers, signal conditioning, actuators, controllers, system models, system transfer functions and dynamic system response. Students use computer software to analyze, simulate and solve problems. *Prerequisites: ECET340 and ECET350 / 5-4*

**ECET405 Industrial Process Control Systems with Lab***
This course introduces industrial control systems based on programmable logic controllers, as well as other computer-based industrial control systems. Computer software helps students simulate, analyze and solve problems. *Prerequisite: ECET402 / 5-4*

**ECET410 Control Systems Analysis and Design with Lab*^**
This course introduces theory and application of analog and digital control systems, with emphasis on digital. Control system performance is analyzed from stability, steady-state response and transient response viewpoints. Students use computer software to simulate, analyze and solve problems. *Prerequisite: ECET402 / 5-4*

**ECET420 Real-Time Operating System Design with Lab***
This course introduces characteristics of operating systems required to support embedded microprocessor systems and how these systems differ from conventional operating systems. Coursework covers "hard" and "soft" real-time operating systems and includes topics such as threads, scheduling, priority and inter-process communication. Students use computer software such as assemblers and compilers in the course. *Prerequisite: ECET365 / 5-4*

**ECET425 Broadband Communications with Lab*^**
This course introduces systems concepts in communications. Topics include microwaves, antennas, transmission lines, propagation, fiber optic systems and satellite systems. System performance measurements and applications are also addressed. Students use computer software to simulate, analyze and solve problems. *Prerequisite: ECET310 / 5-4*

### ECET430 Advanced Digital Signal Processing with Lab*

This course examines advanced topics in digital signal processing, including finite and infinite-impulse response filtering, fast Fourier transforms and adaptive filtering. Students use computer software to simulate performance of digital signal processing circuits discussed in class and to analyze data acquired in the lab. *Prerequisite: ECET350 / 5-4*

### ECET450 Database System Design with Lab*

This course introduces structured query language (SQL) for implementing and accessing a relational database. Also covered is how to embed SQL into a high-level language such as C++ or Java. *Prerequisite: ECET370 / 5-4*

### ECET460 Network Security with Lab*^

This course introduces techniques used to ensure secure transmission of packets across large, multi-layer enterprise networks. Security issues include encryption and authentication, firewall implementation and creation of virtual private networks (VPNs) to secure data transmitted across a public network such as the Internet. *Prerequisite: ECET375 / 5-4*

### ECET465 Advanced Networks with Lab*^

This course introduces advanced topics in local and wide area network design. Coursework examines protocols, internetworking, routing/congestion, network topologies and performance analysis. Topics of current interest such as wireless networking and Voice over Internet Protocol (VoIP) are also discussed. *Prerequisite: ECET375 / 5-4*

### ECET490 Distributed Computing System Design with Lab*

This course introduces techniques used to develop a distributed computer system in a networked environment. Protocols, flow control, buffering and network security are covered. Coursework focuses on design of a distributed computing system and its implementation in the lab. *Prerequisite: ECET450 / 5-4*

### ECET492L Senior Project Development Lab I*^

Working in teams, students in this first course in a three-course sequence initiate development of the senior project approved in ECET390. Teams submit written progress reports and make oral presentations describing the project to the class. This course must be taken at DeVry. *Prerequisites: ECET390 and permission from the appropriate academic administrator / 2-1*

### ECET493L Senior Project Development Lab II*^

This course, the second in a three-course sequence, requires student teams to complete prototype development of their senior project. Teams submit written progress reports and make oral presentations describing project progress. This course must be taken at DeVry. *Prerequisite: ECET492L / 2-1*

### ECET494L Senior Project Development Lab III*^

In this final course of the three-course project development lab sequence, student teams complete development of the senior project. Teams submit written progress reports, make oral presentations describing project progress, and provide concluding written and oral presentations. This course must be taken at DeVry. *Prerequisite: ECET493L / 2-1*

### ECET495 Specialized Technologies with Lab* ^

This course explores emerging or advanced areas of technology. Students apply analysis, design, testing, implementation and engineering project management techniques to diverse subject areas such as healthcare technology, robotics, satellite communications, cloud computing, cyber security, enterprise computing systems, nano- and mobile technology, and energy/power systems, or to other relevant engineering technology subject areas. *Prerequisites: Successful completion of 89 semester-credit hours and permission from the appropriate academic administrator / 5-4*

### ECET497 Technology Integration II*^

In this course, students review math, science, electronics and program-specific engineering technology concepts and then work to solve problems related to these concepts. The minimum requirement to pass this course is 70 percent, and grades of D are not assigned. *Prerequisites: ECET340; ECET350; PHYS320; and either BMET323, ECET310, ECET450 or REET300 / 2-1*

## ELECTRONIC COMMERCE

### ECOM340 Internet Marketing*^

This course provides a review of traditional marketing strategies and demonstrates their use in building a viable online business. Emphasis is placed on coordinating Internet marketing activities with existing traditional marketing. Steps to develop a company's Internet presence are also discussed. *Prerequisite: BUSN319 / 4-4*

## ECONOMICS

### ECON312 Principles of Economics^

This course introduces basic concepts and issues in microeconomics, macroeconomics and international trade. Microeconomic concepts, such as supply and demand and the theory of the firm, serve as foundations for analyzing macroeconomic issues. Macroeconomic topics include gross domestic product (GDP), and fiscal and monetary policy, as well as international topics such as trade and exchange rates. The course stresses analyzing and applying economic variables of real-world issues. *Prerequisites: ENGL112; and MATH104, MATH114 or placement into MATH190 / 3-3*

### ECON315 Microeconomics^

Building on principles introduced in ECON312, this course focuses on microeconomic topics dealing with market forces and the behavior of individual consumers, firms and industries. Key areas emphasized are supply and demand, competition, market structure, utility theory, production costs, labor markets and the role of government in the economy. *Prerequisite: ECON312 / 3-3*

### ECON410 Environmental Economics

This course introduces the concept of applying economic models to the environment (air, water, land). Systems that interface with the environment, processes that use materials from the environment, and waste products of systems and processes are analyzed with economic models providing insight into managing businesses and our lives in a sustainable fashion. *Prerequisite: SOCS325 / 4-4*

## ELECTRONICS AND COMPUTER TECHNOLOGY

### ECT109 Introduction to Programming with Lab*^

This course familiarizes students with programming logic, including basic control structures, modularization and systems programming. Using high-level languages such as flowchart-based languages, students apply programming concepts to technical problems. *Prerequisite: COMP129 / 5-4*

### ECT114 Digital Fundamentals with Lab*^

This course introduces basic digital logic and methods used in troubleshooting digital systems. Operation of basic logic gates, Boolean expressions and combination logic in fixed-function and programmable forms is explained. Through in-class activities, students create, simulate and download digital circuit configurations to complex programmable logic devices (CPLDs) using CPLD-based software. *Prerequisite: ECT109 / 5-4*

*Note: Courses marked with an asterisk (\*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.*

### ECT122 Electronic Systems I with Lab*^
This course introduces basic electricity and electrical circuit concepts. Topics include calculation of current, voltage, resistance and power in series, parallel and combination circuits. Lab exercises develop skills in areas such as reading schematic diagrams, using electronics components to fabricate basic circuits, measuring circuit parameters and troubleshooting. Students operate lab equipment and learn basic lab safety. *Corequisite: MATH103 / 5-4*

### ECT125 Electronic Systems II with Lab*^
The nature of alternating current is explored through study of reactance, transformers, resonant circuits and passive filters. Mathematical concepts such as logarithms and trigonometry are studied and applied for analyzing AC circuits. In addition, students use computer simulation to predict circuit behavior and develop proficiency in using lab equipment such as oscilloscopes, function generators, counters and multimeters to enhance their troubleshooting skills. *Prerequisites: ECT122 and MATH103 / 5-4*

### ECT246 Electronic Systems III with Lab*^
Building on previous coursework, this course introduces solid-state devices such as diodes, bipolar and field effect transistors, and operational amplifiers, as well as their use in signal processing applications such as amplification and filtering. Adders/subtractors, comparators and oscillators are included. Students gain proficiency in working with integrated circuits, and in building and troubleshooting power supplies and operational amplifier applications, while increasing their expertise in using circuit simulators and standard lab equipment. *Prerequisite: ECT125 / 5-4*

### ECT253 Achievement Assessment*^
Exercises in this course help assess students' knowledge and reinforce core principles and technologies addressed in early terms of the Electronics & Computer Technology program. Topics include analog circuits, digital systems, devices, information technology, and basic science and mathematical concepts and principles. The minimum requirement to pass this course is 70 percent, and grades of D are not assigned. *Prerequisites: ECT114; ECT246; NETW202 or NETW203; and PHYS204 / 2-1*

### ECT263 Communications Systems with Lab*^
This course covers basic communications systems at the circuit and subsystem levels. Topics include signal analysis and troubleshooting for analog and digital communications systems. The effects of noise are presented. Through lab exercises, students analyze signals and troubleshoot communications systems' performance. Electronic design automation (EDA) software is used to predict system performance. *Prerequisite: ECT246 / 5-4*

### ECT264 Sensors and Instrumentation with Lab*
This course covers sensors, transducers, signal conditioning devices and computer-based instrumentation. Input/output (I/O) characteristics of sensors for pressure, distance, light, airflow, temperature, Hall effect and humidity are evaluated using data acquisition equipment and virtual instrumentation. Emphasis is placed on industrial applications, troubleshooting and determining I/O requirements to interface actuators such as AC, DC, stepper and servo motors to programmable logic controllers (PLCs). Lab activities provide experience with three-phase power distribution, robotics, PC-based controls and instrumentation, and DeviceNet. *Prerequisites: ECT246 and PHYS204 / 4-3*

### ECT266 Wireless Communication Systems with Lab*
This course provides system-level understanding of wireless systems including cellular and satellite communications. Topics include cellular and mobile radio architectures using analog and digital modulation and multiplexing technologies (FDMA, TDMA, CDMA and GSM), as well as troubleshooting of cellular systems. The wireless-wireline interface – required for understanding how calls between wireless systems and the existing public switched telephone networks (PSTNs) are completed – and the asynchronous digital subscriber line (ADSL) technology used for transmitting multimedia, are explained. *Prerequisite: ECT263 / 4-3*

### ECT270 Semiconductor Manufacturing with Lab*
This course provides coursework and lab experience with the semiconductor manufacturing process and prepares graduating students for entry-level positions in the integrated circuit manufacturing industries. *Prerequisites: ECT246 and PHYS204 / 5-4*

### ECT274 Embedded Microprocessor Applications with Lab*^
This course introduces embedded microprocessor systems and troubleshooting. Coursework examines subsystems such as memory, pulse-width modulation, as well as analog-to-digital and digital-to-analog converters. In the lab, students gain experience with embedded microprocessors by programming and troubleshooting high-level languages. *Prerequisites: ECT114 and ECT246 / 5-4*

### ECT284 Automation and Control Systems with Lab*^
This course focuses on process controls and automation that employ programmable logic controllers (PLCs). Applications include selecting hardware, such as processor architecture; input/output (I/O) module wiring; programming; installing controllers and system troubleshooting. Proportional integral derivative (PID) principles, software implementation of PID controls and tuning for optimizing automation applications are explored. Plant floor communication architectures such as Ethernet, Data Highway and DeviceNet are also included. Lab exercises provide experience with various controllers and interfaces. *Prerequisites: ECT246 and PHYS204 / 5-4*

### ECT295L Applied Project Lab*^
Students select a pre-designed solution from a given list of real-world engineering problems for implementation and evaluation. A written report and an oral presentation are required. *Prerequisites: ECT253 and ECT284 / 2-1*

## ENGLISH COMPOSITION

### ENGL062 Introduction to Reading and Writing^
This preparatory course is designed to enhance students' reading and writing skills so they can effectively complete other courses in their program of study. Coursework focuses on process-based activities designed to develop pre-reading, reading and responding skills, as well as pre-writing, writing and revising skills that promote critical thinking. An integrated approach links reading with writing and addresses basic grammar integral to the writing process. The minimum requirement to pass this course is 80 percent, and grades of C and D are not assigned. The final grade earned in this course is not used in GPA calculations, and credit hours earned are not applicable to credit hours required for graduation. Eligibility to enroll in the course is based on placement results. / 4-4

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

**ENGL108 Composition with Lab^**
This course introduces elements of composition through analysis of essays, articles and other written works. Readings are used as models for writing practice and development. Writing assignments stress process approaches, revision and audience awareness. Word processing and electronic communication tools support the composition process. Students who receive credit for this course may not also receive credit for ENGL112. Eligibility to enroll in the course is based on placement results or successful completion of ENGL062. / 5-3

**ENGL112 Composition**
This course develops writing skills through analysis of essays, articles and other written works that are used as models for writing practice and development. Writing assignments stress process approaches, development, organization, revision and audience awareness. Students use word processing and web-based tools to develop written work. Students who receive credit for this course may not also receive credit for ENGL108. Eligibility to enroll in the course is based on placement results or successful completion of ENGL062. / 4-4

**ENGL135 Advanced Composition^+**
This course builds on the conventions and techniques of composition through critical reading requirements and longer, more sophisticated reports, including a documented library research paper. Assignments require revising and editing for an intended audience. Students are also taught search strategies for accessing a variety of print and electronic resources. *Prerequisite: ENGL108 or ENGL112 / 4-4*

**ENGL206 Technical Communication^**
Students in this course apply writing skills to common business and technical correspondence such as memos, letters and brief reports. They also adapt written materials for oral presentation and explore the research process. The highlight of the course is a brief research project presented in both written and oral forms. *Prerequisite: ENGL108 or ENGL112 / 3-3*

**ENGL216 Technical Writing^**
This course builds on basic composition principles and focuses on common technical and workplace documents including descriptions; instructions; procedures; reports; proposals; analyses; and other types of applied writing, such as memos and letters. Students apply a writing process strategy and guidelines for audience analysis, effective technical style, organizational strategies and visual aids. *Prerequisite: ENGL108 or ENGL112 / 4-4*

**ENGL219 Journalism**
This course provides instruction and practice in gathering news, and in writing news stories and various types of feature articles. Emphasis is placed on developing skills in interviewing, observing, and writing and editing copy. Students also explore newspaper composition, desktop publishing, newspaper design, journalistic ethics and press law. Peer review and involvement with the student newspaper are integral parts of the course. *Prerequisite: ENGL112 / 4-4*

**ENGL220H Creative Writing – Honors Option**
This course is offered in a workshop setting. Students explore modes of written self-expression, including poetry, fiction and drama, to experience various literary genres and produce short creative works. They also learn to apply constructive feedback to the rewrite process. A student writing anthology is produced, and the course culminates in a study of the literary marketplace. *Prerequisite: Permission from the academic administrator / 4-4*

**ENGL227 Professional Writing^+**
This course extends composition principles to writing in a career context. Through a process-oriented approach, students learn to create effective reports and correspondence. Major emphasis is given to the principles of professional writing in common applications. Studies include electronic communication and oral reporting. Students may also learn to create web pages for communication purposes. *Prerequisite: ENGL108 or ENGL112 / 4-4*

**ENGL230 Professional Communication**
This course enhances students' writing and presentation skills for academic applications and professional communication in the workplace. Students analyze the needs of divergent audiences, and craft messages using technology tools and media appropriate for distance and group communication. An emphasis on collaborative work further prepares students for the contemporary work environment. *Prerequisite: ENGL112 / 3-3*

## ENTERPRISE COMPUTING

**ESYS306 Enterprise System Architecture and Administration with Lab***
This course introduces mid-range and mainframe system architecture, hardware, configuration and operating system concepts. Students gain understanding of the reasons companies choose mid-range and large-scale systems for their computing environment. *Prerequisite: CIS206 / 5-4*

**ESYS410 Enterprise System Application Development I with Lab***
This course builds on basics of design, coding and scripting, as well as database connectivity for web-based applications. Coursework introduces concepts of data interchange, message exchange, web application components and service oriented architecture (SOA). Programming languages such as Java, PHP and RPG are used to implement business-related web-based applications. *Prerequisites: CIS355A or CIS355B; and ESYS306 / 5-4*

**ESYS430 Enterprise System Application Development II with Lab***
Students in this course build on skills developed in ESYS410. They construct business-oriented programs that incorporate service oriented architecture (SOA) in an integrated computing environment, with a focus on business flexibility and responsiveness to change. *Prerequisites: CIS355A or CIS355B; and ESYS410 / 5-4*

## ETHICS

**ETHC232 Ethical and Legal Issues in the Professions^**
This course provides a framework for decision-making in professional practice. Ethical principles, social responsibility, legal and regulatory requirements, and professional codes of conduct are explored to help students develop a clear perspective and a sense of ownership for choices they make. General principles are applied using examples from professions in specific areas such as electronics and computer technology, network systems administration and health information technology. *Prerequisite: ENGL108 or ENGL112 / 3-3*

**ETHC445 Principles of Ethics^+**
This course provides knowledge of ethics students need to make moral decisions in both their professional and personal lives. Combining moral theories and applied ethics topics, coursework helps students explore traditional and contemporary ethics dilemmas, as well as reflect on and evaluate their moral beliefs. Balancing respect for diversity and claims of universality, the course puts ethics principles in the social and cultural context of the world today. *Prerequisite: ENGL135 / 3-3*

## FINANCE

### FIN351 Investment Fundamentals and Security Analysis*
This course introduces security analysis and valuation, focusing on how to make investment decisions. Topics include the nature of securities, mechanics and costs of trading, the way in which securities markets operate, the relationship between risk and return, equity securities, fixed income securities, portfolio diversification and concepts of valuation. *Prerequisite: BUSN379 / 4-4*

### FIN364 Money and Banking*
This course introduces the global financial system, focusing on the role of financial services companies in money and capital markets. Topics include the nature of money and credit, U.S. banking systems, central bank policies and controls, funds acquisitions, investments and credit extension. *Prerequisite: BUSN379 / 4-4*

### FIN382 Financial Statement Analysis*
This course covers financial statement analysis and interpretation. Topics include techniques used to analyze and interpret financial statements in order to understand and evaluate a firm's financial strength, income potential, working capital requirements and debt-paying ability. *Prerequisite: BUSN379 / 4-4*

### FIN385 Fixed Income Securities and Credit Analysis*
Topics in this course include debt securities characteristics, provisions for paying off bonds, debt market structure, bond investment risk, global bond sectors and instruments, yield spreads and measures, valuation, spot and forward rates, interest rate risk, term structure and volatility of interest rates, bonds with embedded options, mortgage-backed securities, asset-backed securities, trading strategies and credit analysis. *Prerequisite: BUSN379 / 4-4*

## GRAPHIC AND MULTIMEDIA DESIGN

### GMD311 Web Video Fundamentals with Lab*^
Students in this course learn to enhance web presentations through video and audio integration. Technical aspects such as linking files, streaming media and embedded video are covered. *Prerequisite: MDD310 / 5-4*

### GMD341 Advanced Imaging with Lab*^
This course explores advanced techniques for achieving sophisticated visual designs and imagery. Students learn to actualize designs and maximize creative capabilities through use of software such as Adobe Creative Suite. Students also learn techniques to streamline workflow in large projects. *Prerequisites: MDD310 and WGD210 / 5-4*

### GMD371 Advanced Illustration with Lab*^
Students in this project-based course learn advanced drawing and line art techniques, including advanced vector-based illustration. Blending tools, gradients, transparency and various effects are explored. Web illustrations and animations are developed using vector art and common multimedia tools in an integrated development environment. *Prerequisite: MDD310 / 5-4*

### GMD411 3D Model Design and Construction with Lab*^
This course focuses on design and construction of spline models suitable for ray-traced illustration, rendered video and print. Students learn a managed approach to model construction, working from concept sketches to completely articulated models in demonstration projects that emphasize reusability of constructed assets. *Prerequisite: MDD310 / 5-4*

### GMD451 Animation with Lab*^
This course targets the pre-production and production phases of animation design. Students learn to synthesize elements of an animated movie into a storyboard for production. Employing classical animation studio techniques, animations are optimized for digital production environments and delivery using common multimedia tools in an integrated development environment. *Prerequisites: GMD411 and MDD310 / 5-4*

## GLOBAL SUPPLY CHAIN MANAGEMENT

### GSCM206 Managing Operations Across the Supply Chain*^
This course introduces operations and supply chain management, examining the products-to-services spectrum in terms of transformation processes and their impact on the supply chain. Coursework addresses operations and supply chain strategy as related to other functions within an organization and focuses on strategic areas impacting supply chain decision-making. Spreadsheet and presentation software are used as students prepare and analyze potential business solutions and then pre-sent these solutions. *Prerequisite: BUSN115 / 4-4*

### GSCM209 Supply Chain Management Decision Support Tools and Applications*
This course introduces numerical models used as decision-making tools in operations practice and examines how they impact supply chain efficiency. Coursework is designed to enhance students' skills in problem identification and formulation; solution derivation; and decision-making. *Prerequisite: GSCM206 / 4-4*

### GSCM326 Total Quality Management*^
This course presents quality-related procedures and concepts for enhancing goods, services and the entire business environment. Quality planning, assurance and control are covered as parts of a total quality system, and students become familiar with various methods of process control and acceptance sampling, including using control charts and sampling plans. Probability and statistical concepts as related to process control are examined in depth. *Prerequisite: MATH221 / 4-4*

### GSCM330 Strategic Supply and Master Planning*
This course focuses on the supply chain planning process and addresses formal master production scheduling (MPS), materials resource planning (MRP), capacity resource planning (CRP) and inventory techniques required for optimal supply chain efficiencies. Contemporary topics such as the Theory of Constraints are also examined. *Prerequisite: GSCM206 / 4-4*

### GSCM434 Supply Chain Logistics, Distribution and Warehousing*
This course introduces logistics, distribution, transportation and warehousing fundamentals, which form the backbone of supply chain management. Coursework provides end-to-end views of the global supply chain management environment, as well as a holistic view of system objectives related to customer service and total cost issues. *Prerequisite: GSCM206 / 4-4*

### GSCM440 Supply Chain Procurement Management and Sourcing Strategy*
This course examines supply chain management fundamentals, strategy and execution. Coursework examines the role of supply management across the entire supply chain and addresses strategic cost management; make versus buy versus partner decisions; supplier evaluation, selection, assessment and quality assurance; the sourcing/procurement process; and e- and global sourcing. *Prerequisite: GSCM206 / 4-4*

**GSCM460 Global Issues in Supply Chain Management***
Students in this course apply supply chain management tools and procedures to real-world case studies. Coursework emphasizes applying SCM elements in order to enhance supply chain effectiveness and efficiency; analysis, problem solving, prediction and system implementation skills used in best-in-class supply chain organizations; estimating risk; and forecasting business results. *Prerequisite: GSCM206 / 4-4*

## GAME AND SIMULATION PROGRAMMING

**GSP111 Introduction to Game and Simulation Programming***
This course provides a broad overview of the game industry, as well as of the game development and design process. An introduction to programming logic and design is also included. *Prerequisite: Admission to the GSP program / 4-4*

**GSP115 Introduction to Programming in C++ with Lab***
This course introduces basics of designing and coding programs – including using an integrated development environment (IDE) – language syntax, and debugger tools and techniques. Students learn to develop programs that manipulate simple data structures, such as arrays, as well as different types of files. *Prerequisite: CIS115 or GSP111 / 5-4*

**GSP125 Intermediate Programming in C++/OOP with Lab***
This course introduces object-oriented programming concepts including objects, classes, encapsulation, polymorphism and inheritance. Students design, code, test and document programs. *Prerequisite: CIS170C or GSP115 / 5-4*

**GSP215 Computer Systems for Programmers with Lab***
This course covers hardware and software aspects of computer systems – knowledge of which is essential for designing high-performing game engines – that affect game software performance. *Prerequisite: GSP125 / 5-4*

**GSP221 Math Programming for Games***
This course introduces 2D geometry and the application of linear algebra as used in video games and interactive simulation design. Students learn mathematical principles such as parametric and implicit linear equations, the derivative and integral, implementation and application of linear algebra using a vector class, and collision detection between a particle/ball and straight boundaries. *Prerequisites: GSP125 and PHYS216 / 4-4*

**GSP240 Practical Game Design with Lab***
This course focuses on basic elements used to systematically transform a designer's vision into a working game or simulation. Topics include spatial and task design; design integration; control schemes; game balancing; game play mechanics and player interaction; tuning; and types and methods of testing and analysis. *Prerequisite: GSP111 / 5-4*

**GSP261 Introduction to Computer Graphics Modeling and Programming with Lab***
This course introduces principles of 3D computer graphics modeling from the perspectives of the technical modeler and the programmer responsible for creating 3D environments for games and simulations. Students explore methods for 3D modeling, environmental programming and model interaction. *Prerequisites: GSP125 and GSP240 / 5-4*

**GSP281 Simulation Design and Programming with Lab***
This course explores mathematical theories, models and principles fundamental to design and development of computer simulations for study and interpretation of real phenomena; for learning and evaluation tools; and for instructional simulations and in-game simulation event development. *Prerequisite: GSP295 / 5-4*

**GSP295 Data Structures with Lab***
This course examines abstract data structures – including linked lists, stacks, queues, tables, trees and graphs – their uses and programming algorithms required to implement them. *Prerequisite: GSP125 / 5-4*

**GSP315 Artificial Intelligence for Games and Simulations with Lab***
This course covers artificial intelligence methods and techniques related to game and simulation programming. Topics explored include autonomous movement, path finding, decision-making, genre considerations and learning with dynamic programming. *Prerequisite: GSP295 / 5-4*

**GSP321 Physics Engine Development***
This course focuses on programming a physics engine for game and simulation. Students are introduced to calculus, as well as to Newtonian mechanics and linear algebra. Major components of the physics engine – including linear and rotational mechanics, conservation of momentum and energy, collisions between objects, and algorithms and data structures for collision detection and response – are covered. *Prerequisites: GSP221 and MATH190 / 4-4*

**GSP340 Modification and Level Design with Lab***
This course introduces tools and concepts used to create levels for games, including level design, architecture theory, critical path and flow, game balancing, play-testing and storytelling. Working as a team, students create an original modification (MOD) based on a current game engine, creating original levels, characters and content for real-time multi-player and first-person games. *Prerequisite: GSP261 / 5-4*

**GSP361 Applied Development Project I***
Students in this course work individually to apply knowledge and mastered skills to develop small game or simulation programs, or modifications to game or simulation programs. *Prerequisite: GSP315 / 4-2*

**GSP362 Applied Development Project II***
Students in this course work as team members to apply knowledge and mastered skills to design and develop small game or simulation programs, or modifications to game or simulation programs. *Prerequisite: GSP361 / 4-2*

**GSP381 Computer Graphics Programming I with Lab***
This course introduces computer graphics programming. Topics include 2D and 3D rendering, 3D animation, and programming for sound and input/output devices. *Prerequisite: GSP321 / 5-4*

**GSP390 Computer Graphics Programming II with Lab***
Building on the foundation established in GSP381, students explore scene management, terrains, particle effects and advanced techniques in programming computer graphics. *Prerequisite: GSP381 / 5-4*

**GSP410 Software Engineering for Game Programming with Lab\***
This course introduces principles and methodologies of software engineering for game and simulation software development. Processes and tools covered ensure that software products are developed to meet requirements, are tested for reliability, can be effectively maintained, and are delivered on time and within budget. An iterative and incremental development process is introduced as a team approach across the software development life cycle. *Prerequisite: GSP362 / 5-4*

**GSP420 Game Engine Design and Integration with Lab\***
This course introduces the logic and function of game engines, as well as the software core of computer games. Addressed are systems (graphics, input, sound and clock); virtual consoles; 3D graphics renderers; game engine function interfaces; and tools and data as aspects of game engines that facilitate reuse of assets such as graphics, characters, animated machines and levels. *Prerequisite: GSP410 / 5-4*

**GSP465 Multiplayer Networking with Lab\***
This course covers data communication and computer networking topics, including the Open Systems Interconnection (OSI) model. Network architecture, performance and security applicable to multiplayer game environments are addressed. *Prerequisite: Successful completion of 89 semester-credit hours / 5-4*

**GSP470 Multiplayer Online Game Programming with Lab\***
This course introduces player behavior and programming topics unique to online multi-player game environments for role play, casual and virtual world games. Topics include synchronous and asynchronous game design, player interaction, network performance and game system management. *Prerequisite: Successful completion of 89 semester-credit hours / 5-4*

**GSP475 Emerging Technologies with Lab\***
This course explores emerging and advanced topics in game and simulation technology. Students explore advances in technology and their implications for design and development of games and simulations. *Prerequisite: Successful completion of 89 semester-credit hours / 5-4*

**GSP480 Advanced Artificial Intelligence for Game and Simulation Design with Lab\***
Building on the foundation established in GSP315, students explore advanced deterministic and stochastic techniques for implementing artificial intelligence in games and simulations. *Prerequisite: Successful completion of 89 semester-credit hours / 5-4*

**GSP494 Senior Project I\***
Students in this course apply knowledge and mastered skills to develop at least one complete level of a 3D game or simulation. This course must be taken at DeVry. *Prerequisites: GSP420 and permission from the appropriate academic administrator / 2-2*

**GSP497 Senior Project II\***
In this course, a continuation of GSP494, students further apply knowledge and mastered skills to develop at least one complete level of a 3D game or simulation. This course must be taken at DeVry. *Prerequisite: GSP494 / 2-2*

# HEALTH INFORMATION MANAGEMENT

**HIM335 Health Information Systems and Networks with Lab\***
This course builds on coursework in healthcare information systems, and introduces information technologies – architecture, tools, network topologies and devices – that support storage and communication of health information. Also included are telecommunications systems, transmission media and interfaces that provide interoperability of organization-wide healthcare information systems. *Prerequisite: HIT272 or the equivalent / 4-3*

**HIM355 Advanced Classification Systems and Management with Lab\***
This course covers advanced classification systems, as well as application and management of these systems in healthcare organizations. Principles and guidelines for using SNOMED CT and DSM-IV are introduced. Implementation, management, control and quality monitoring of coding applications and processes are covered. Electronic applications for clinical classification and coding are explored. Also addressed are uses of clinical data in healthcare delivery reimbursement systems, and the importance of compliance and reporting requirements. *Prerequisite: HIT272 or the equivalent / 4-3*

**HIM370 Healthcare Data Security and Privacy\***
This course builds on coursework in healthcare delivery systems and regulatory issues, introducing processes, procedures and equipment for data storage, retrieval and retention. Coursework addresses laws, rules and regulations governing access to confidential healthcare information, as well as managing access to, and disclosure of, health information. Coursework focuses on developing and implementing policies, procedures and processes to protect healthcare data security and patient privacy. *Prerequisite: HIT272 or the equivalent / 3-3*

**HIM410 Health Information Financial Management\***
This course builds on coursework in healthcare reimbursement and delivery systems. The accounting system, as well as essential elements of cost/benefit analysis and managerial accounting within the context of healthcare finance and resource management, are addressed. Capital, operating and other budgeting methods are studied in relation to goal attainment and organizational success in healthcare facilities. Reimbursement methodologies for healthcare services and the role of health information management professionals are studied. *Prerequisite: HIT272 or the equivalent / 3-3*

**HIM420 Healthcare Total Quality Management\***
This course addresses knowledge, skills, attitudes and values needed to coordinate quality and resource management programs. Quality planning, assurance and control are covered as parts of a total quality system, as are utilization review and risk management. Also covered are data collection and statistical analysis, as related to performance improvement; and practice-related ethical issues, especially as they relate to quality management in healthcare. *Prerequisite: MATH325 / 4-4*

**HIM435 Management of Health Information Functions and Services\***
This course builds on coursework in health data sources, healthcare delivery systems, and structure and content of the health record. Coursework focuses on principles applied to health information management functions; health data development; and organization, availability and analysis of health information for quality of care and regulatory compliance. Also examined is operation of health information management services to meet the needs of internal healthcare organization information users as well as external users. Health information management staffing and project management are addressed. *Prerequisite: HIT272 or the equivalent / 4-4*

**HIM460 Health Information Management Practicum\***
This course emphasizes managerial aspects of health information management and provides students with practical experience in a health information department or health-related organization. Students apply concepts and skills learned in areas such as department organization and personnel management, financial management, quality and performance improvement, interdepartmental relations, information systems applications, and data security and privacy. Students prepare a written report and present a summary of their practical learning experience. *Prerequisites: Completion of, or current enrollment in, all courses required for the Health Information Management technical specialty and permission from the appropriate academic administrator / 3-3*

## HEALTH INFORMATION SYSTEMS

**HIS410 Health Information Systems I\***
This course introduces healthcare medical and business processes from a software design perspective. Topics include history of – and current topics related to – the healthcare delivery process; healthcare functions supported by hospital IT departments; and interaction between healthcare and business data domains, and medical and allied health professionals. The electronic health record is introduced. *Prerequisite: SEC360 / 3-3*

**HIS420 Health Information Systems II\***
In this course, current technologies, regulations and standards, including picture archiving and communication systems (PACS); the Health Insurance Portability and Accountability Act (HIPAA); 21 CFR Part 11; FDA General Principles of Software Validation; and Health Level Seven (HL7), are explored, as are their effects on software development. Information technologies used to store data, maintain data quality, ensure safety and enforce security are studied. Case studies on electronic health record system introductions are reviewed, and current electronic health record system designs are studied. *Prerequisite: HIS410 / 3-3*

## HISTORY

**HIST225 United States History**
This course examines American history from the formation of the 13 original colonies to the present. Coursework addresses the struggle to define American citizenship and government, development of the nation and a national economy, and racial exclusion in American society. Also examined are the country's transformation to a world power, Reconstruction, resurgence, recession and reform, principles of justice and the American experience. This course fulfills state requirements for Arkansas residents. Students who receive credit for this course may not also receive credit for HIST405. *Prerequisite: ENGL135 / 3-3*

**HIST405 United States History**
This course examines American history from the formation of the 13 original colonies to the present. Coursework addresses the struggle to define American citizenship and government, development of the nation and a national economy, and racial exclusion in American society. Also examined are the country's transformation to a world power, Reconstruction, resurgence, recession and reform, principles of justice and the American experience. Students who receive credit for this course may not also receive credit for HIST225. *Prerequisite: ENGL135 / 3-3*

**HIST410 Contemporary History^**
This course examines major 20th century political, social, economic and technological developments in a global context. It also establishes a context for historical events and suggests relationships among them. The impact of technological innovation on contemporary society, politics, military power and economic conditions is explored. *Prerequisite: ENGL135 / 3-3*

**HIST412 Post-1945 History^**
This course explores major political and historical trends worldwide, from conditions leading to World War II to the present. Major themes include the Cold War, the demise of European colonialism, the struggle for independence and stability in the Third World, the economic emergence of the Pacific Rim, the collapse of the Soviet empire and the impact of technological development. *Prerequisite: ENGL135 / 3-3*

**HIST415 Vietnam and the 20th Century Experience**
This course examines the political, cultural, military and technological contexts and issues of the Vietnam War, from its roots in French colonialism through the U.S. withdrawal from the war, and the reunification of the country. Emphasis is placed on the long-term effects of this conflict on present-day attitudes, policies and events. *Prerequisite: ENGL135 / 3-3*

**HIST417 Emergence of the Modern Era^**
This course provides analysis of ideas, ideologies and geopolitical forces that have shaped the contemporary world. Particular emphasis is placed on concepts influencing science, political and economic systems, social and cultural behavior, and religious beliefs. The course also examines the influence of events on ideas. An analytical research paper serves as a capstone to the course. *Prerequisite: ENGL135 / 3-3*

## HEALTH INFORMATION TECHNOLOGY

**HIT111 Basic Medical Terminology\*^**
This course introduces elements of medical terminology such as foundations of words used to describe the human body and its conditions, terminology for medical procedures, and names of commonly prescribed medications. Spelling, pronunciation and meanings of terms used in a professional healthcare setting are covered, as is recognition of common abbreviations. */ 3-3*

**HIT120 Introduction to Health Services and Information Systems\*^**
This course covers history, organization and current issues in the U.S. healthcare delivery system. Interrelationships among system components and care providers are explored. Licensing, accrediting and regulatory compliance activities are discussed, as are the importance of financial and quality management, safety and security, and the role of health information professionals. The evolution, major application types and emerging trends in health information systems are explored. */ 4-4*

**HIT141 Health Information Processes with Lab\*^**
This course introduces health information functions such as content and format of records; retention and storage requirements; indexes and registries; and forms design. Relationships among departments and clinical providers within a healthcare system are explored, and management concepts are introduced. Hardware, software and communication technology are used to complete health information processes. Fundamentals of database management are applied to health information examples. Practice exercises support learning. *Prerequisite: HIT120 / 5-4*

Note: To successfully complete HIT170, students must meet requirements outlined in Healthcare Practicum and Clinical Coursework Requirements.

**HIT170 Health Information Fundamentals Practicum*^**
Through either an approved external health information management site or an online application, this course provides initial supervised professional practice experience. Practicum competencies reinforce previous coursework and include application of knowledge of – and skills in – health record content, structure, functions and use. Students whose practicum occurs onsite must complete a minimum of 40 clock hours at the site, generally during traditional business hours, and must meet practicum site eligibility requirements. Course objectives for students whose practical experience occurs virtually are accomplished through online activities, simulations and assignments. All students prepare a written report and present a verbal summary of their practical experience. *Prerequisites: HIT111 and HIT141 / 2-2*

**HIT203 International Classification of Diseases Coding I with Lab*^**
This course, the first in a two-course sequence, addresses principals, guidelines, definitions and coding conventions of the International Classification of Diseases-10-Procedural Coding System (ICD-10-PCS). Coursework is designed to help students gain experience needed for accurately dissecting operative reports and building codes in ICD-10-PCS. Also examined are anatomy and code structure for each of the body systems and related sections of ICD-10-PCS; health records; manual and computerized coding methods; and coding references. *Corequisites: BIOS275 and HIT170; prerequisite: BIOS260 / 3-3*

**HIT205 International Classification of Diseases Coding II with Lab*^**
This course, the second in a two-course sequence, introduces clinical vocabularies and classification systems. Principles and guidelines for using the ICD-10-Clinical Modification (ICD-10-CM) system to code diagnoses are introduced. Patient records and exercises using coding manuals and software tools provide further practice in coding and sequencing diagnoses and procedures. Coding ethics, data quality and application of coding principles to electronic record systems are explored. *Prerequisite: HIT203 / 3-3*

**HIT211 Current Procedural Terminology Coding with Lab*^**
Knowledge of clinical classification systems is expanded through presentation of principles of Current Procedural Terminology (CPT-4 or most current version), used to code procedures performed by healthcare providers. Through practice exercises, students assign procedure codes and apply guidelines for assignment of Evaluation and Management (E/M) codes and modifiers to case examples. The purpose and use of the Healthcare Common Procedure Coding System (HCPCS) are reviewed. Application of coding principles to an electronic record system is explored. *Prerequisite: HIT203 / 5-4*

**HIT220 Legal and Regulatory Issues in Health Information*^**
Legal and regulatory issues in healthcare are pursued, with emphasis on their application to healthcare information services and documentation of care. Students explore the rights and responsibilities of providers, employees, payers and patients in a healthcare context. Legal terminology pertaining to civil liability and the judicial and legislative processes is covered. Laws and regulations addressing release of information and retention of records are examined, as are the legal and regulatory issues surrounding confidentiality of information. *Prerequisite: HIT120 / 2-2*

**HIT226 Data Applications and Healthcare Quality with Lab*^**
In the context of quality assessment, students explore use of information technologies for data search and access. Principles of clinical quality, utilization review and risk management are introduced, as are organizational approaches, and regulatory and accreditation implications of quality assessment activities. Methods, tools and procedures for analyzing data for variations and deficiencies are examined and used. Research techniques and statistical methods are applied to transform data into effective informational displays and reports to support a quality improvement program. Case studies and projects reinforce learning. *Corequisite: HIT170; prerequisites: BIS155 and HIT141 / 3-3*

**HIT230 Health Insurance and Reimbursement*^**
Students explore reimbursement and payment methodologies applicable to healthcare provided in various U.S. settings. Forms, processes, practices and the roles of health information professionals are examined. Concepts related to insurance products, third-party and prospective payment, and managed care organizations are explored. Issues of data exchange among patient, provider and insurer are analyzed in terms of organizational policy, regulatory issues and information technology operating systems. Chargemaster management and the importance of coding integrity are emphasized. *Prerequisites: HIT141 and HIT203 / 3-3*

**HIT272 Health Information Practicum Capstone^**
This course provides further supervised practice experience in a health information setting at an approved external site. A minimum of 80 clock hours is required at a site, generally completed during traditional business hours. Skills in areas such as data abstraction and analysis are practiced, and knowledge of record retention and release of information is applied. Application of coding skills, and observation of supervisory and planning activities, are documented. Students prepare a written report and present a summary of their practical learning experience in class. *Prerequisite: Permission from the appropriate academic administrator upon completion of, or concurrent enrollment in, all other HIT courses in the program, except HIT272L / 3-3*

**HIT272L RHIT Certification Preparation^**
This course is designed to prepare students for the Registered Health Information Technician (RHIT) certification exam, which determines aptitude in five competency domains: healthcare data management; health statistics, biomedical research and quality management; health services organization and delivery; information technology and systems; and organizational resources. In the lab, students complete five practice tests and a final mock exam. The minimum requirement to pass this course is 70 percent. This course is graded on a Satisfactory/Unsatisfactory basis. *Prerequisites: HIT226 and HIT230 / 2-0*

## HOSPITALITY MANAGEMENT

**HOSP310 Introduction to Hospitality Management***
This course introduces the major fields within the hospitality industry: lodging, meetings/events, restaurants, casinos and tourism. Operations and management are covered in the context of history, society and leadership. *Prerequisite: BUSN115 / 4-4*

**HOSP320 Foundations of Hotel Management***
This course examines the lodging industry – from its traditional roots to contemporary structures – and addresses management, economics and measurement of hotel operations. Reservation systems, staffing, housekeeping, security and facility maintenance operations are examined and related to management responsibilities. *Prerequisite: HOSP310 / 4-4*

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

**HOSP330 Meetings and Events Management\***
This course introduces event, meeting and convention management – one of the fastest growing segments of the hospitality industry. Coursework addresses the diverse demands of multiple stakeholders who plan, organize, lead and control organized functions. Models of events are introduced, enabling students to explore issues related to sponsorship, venues, staffing, finance, exhibit coordination, contracted services, legal implications, marketing and convention bureaus. *Prerequisite: HOSP310 / 4-4*

**HOSP410 Restaurant Management\***
This course introduces operational and management practices of both startup and established restaurants. Concepts related to mission, marketing strategy and menu are addressed. Financial management of restaurants is examined, including pricing, budgets, cost control, payroll, fixed assets, leasing, and cash and revenue control, as are service and customer relations challenges. *Prerequisite: HOSP310 / 4-4*

**HOSP420 Food Safety and Sanitation\***
This course covers fundamental aspects of food safety, sanitation and food service operations. Coursework is based on the 2001 FDA Food Code and focuses on management of sanitation, factors contributing to unsafe food, food-borne illnesses, food production flow, the Hazard Analysis Critical Control Point system, accident and crisis management, employee training, food safety regulations, and facilities and equipment cleaning and sanitation. *Prerequisite: HOSP310 / 4-4*

**HOSP440 Casino Management\***
This course introduces operating conditions and management responsibilities in casinos, and related properties and services. Gaming history and regulations are covered, as are modern gaming laws, controls, taxes, accounting, reporting, marketing, and the mathematics and statistics of games and casinos. *Prerequisite: HOSP310 / 4-4*

**HOSP450 Tourism Management\***
This course introduces the many interdisciplinary aspects of the growing tourism industry, with emphasis on managerial challenges and responsibilities. The structure and function of major tourism delivery systems are covered, as are social and behavioral aspects of tourism. Additionally, supply and demand for products and services are analyzed, and forecasting demand, revenue and yield management approaches are explored. *Prerequisite: HOSP310 / 4-4*

## HUMAN RESOURCE MANAGEMENT

**HRM320 Employment Law\***
This course provides a comprehensive survey of federal and state laws as they affect the human resource function. Topics include equal employment opportunity, employment agreements, wage and overtime payment, and other regulatory issues. *Prerequisite: BUSN115 / 4-4*

**HRM330 Labor Relations\***
This course provides a perspective on the evolution of interaction between management and labor in a corporate environment. Topics include the American labor movement; federal and state labor laws; and collective bargaining, mediation and work stoppage. *Prerequisite: BUSN115 / 4-4*

**HRM340 Human Resource Information Systems\***
This course focuses on applying technology to developing, maintaining and managing human resource information. Students work with various hardware and software options available for managing the human resource function. *Prerequisites: COMP100 and MGMT410 / 4-4*

**HRM410 Strategic Staffing\***
This course focuses on developing a strategic structure for providing corporations with human resources necessary to achieve organizational goals. Students learn strategies and techniques for planning, recruiting, selecting, training and retaining employees. *Prerequisite: MGMT410 / 4-4*

**HRM420 Training and Development\***
This course examines training and organizational development techniques used by corporations to improve individual and corporate effectiveness. Topics include needs analysis, implementation planning and outcomes assessment for individuals and organizations. *Prerequisite: MGMT410 / 4-4*

**HRM430 Compensation and Benefits\***
This course focuses on how organizations use pay systems and benefit plans to achieve corporate goals. Topics include pay systems design, analysis and evaluation, and legally required and voluntary benefit options. *Prerequisite: MGMT410 / 4-4*

## HEALTH SERVICES MANAGEMENT

**HSM310 Introduction to Health Services Management\***
This course provides an overview of unique characteristics of U.S. healthcare systems, and surveys the major components and their interrelationships. Topics include internal and external influences on delivery of services, healthcare professions and key trends. *Prerequisite: BUSN115 / 4-4*

**HSM320 Health Rights and Responsibilities\***
This course examines legal and ethical issues of healthcare services. Topics include legal relationships among providers, payers and patients, and issues of professional liability. Ethical aspects of rights and duties are explored in a healthcare context. *Prerequisite: HSM310 / 4-4*

**HSM330 Health Services Information Systems\***
This course focuses on applying technology to developing and maintaining health services information systems. Students become familiar with hardware and software options for managing patient records, insurance and billing data. Related policy issues of confidentiality and information security are addressed. *Prerequisites: COMP100 and HSM310 / 4-4*

**HSM340 Health Services Finance\***
This course focuses on the complexities of healthcare financing in the United States. Topics include multiple payment sources and reimbursement systems; problems and issues in financial planning; and trends in healthcare costs and expenditures. *Prerequisite: HSM310 / 4-4*

**HSM410 Healthcare Policy\***
This course focuses on the impact of public policy on healthcare delivery in the United States. Political, social, economic and technological influences are explored, as are cultural values and beliefs regarding health that underlie our policy-making process. *Prerequisite: HSM310 / 4-4*

**HSM420 Managed Care and Health Insurance\***
This course surveys the development of health insurance products and managed care approaches to the financing and delivery of healthcare services in the United States. Fundamental concepts of insurance risk management and various types of managed care organizations are discussed in relation to the consumer, provider and insurer. *Prerequisite: HIT141 or HSM310 / 4-4*

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**HSM430 Planning and Marketing
for Health Services Organizations***
This course presents a framework for planning and implementing marketing initiatives for health services. Topics include market segmentation, targeting, positioning and communication, as well as ethical issues and examples unique to the healthcare industry. *Prerequisites: BUSN319 and HSM310 / 4-4*

## HUMANITIES

**HUMN303 Introduction to the Humanities^+**
This course introduces vital areas of the humanities, such as the visual and performing arts, literature, history and philosophy. Students analyze and evaluate works of art, and develop connections among these works and their historical, cultural and philosophical contexts. Discussions, writings, oral presentations, group activities and visits to cultural venues prepare students for more advanced inquiry in subsequent courses. *Prerequisite: ENGL135 / 3-3*

**HUMN451 Contemporary Fine Arts^+**
This course introduces contemporary fine arts, primarily in areas other than literature. Emphasis may be placed on visual arts such as painting, sculpture, architecture and photography, or the focus may be on music, dance, film and other performance arts. Understanding and appreciation of these art forms are enhanced by relating art fields and stylistic trends to one another as well as to historical developments. *Prerequisite: ENGL135 / 3-3*

**HUMN460SA International Cultural Explorations^**
This course introduces economic, historical and social forces that influence the culture of a given destination in the Study Abroad program. Experientially based, the course offers an overview of relevant arts and artifacts; cultural aesthetics; and the values of family, leisure, religion and work. Topics at the various intersections of culture, society, technology and ethics are emphasized. Practices in commerce, education and governance are also addressed. *Prerequisite: ENGL135 / 3-3*

## HUMAN SERVICES

**HUMS480 Crisis Intervention**
This course explores approaches to intervening in traumatic or dangerous social events precipitated by groups, individuals or environmental factors, with consequences for individuals or groups. Decision-making under time limitations and uncertainty is considered. *Prerequisite: JADM455 or JADM480 / 3-3*

## INTERNSHIP

**INTP491 Internship I^**
Students in this course, the first in a two-course sequence, begin an education-related field experience with a local business or community organization. As they contribute knowledge and skills to a business project or process – and acclimate to a business environment and culture – students gain valuable insight through self-reflection, assessment, and host-business analysis and feedback. In addition to the classroom component, this course requires a minimum of 10 to 12 hours per week of supervised practical experience at an approved external site. *Prerequisites: Successful completion of 70 semester-credit hours and permission from the appropriate academic administrator / 2-2*

**INTP492 Internship II^**
In this course, a continuation of INTP491, students complete their work with a local business or community organization as they gain real-world experience. The internship enables students to apply knowledge and skills to implement specific projects or processes, and provides an environment for developing good work habits and further enhancing communication skills and self-confidence. In addition to the classroom component, this course requires a minimum of 10 to 12 hours per week of supervised practical experience at an approved external site. *Prerequisites: INTP491 and permission from the appropriate academic administrator / 2-2*

## JUSTICE ADMINISTRATION

**JADM100 Introduction to Criminal Justice**
This course surveys the history, structure and practice of the criminal justice system in the United States. Responsibilities and constraints of primary agencies are overviewed, as are basics of institutional and community corrections as well as juvenile justice. */ 3-3*

**JADM110 Introduction to Criminology***
This course examines individual and social theories of crime. Approaches to researching the incidents, types and causes of crime are examined, as are consequences of crime and governmental interventions. Topics also include violent crimes, crimes against property, white-collar and corporate crime, and public disorder crimes. *Prerequisite: JADM100 / 3-3*

**JADM120 Introduction to Policing***
This course introduces the roles and organizations responsible for enforcing the law and affecting social order. History of American policing and issues in contemporary policing are covered. Careers in policing are explored along with trends in types of policing, such as community policing, and new strategies in law enforcement. *Prerequisite: JADM100 / 3-3*

**JADM200 Introduction to Criminal Law***
This course covers the purpose, nature and nomenclature of criminal law, including consequences of noncompliance, elements of a crime, categories of crime, criminal procedures defined by the law, and principles of criminal cases. Constitutional limitations in criminal law are also studied. *Prerequisite: JADM100 / 3-3*

**JADM210 Introduction to Corrections***
This course introduces corrections, including its history. An overview of policy and the goals and operations of the jail, prison, and parole and probation systems are examined, as are current trends in corrections. *Prerequisite: JADM100 / 3-3*

**JADM220 Introduction to Ethics and Criminal Justice***
This course prepares students for ethical situations encountered in the criminal justice arena. Constitutional and religious ethics, along with the more traditional topics of philosophical and professional ethics, are covered. Ethical choices in relation to the "war on terror" are also analyzed. *Prerequisite: JADM100 / 3-3*

**JADM230 Introduction to Juvenile Justice***
This course examines the juvenile justice system through policies, programs and practices associated with juvenile courts, law and procedures. Coursework introduces history and current debates in U.S. juvenile justice. Juvenile deviant behavior, delinquency prevention and the future of juvenile justice are also covered. *Prerequisite: JADM100 / 3-3*

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

**JADM240 Introduction to the Criminal Courts***
This course provides an overview of the American courts and criminal justice system. Coursework examines the courtroom work group, as well as the trial process and challenges to the process, and also reviews the juvenile court system. *Prerequisite: JADM100 / 3-3*

**JADM250 Police Report Writing***
This course covers the most common types of writing required of law enforcement personnel, including narrative reports, proposals, memos, short reports, letters and email, emphasizing clarity and professionalism in communications. Coursework examines how computers and technology are used in the process. *Prerequisite: COMP100 / 3-3*

**JADM260 Community Policing***
This course covers the concept and philosophy of community policing, including its historical origins. Practical strategies and essential skills needed to implement realistic, workable problem-solving within communities are introduced. Prisoner reentry into the community, homeland security initiatives, racial/ethnic diversity in communities, police ethics, the immigration dilemma and prevention of identity theft are considered. *Prerequisite: JADM120 / 3-3*

**JADM270 Correctional Counseling***
This course introduces basic elements of interviewing, counseling, and techniques applicable to the criminal justice and correctional setting. Topics include treatment guidelines, evidence-based counseling practices, research findings, trends and statistics, program evaluations and positions presented in journal review articles. *Prerequisite: JADM210 / 3-3*

**JADM280 Probation and Parole***
This course investigates functions, roles and responsibilities of corrections, probation and parole officers. Tradeoffs between community safety and the cost of imprisonment are considered. *Prerequisite: JADM210 / 3-3*

**JADM300 Multiculturalism in Criminal Justice Systems***
This course covers topics and issues concerning diversity and multiculturalism in today's policing environment. Common situations are studied from the perspectives of culture, race and ethnicity. *Prerequisite: JADM100 / 3-3*

**JADM310 Drugs and Society***
This course examines the effects of drug and alcohol abuse on society, justice institutions and related legislation. Drugs and their effects on the body, current means of treatment, education, rehabilitation, prevention of abuse, theories of use, the drug business and drug law enforcement are also covered. *Prerequisite: JADM100 / 3-3*

**JADM320 Criminal Procedure***
This course addresses individuals' rights under the U.S. Constitution during criminal litigation. The workings of the criminal courts are examined, including investigations, charges and incitements, the grand jury, bail, trial procedures, post-trial and conviction processes. Specific procedures such as acquiring and serving warrants, managing the chain of evidence and securing confessions are covered. *Prerequisite: JADM100 / 3-3*

**JADM330 Victimology***
This course focuses on victimization, including the relationship between criminal offenders and their victims, and treatment of victims in the justice system by police and the courts. Issues of law and protection of victims are covered, as are societal perceptions of victims. *Prerequisite: JADM100 / 3-3*

**JADM340 Criminal Evidence***
This course examines the rules of evidence associated with trials and administrative procedures. The legal boundaries essential to the collection and seizure of admissible evidence and legal interrogation are also covered. *Prerequisite: JADM100 / 3-3*

**JADM350 Research Methods in Criminal Justice***
Current research in criminal justice is examined for methodological approaches, design and analysis, as well as relevance to the field of justice administration. Use of statistics in research is covered. *Prerequisites: JADM100 and MATH221 / 3-3*

**JADM400 Interviewing and Interrogation***
This course covers protocols and techniques used in criminal justice interviews and interrogations, including standards and laws relevant to obtaining statements, admissions and confessions. Integrity of verbal and nonverbal communication is also analyzed. *Prerequisite: JADM120 / 3-3*

**JADM403 Cybercrime***
This course examines criminal activity that uses or threatens computers or networks, including prevention of and controlling high-tech crime. The discipline of information technology, the sociology/anthropology of cyber space, computer security, deviancy, law, criminal justice, risk management and strategic thinking are explored. *Prerequisites: JADM120 and JADM340 / 3-3*

**JADM407 Criminal Investigation***
This course introduces approaches and procedures used to identify and document criminal cases through collecting information about criminal offenses and preparing expert testimony. Topics include dealing with complaints, collecting evidence, recognizing jurisdiction of crimes, following up on clues and witnesses, and suspect and perpetrator identification and apprehension. *Prerequisite: JADM340 / 3-3*

**JADM410 Issues in Policing***
This course examines current issues in policing tactics, systems and communities, as well as societal changes in relation to crime, ethics and potential future considerations. Students identify and use effective problem-solving methodologies and reliable sources of data. *Prerequisite: JADM120 / 3-3*

**JADM413 Police Administration***
Students in this course explore organizational and leadership theory and practice of complex organizations, and apply this understanding to functions and roles in police departments. Organizational design and development, management styles, planning and fiscal approaches, as well as aspects of human resource management, are covered. *Prerequisite: JADM120 / 3-3*

**JADM417 Organized Crime***
This course analyzes organized crime by exploring its evolution from historical origins while considering new and nontraditional criminal groups, their structure and activities. Nomenclature and practice of organized crime investigation, law and control are covered, as are business and political aspects. *Prerequisite: JADM300 / 3-3*

**JADM420 White Collar Crime***
This course covers crimes that are typically nonviolent and committed for financial gain in a business or organizational environment. Detecting such crimes, particularly through financial investigation, and procedures for prosecuting, defending and adjudicating them, are studied. The overlap with corporate crime and organized crime is examined. *Prerequisite: JADM400 / 3-3*

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**JADM423 Terrorism Investigation\***
This course focuses on techniques law enforcement professionals employ in investigating terrorism. Strategic, political, social and religious underpinnings of terrorism are examined, as are current challenges, laws and policies in defense of the U.S. homeland. Preparations for, and responses to, terrorist attacks are covered. *Prerequisite: JADM120 / 3-3*

**JADM427 Crime Scene Investigation\***
This course covers methods and procedures for accurate crime scene examination and recording, as well as evidence recovery. Documentation, collection and preservation of comprehensive physical evidence, gathering of latent fingerprints, and methods used to process trace and biological evidence are examined. *Prerequisite: JADM400 / 3-3*

**JADM430 Correctional Administration\***
Administrative aspects of corrections are examined through analysis of management theory and practice in correctional institutions and agencies. Changes in correctional policies and procedures, as influenced by social and legal factors, are examined, along with current problems, issues, trends and constraints. *Prerequisite: JADM210 / 3-3*

**JADM435 Jails\***
This course introduces operating parameters of what are commonly known as jails. Pre-trial detainees who have not been convicted or sentenced are characterized and discussed. Risk assessment and population management of unknown and potentially violent offenders are explored. *Prerequisite: JADM210 / 3-3*

**JADM445 Deviant Behavior\***
This course provides in-depth examination of theoretical constructs defining deviant behavior, including cultural implications and reactions to deviant behavior and administration of justice. Issues such as sexual and drug-induced deviance within our culture are explored. *Prerequisite: JADM120 / 3-3*

**JADM450 Issues in Corrections\***
This course examines current issues in managing correctional institutions, sentencing trends, contemporary social problems in prisons, rehabilitation/re-socialization practices and alternatives to incarceration. Trend data are analyzed. *Prerequisite: JADM210 / 3-3*

**JADM455 Emergency Management\***
This course deals with emergency or disaster risk mitigation, preparedness, response and recovery. Topics include managing complex organizations and emergency decision-making, interagency cooperation, risk assessment, planning preparations, humanitarian interventions and recovery challenges. *Prerequisite: JADM100 / 3-3*

**JADM460 Disaster Response\***
This course explores various types and phases of disasters, responses that are planned or improvised, and problem avoidance during disasters. Urgent care of disaster victims, search and rescue, dealing with fatalities and models of overall recovery operations are examined. *Prerequisite: JADM455 or JADM480 / 3-3*

**JADM465 Emergency Planning\***
This course explores planning within the overall emergency management field and its relationship to mitigation planning. The purpose, principles, processes and resource aspects of planning are considered for planning teams and organizations, and communication of plans. Governmental organizations and operations for emergency planning are studied. *Prerequisite: JADM455 / 3-3*

**JADM470 Terrorism in Emergency Management\***
This course covers emergency management considerations when terrorist behavior or acts are a factor. Threats, consequences and responses – with an interagency perspective – are considered through the life cycle of emergency management, from preparedness and planning to long-term recovery. *Prerequisite: JADM455 or JADM480 / 3-3*

**JADM475 Technology in Emergency Management\***
This course covers the role of technology in crisis and response management. Students learn to use technology in emergency planning, response, recovery and mitigation efforts, as well as key elements that must be in place for technology to enhance the emergency management process. Operational problems and recovery are analyzed. *Prerequisite: JADM455 / 3-3*

**JADM480 Homeland Security and Terrorism\***
This course provides a foundation for understanding the scope of homeland security, including responsibilities and strategies of the Department of Homeland Security and related government agencies. Types and sources of terrorism, as well as methods for responding to terrorist threats, are examined. *Prerequisite: JADM110 / 3-3*

**JADM485 Security Intelligence Analysis\***
This course investigates intelligence analysis principles and methods as applicable to homeland-security-related case studies and scenarios. Critical thinking skills and application of structured analytical techniques are emphasized. *Prerequisite: JADM480 / 3-3*

**JADM490 Senior Project I\***
In this course, the first in a two-course sequence, students apply knowledge and mastered skills, including problem-solving techniques, research and oral/written communication to real-world projects in a justice administration environment. Working individually or in teams, students draw on knowledge and competencies developed through prior coursework. *Prerequisites: ENGL216, ENGL219 or ENGL227; JADM350; and permission from the appropriate academic administrator / 2-2*

**JADM494 Senior Project II\***
In this course, a continuation of JADM490, students further apply their knowledge and mastered skills, including problem-solving techniques, research and oral/written communication to real-world projects in a justice administration environment. Working individually or in teams, students apply knowledge and competencies as they prepare and present final work deliverables. *Prerequisite: JADM490 / 2-2*

## LIBERAL ARTS AND SCIENCES

**LAS432 Technology, Society, and Culture^+**
In this capstone course, the relationship between society and technology is investigated through reading, reflection, research and reports. The course identifies conditions that have promoted technological development and assesses the social, political, environmental, cultural and economic effects of current technology. Issues of control and ethical considerations in the use of technology are primary. Discussion and oral and written reports draw together students' prior learning in specialty and general education courses. This course must be taken at DeVry. *Prerequisites: Successful completion of 89 semester-credit hours and all general education requirements except courses with the prefix CARD, and permission from the appropriate academic administrator / 3-3*

## LEGAL ISSUES

### LAWS310 The Legal Environment^
This course examines the North American legal system, focusing on aspects of the law as they relate to social, economic and ethical issues. Students explore regulatory matters, intellectual property, employer-employee relationships, antitrust, environmental issues, consumer protection, and civil versus criminal law distinctions. / 3-3

### LAWS420 Legal and Ethical Issues+
Students in this course explore contemporary ethical and regulatory issues within professions through evaluation of ethical and legal principles and their application to particular fields of endeavor. Concepts of professionalism and of values related to professional practice are addressed through a variety of methods, including case studies and analyses. A critical look at organizational and professional codes of ethics is included. *Prerequisite: ENGL135 / 3-3*

## LITERATURE

### LTRE421 Studies in Literature^
This course introduces literature in social, historical and cultural contexts. Through readings from various historical periods and cultures, students learn genres, forms and elements of literature. In discussions and assignments, they use analysis and critical thinking to reveal the complexity and richness of language, the diversity and commonality of human experience and the ethical dimensions of literary works. Literature's relevance to society and culture emerges from its connections to nonliterary texts. *Prerequisite: ENGL135 / 3-3*

### LTRE422 Film and Literature^
This course introduces contemporary narrative literature and film/video. The course stresses narrative techniques of both media and also highlights differences between them. Students' understanding and appreciation of these art forms are developed through study of paired works highlighting specific artistic techniques of each medium. *Prerequisite: ENGL135 / 4-3*

### LTRE424 Science Fiction^
This course develops students' appreciation and understanding of science fiction stories, novels and films. Textual analysis highlights language and narrative techniques, including characterization, plot, setting, metaphor and other elements. Works are also evaluated in relation to their social and historical contexts, with particular focus on science and technology developments. *Prerequisite: ENGL135 / 3-3*

### LTRE427 Studies in Poetry^
Through written and oral poetry, this course provides a foundation for poetic analysis and appreciation within a rich aesthetic experience. Coursework includes readings, discussions, papers and journals, and may also incorporate poetry writing. *Prerequisite: ENGL135 / 3-3*

### LTRE428 Dramatic Literature^
This course introduces the dramatic genre and enables students to analyze and evaluate both written plays and live performances. Through reading plays and critical texts from various historical periods and writing critical papers, students learn to assess formal elements of dramatic writing together with thematic content and historical context. Students watch live or filmed performances, extending their ability to develop critical understanding of theater as a social and artistic phenomenon. *Prerequisite: ENGL135 / 4-3*

## MATHEMATICS

### MATH062 Beginning Algebra^
This course introduces critical elements of algebra for linear equations and inequalities. Coursework progresses from order of operations and combining like terms through addition and multiplication rules for solving linear equations. Students then apply these rules to inequalities. Graphing in two variables is introduced, as are exponents, polynomials and polynomial operations. The minimum requirement to pass this course is 80 percent, and grades of C and D are not assigned. The final grade earned in this course is not used in GPA calculations, and credit hours earned are not applicable to credit hours required for graduation. Students who receive credit for this course may not also receive credit for MATH103. Eligibility to enroll in the course is based on placement results. / 4-4

*Note: Students in selected programs take Beginning Algebra under the MATH103 course designator for graduation credit. In other programs the course is taken as a transitional studies course, MATH062, and does not carry graduation credit.*

### MATH103 Beginning Algebra
This course introduces critical elements of algebra for linear equations and inequalities. Coursework progresses from order of operations and combining like terms through addition and multiplication rules for solving linear equations. Students then apply these rules to inequalities. Graphing in two variables is introduced, as are exponents, polynomials and polynomial operations. The minimum requirement to pass this course is 80 percent, and grades of C and D are not assigned. Students who receive credit for this course may not also receive credit for MATH062. Eligibility to enroll in the course is based on placement results. / 4-4

### MATH104 Algebra for College Students^
This course focuses on factoring polynomials; solving quadratic equations; systems of linear equations; matrices; radical and rational expressions; fractional exponents; and functions where linear and quadratic functions are emphasized using application problems and modeling. The minimum requirement to pass this course is 80 percent, and grades of C and D are not assigned. The final grade earned in this course is not used in GPA calculations, and credit hours earned are not applicable to credit hours required for graduation. Students who receive credit for this course may not also receive credit for MATH114. Eligibility to enroll in the course is based on placement results, or successful completion of MATH062 or MATH103. / 4-4

### MATH114 Algebra for College Students^
This course focuses on factoring polynomials; solving quadratic equations; systems of linear equations; radical expressions; and functions where linear and quadratic functions are emphasized using application problems and modeling. The minimum requirement to pass this course is 80 percent, and grades of C and D are not assigned. Eligibility to enroll in the course is based on placement results, or successful completion of MATH062 or MATH103. / 4-4

**MATH118 Algebra for College Students^**
This course focuses on factoring polynomials; solving quadratic equations; systems of linear equations; matrices; radical and rational expressions; fractional exponents; and functions where linear and quadratic functions are emphasized using application problems and modeling. The minimum requirement to pass this course is 80 percent, and grades of C and D are not assigned. Students who receive credit for this course may not also receive credit for MATH104 and/or MATH114. Eligibility to enroll in the course is based on placement results, or successful completion of MATH062 or MATH103. / 4-4

**MATH190 Pre-Calculus^**
This course emphasizes topics that form the foundation for study of electronics, engineering technology, game and simulation programming, and calculus. Topics include analyzing and graphing quadratic, polynomial, rational, exponential, logarithmic and trigonometric functions; and developing complex solutions to problems in rectangular, trigonometric and Euler form. Students use computer software and technology to assist in problem-solving and analysis. The minimum requirement to pass this course is 70 percent, and grades of D are not assigned. Eligibility to enroll in the course is based on placement results or successful completion of MATH104. / 4-4

**MATH211 Statistics for Everyday Life**
This course focuses on statistical reasoning used to evaluate data from fields ranging from politics to healthcare. Descriptive statistics are used to understand sample data, and inferential concepts are incorporated by using data to draw conclusions about populations. Statistical literacy designed to help facilitate understanding and analyzing information in today's technological world is emphasized. *Prerequisite: MATH103 / 4-4*

**MATH221 Statistics for Decision-Making^**
This course provides tools used for statistical analysis and decision-making in business. The course includes both descriptive statistics and inferential concepts used to draw conclusions about a population. Research techniques such as sampling and experiment design are included for both single and multiple sample groups. *Prerequisite: MATH114 / 4-4*

**MATH233 Discrete Mathematics**
This course introduces discrete mathematics as applied to game and simulation programming problems. Topics include logic, sets, Boolean algebra, data representation, counting, probability, randomness, algorithm efficiency, recursion, recurrence relations, Markov chains, graphs and trees. Mathematical reasoning is emphasized throughout. Computer software is used in problem modeling and solutions. *Prerequisites: GSP125 and MATH190 / 3-3*

**MATH260 Applied Calculus I^**
This course, the first in a two-course sequence, provides the basis for solving advanced problems in electronics and computer engineering technology, as well as in physics. Problem-solving in nature, the course covers topics such as functions, limits, differentiation and integration. Students use computer software for analysis and problem-solving. *Prerequisite: MATH190 / 4-4*

**MATH270 Applied Calculus II^**
This course, the second in a two-course sequence, provides further skills for solving advanced problems in electronics and computer engineering technology, as well as in physics. Problem-solving in nature, the course covers sequences and series, and introduces differential and difference equations. Students use computer software for analysis and problem-solving. *Prerequisite: MATH260 / 4-4*

**MATH325 Healthcare Statistics and Research**
In this course, students apply statistical analysis tools and bio-medical research methodologies to health information management processes and cases. Descriptive statistics, nonparametric methods and inferential concepts are used to organize health data and present health information. Vital statistics methods and epidemiological principles are applied. The course also covers research design/methods and research protocols. *Prerequisites: HIT272 or the equivalent, and MATH221 / 4-4*

**MATH450 Advanced Engineering Mathematics I^**
This course, the first in a two-course sequence, addresses ordinary differential equations, the LaPlace transform, and complex numbers and functions. Computer software tools are used to support concepts presented. *Prerequisite: Successful completion of two semesters of undergraduate calculus coursework / 4-4*

**MATH451 Advanced Engineering Mathematics II^**
This course, the second in a two-course sequence, addresses linear algebra; vector differential and integral calculus; and Fourier series, Fourier integral and Fourier transform. Computer software tools are used to support concepts presented. *Prerequisite: MATH450 / 4-4*

## MULTIMEDIA DESIGN AND DEVELOPMENT

**MDD310 Multimedia Standards*^**
This course focuses on generally accepted usability and accessibility standards that are global, industry-wide, or legal for web and other media. In addition, students apply these standards to develop practices, policies and standards for effective management of multimedia projects and assets. *Prerequisite: WGD242 / 4-4*

**MDD340 Business of Graphics*^**
This course focuses on issues critical to leading successful multimedia projects and businesses. Topics include scoping work for clients, legal considerations and financial aspects. In addition, the course introduces management principles applied to creative production. Students develop a pro forma media project plan that uses multiple resources. *Prerequisite: WGD242 / 4-4*

**MDD410 Emerging Multimedia Technologies*^**
This course explores emerging and advanced topics in multimedia. Students explore advances in technology and their implications for design and development of multimedia. *Prerequisite: WGD260 / 4-4*

**MDD460 Senior Project I*^**
Working in teams, students apply knowledge and mastered skills, including multimedia design skills and project management methods, to a professional project to meet the requirements specified within a case study or real-world project. This course must be taken at DeVry. *Prerequisites: ENGL216, ENGL219 or ENGL227; MDD410; and permission from the appropriate academic administrator / 2-2*

**MDD461 Senior Project II*^**
Working in teams, students in this course – a continuation of MDD460 – apply knowledge and mastered skills, including multimedia development skills and project management methods, to complete a professional project to meet requirements specified within a case study or real-world project. This course must be taken at DeVry. *Prerequisite: MDD460 / 2-2*

*Note: Courses marked with an asterisk (\*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.*

## MANAGEMENT

### MGMT303 Principles of Management^
This course examines fundamental management theories and traditional managerial responsibilities in formal and informal organizational structures. Planning, organizing, directing, controlling and staffing are explored. *Prerequisite: BUSN115 / 3-3*

### MGMT330 Business Communication
This course reinforces professional communication competencies and extends essential principles to include advanced messaging strategies for the workplace. Effective methods for creating professional documents, managing routine communication, and conveying technical information and recommendations are addressed. Strategies for orchestrating collaborative writing projects, directing virtual teams and providing feedback on work in progress are emphasized. Also addressed are methods for creating effective oral presentations. *Prerequisites: ENGL216, ENGL219 or ENGL227; and MGMT303 / 4-4*

### MGMT340 Business Systems Analysis*^
This course focuses on analysis of business systems using current techniques to analyze business activities and solve problems. Interviewing skills, group dynamics, and development of process flows, data flows and data models are emphasized. Students learn to identify, define and document business processes and problems, and to develop solutions. *Prerequisite: BIS155 / 4-4*

### MGMT404 Project Management^
This course enhances students' ability to function in a project leadership role. While exploring the project life cycle, they gain experience in budget and timeline management. Project management software is used to design project schedules using methods such as bar charts, program evaluation review technique (PERT) and critical path method (CPM) to produce project plans to apply to the solution of case studies. *Prerequisites: Successful completion of 56 semester-credit hours, and MATH221 or MATH233 / 4-4*

### MGMT408 Management of Technology Resources*^
This course focuses on developing and applying management and business skills in typical technical environments, as well as on technical support operations. Management approaches in resource planning, resource utilization, staffing, training, customer service, cost/benefit analysis and ongoing support are presented. Students apply business skills in developing and evaluating requests for proposal (RFPs) and related acquisition methods, and consider issues related to in-house and outsource solutions. *Prerequisite: ACCT301 / 3-3*

### MGMT410 Human Resource Management*
Students in this course explore contemporary concepts and techniques essential to managing corporate human resources. Topics include resource planning, staffing and rewards, as well as developing and maintaining positions and people. *Prerequisite: BUSN115 / 4-4*

## MARKETING

### MKTG310 Consumer Behavior*^
Students in this course analyze consumer purchasing behavior as it relates to development of marketing mix programs. Important considerations include economic, psychological, cultural, cognitive and social factors. *Prerequisite: BUSN319 / 4-4*

### MKTG320 Market Research*^
Students in this course analyze various market research techniques, including methodology used to gather information for decision-making. Emphasis is placed on methods and techniques for collecting, analyzing, interpreting and disseminating primary and secondary data for final end-use. *Prerequisite: BUSN319 / 4-4*

### MKTG410 Advertising and Public Relations*^
This course introduces the field of advertising and public relations. Topics include media relations; media buying; determining appropriate media; promotions; public relations and publicity development tools; methods for improving customer satisfaction; relationship-building strategies; and ethics in advertising and public relations. *Prerequisite: BUSN319 / 4-4*

### MKTG425 Personal Selling and Sales Management*^
This course examines the roles of personal selling and sales management in supporting organizations' marketing and revenue goals. Professional selling techniques such as prospecting, qualifying, listening, problem solving, and closing and servicing clients are addressed. Students analyze customer situations and develop strategic selling approaches using personal communication and technology platforms. Coursework also addresses skills and processes required for sales management and professional development. *Prerequisite: BUSN319 / 4-4*

### MKTG430 International Marketing*^
This course provides a conceptual framework for marketing internationally, whether exporting or establishing a multi-national enterprise (MNE). Students explore development of international marketing programs, as well as various macroenvironmental factors that affect decision-making in an international setting. *Prerequisite: BUSN319 / 4-4*

### MKTG440 Sustainability Marketing*
This course analyzes marketing functions from a sustainable practices perspective. Opportunities to develop product pricing, channels, promotion and markets are considered as they relate to maximizing producer and consumer value, with attention to societal and environmental considerations. *Prerequisites: BUSN319 and SOCS325 / 4-4*

## NEURODIAGNOSTIC TECHNOLOGY

*Students planning to enroll in any of the following sequenced courses should see* Sequenced Courses *for registration and grading information: NDT221 and NDT222; NDT241 and NDT242; NDT256 and NDT257; NDT266 and NDT267; NDT276 and NDT277; NDT286 and NDT287; NDT296 and NDT297.*

### NDT155 Neuroelectric Theory and Instrumentation I*^
This course, the first in a two-course sequence, covers charge, AC and DC voltage, current, resistance, Ohm's Law, inductance, capacitance, reactance and impedance. Concepts including bandwidth, spectrum, noise and filtering are examined qualitatively. Amplifiers are introduced at the block-diagram level to investigate parameters such as gain; differential and common-mode signals; common-mode rejection ratio (CMRR); isolation; and manufacturer specifications. Analog-to-digital conversion is introduced. *Prerequisite: A grade of B or better in MATH118 / 5-3*

**NDT205 Neuroelectric Theory and Instrumentation II*^**
This course reviews analog-to-digital conversion, emphasizing sampling rate and amplitude resolution issues. Spontaneous and evoked neuroelectric signals are described, along with analog and digital systems used to record, process and display them. Methods of signal analysis are introduced, and fundamentals of brain topography are presented. Lab exercises address electrode placement, as well as setup and operation of equipment used in subsequent clinical rotations. *Corequisite: BIOS105; prerequisites: NDT155 and certification by math faculty / 5-3*

**NDT221 Functional Neuroanatomy A*^**
This course, linked to NDT222, introduces structural organization of the central nervous system. Studies begin with an overview of the skull and vertebral column, major subdivisions of the brain and spinal cord, and circulation of blood and cerebrospinal fluid. Also addressed are the neuroanatomical substrates underlying initiation, control and integration of voluntary movements; pathways and centers involved in all modalities of sensation; and subsystems involved in consciousness and higher cortical functions. *Corequisite: NDT256, NDT276 or NDT296; prerequisites: BIOS105 and NDT205 / 4-1*

**NDT222 Functional Neuroanatomy B*^**
This course, linked to NDT221, introduces structural organization of the central nervous system. Studies begin with an overview of the skull and vertebral column, major subdivisions of the brain and spinal cord, and circulation of blood and cerebrospinal fluid. Also addressed are the neuroanatomical substrates underlying initiation, control and integration of voluntary movements; pathways and centers involved in all modalities of sensation; and subsystems involved in consciousness and higher cortical functions. *Prerequisite: NDT221 / 4-2*

**NDT241 Neurophysiology A*^**
This course, linked to NDT242, introduces underlying physiological concepts and functioning of the central, peripheral and autonomic nervous systems. Studies begin with a review of relevant properties of matter in solution, followed by study of membrane physiology and sensory receptor mechanisms; functional properties of nerve, muscle and synapse; and integrative activity of the central nervous system, from spinal cord to cortex. *Corequisite: NDT256, NDT276 or NDT296; prerequisites: BIOS105 and NDT205 / 4-1*

**NDT242 Neurophysiology B*^**
This course, linked to NDT241, introduces underlying physiological concepts and functioning of the central, peripheral and autonomic nervous systems. Studies begin with a review of relevant properties of matter in solution, followed by study of membrane physiology and sensory receptor mechanisms; functional properties of nerve, muscle and synapse; and integrative activity of the central nervous system, from spinal cord to cortex. *Prerequisite: NDT241 / 4-2*

*Note: To successfully complete clinical practicum courses, students must meet requirements outlined in* Additional Requirements – Neurodiagnostic Technology Program.

**NDT256 Clinical Practicum IA*^**
This practicum, linked to NDT257, constitutes the first part of the three-part practicum experience. Throughout the experience students learn in a clinical environment, rotating through multiple disciplines: electroencephalography (EEG), polysomnography (PSG – sleep study), evoked potential (EP), intraoperative monitoring (IOM), epilepsy monitoring and nerve conduction studies (NCSs). An additional elective rotation is also required. In this first practicum, practical applications of EEG and PSG are emphasized. Each practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting. *Prerequisite: Successful completion of all requirements for admission to the clinical phase of the program, including grades of B or better in BIOS105, NDT155 and NDT205 / 16-4*

**NDT257 Clinical Practicum IB*^**
This practicum, linked to NDT256, constitutes the first part of the three-part practicum experience. Throughout the experience students learn in a clinical environment, rotating through multiple disciplines: electroencephalography (EEG), polysomnography (PSG – sleep study), evoked potential (EP), intraoperative monitoring (IOM), epilepsy monitoring and nerve conduction studies (NCSs). An additional elective rotation is also required. In this first practicum, practical applications of EEG and PSG are emphasized. Each practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting. *Prerequisite: NDT256 / 16-4*

**NDT266 Correlative Neurology IA*^**
This course, linked to NDT267, introduces diseases of the nervous system. Course material is organized by level of the nervous system involved in the disease process and focuses on clinical manifestations of disease in each etiologic category. Diseases of the brain, brainstem and cerebellum are examined. Didactic material is supplemented by clinical demonstrations and related to students' experience in lab rotations. *Corequisite: NDT256, NDT276 or NDT296; prerequisites: BIOS105 and NDT205 / 2-1*

**NDT267 Correlative Neurology IB*^**
This course, linked to NDT266, introduces diseases of the nervous system. Course material is organized by level of the nervous system involved in the disease process and focuses on clinical manifestations of disease in each etiologic category. Diseases of the brain, brainstem and cerebellum are examined. Didactic material is supplemented by clinical demonstrations and related to students' experience in lab rotations. *Prerequisite: NDT266 / 2-1*

**NDT276 Clinical Practicum IIA*^**
This practicum, linked to NDT277, constitutes the second part of the three-part practicum experience. The course emphasizes evoked potentials and nerve conduction studies. Intraoperative monitoring techniques and epilepsy monitoring units are introduced. Each practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting. *Prerequisite: NDT257 / 16-4*

**NDT277 Clinical Practicum IIB*^**
This practicum, linked to NDT276, constitutes the second part of the three-part practicum experience. The course emphasizes evoked potentials and nerve conduction studies. Intraoperative monitoring techniques and epilepsy monitoring units are introduced. Each practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting. *Prerequisite: NDT276 / 16-4*

**NDT286 Correlative Neurology IIA*^**
This course, linked to NDT287, focuses on disorders of muscle, myoneural junction, peripheral nerves, nerve roots, the spinal cord and the autonomic nervous system. *Corequisite: NDT256, NDT276 or NDT296; prerequisites: BIOS105 and NDT205 / 2-1*

**NDT287 Correlative Neurology IIB*^**
This course, linked to NDT286, focuses on disorders of muscle, myoneural junction, peripheral nerves, nerve roots, the spinal cord and the autonomic nervous system. *Prerequisite: NDT286 / 2-1*

**NDT296 Clinical Practicum IIIA*^**
This practicum, linked to NDT297, constitutes the final phase of the clinical practicum. Students complete all rotations initiated in NDT257 and NDT277, and also select and complete work on an elective subspecialty. Each practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting. *Prerequisite: NDT277 / 16-4*

**NDT297 Clinical Practicum IIIB*^**
This practicum, linked to NDT296, constitutes the final phase of the clinical practicum. Students complete all rotations initiated in NDT257 and NDT277, and also select and complete work on an elective subspecialty. Each practicum course requires a substantial number of hours of professional practice time in an approved external healthcare setting. *Prerequisite: NDT296 / 16-4*

## NETWORKS

**NETW202 Introduction to Networking with Lab^**
This course introduces the underlying technology of local area networks (LANs), wide area networks (WANs) and the Internet. Topics include networking media, the Open Systems Interconnection (OSI) model, transmission control protocol/Internet protocol (TCP/IP), an overview of routing and switching, and small network configuration and troubleshooting. Students prepare and test cabling and become familiar with protocol analyzers. *Prerequisite: COMP129 or GSP215 / 4-3*

**NETW203 Cisco Networking Academy –**
**Introduction to Networking with Lab^**
This course introduces the underlying technology of local area networks (LANs), wide area networks (WANs) and the Internet. Topics include networking media, the Open Systems Interconnection (OSI) model, transmission control protocol/Internet protocol (TCP/IP), an overview of routing and switching, and small network configuration and troubleshooting. Students prepare and test cabling and become familiar with protocol analyzers. This course is based on Cisco Networking Academy content. *Prerequisite: COMP129 / 4-3*

**NETW204 Introduction to Routing with Lab^**
This course introduces router configuration, maintenance and troubleshooting; routing protocols; and use of access control lists (ACLs) as a traffic management tool. Students gain command-line-interface (CLI) knowledge and configure local and wide area networks with routers. In addition, students apply the transmission control protocol/Internet protocol (TCP/IP) suite of commands and ACLs to real networks under troubleshooting and traffic management scenarios. *Prerequisite: NETW202 or NETW203 / 4-3*

**NETW205 Cisco Networking Academy –**
**Introduction to Routing with Lab^**
This course introduces router configuration, maintenance and troubleshooting; routing protocols; and use of access control lists (ACLs) as a traffic management tool. Students gain command-line-interface (CLI) knowledge and configure local and wide area networks with routers. In addition, students apply the transmission control protocol/Internet protocol (TCP/IP) suite of commands and ACLs to real networks under troubleshooting and traffic management scenarios. This course is based on Cisco Networking Academy content. Eligibility to enroll in the course is based on placement results and successful completion of NETW202, or on successful completion of NETW203. *Prerequisite: NETW203 / 4-3*

**NETW206 Introduction to Switching with Lab^**
This course presents advanced Internet protocol (IP) addressing techniques, intermediate routing protocols, switch configuration and maintenance, virtual local area networks (VLANs) and related protocols, and network design strategies. Students expand their skills in router and switch configuration and maintenance by building and troubleshooting various networks. *Prerequisite: NETW204 or NETW205 / 4-3*

**NETW207 Cisco Networking Academy –**
**Introduction to Switching with Lab^**
This course presents advanced Internet protocol (IP) addressing techniques, intermediate routing protocols, switch configuration and maintenance, virtual local area networks (VLANs) and related protocols, and network design strategies. Students expand their skills in router and switch configuration and maintenance by building and troubleshooting various networks. This course is based on Cisco Networking Academy content. *Prerequisite: NETW205 / 4-3*

**NETW208 Introduction to WAN Technologies with Lab^**
This course addresses wide area network (WAN) design using various technologies; WAN protocols configuration and troubleshooting; and network management. In the lab, students expand their skills in router and switch configuration and maintenance by building and troubleshooting various networks, as well as design, configure and troubleshoot various WAN topologies. Use of the following protocols and technologies is expanded or introduced: network address translation and port address translation, dynamic host configuration protocol, point-to-point protocol authentication, integrated services digital network, dial-on-demand routing and frame relay. *Prerequisite: NETW206 or NETW207 / 4-3*

**NETW209 Cisco Networking Academy –**
**Introduction to WAN Technologies with Lab^**
This course addresses wide area network (WAN) design using various technologies; WAN protocols configuration and troubleshooting; and network management. In the lab, students expand their skills in router and switch configuration and maintenance by building and troubleshooting various networks, as well as design, configure and troubleshoot various WAN topologies. Use of the following protocols and technologies is expanded or introduced: network address translation and port address translation, dynamic host configuration protocol, point-to-point protocol authentication, integrated services digital network, dial-on-demand routing and frame relay. This course is based on Cisco Networking Academy content. *Prerequisite: NETW207 / 4-3*

**NETW230 Network Operating Systems – Windows, with Lab^**
This course explores basic operation and management of local and wide area networks using the Microsoft network operating system (NOS). Topics include installation of server and work-station software, physical network configuration, network security, policy, domain controllers, performance monitoring and troubleshooting techniques. NOS features, ease of management, utilities, upgrades, and interoperability with other NOSs and client types are analyzed. *Prerequisites: COMP230, and NETW204 or NETW205 / 5-4*

**NETW240 Network Operating Systems – UNIX, with Lab^**
This course explores basic operation and management of local and wide area networks using UNIX or similar network operating systems (NOSs). Topics include server and workstation software installation, physical network configuration, network security, policy, performance monitoring and troubleshooting techniques. NOS features, ease of management, utilities, upgrades, and interoperability with other NOSs and client types are analyzed. *Prerequisite, Cyber Security Programming track students: NETW204 or NETW205; prerequisites, all students except Cyber Security Programming track students: COMP230, and NETW204 or NETW205 / 5-4*

**NETW250 Voice/VoIP Administration with Lab^**
This course examines technologies and systems that serve voice traffic, including enterprise switches (e.g., private branch exchanges and Centrex), networked telephony solutions, Voice over Internet Protocol (VoIP), call centers, voice processing and wireless systems. Administration of these systems is emphasized, and relevant troubleshooting and security issues are discussed. *Prerequisite: NETW204 or NETW205 / 4-3*

**NETW310 Wired, Optical and Wireless Communications with Lab*^**
This course examines wired, optical and wireless signals and their transmission in the network. Topics include codes and numbering systems, data transmission methods, basic point-to-point networks, error detection and correction, and Internet access technologies. *Prerequisite: NETW204 or NETW205 / 4-3*

**NETW320 Converged Networks with Lab*^**
This course examines foundations for current and emerging networks that deliver voice, data and video/imaging through various technologies. Topics include core switching, broadband and edge access, Internet protocol telephony, adding packet capabilities to circuit-switched networks, 3G solutions, presence-enabled communications, security and troubleshooting. Telecommunications regulation and standards are discussed. *Prerequisite: NETW208 or NETW209 / 4-3*

**NETW360 Wireless Technologies and Services with Lab*^**
This course examines wireless technology and how wireless networks operate. Wireless network components, design, security and troubleshooting are explored, as is wireless network regulation. Trends and related issues in wireless technology and services are discussed. *Prerequisite: NETW310 / 4-3*

**NETW410 Enterprise Network Design with Lab*^**
Students in this course apply knowledge of wired and wireless network technologies and services – as well as network security and cost consideration – to develop network solutions that meet business requirements. Critical thinking, problem-solving, troubleshooting and teamwork are emphasized. *Prerequisite: NETW230 or NETW240 / 5-4*

**NETW411 Information Security and Mobile Devices***
This course addresses information security on mobile devices. Topics include information to be protected; risks involved; types of mobile devices; information at rest and in motion; encryption; attack scenario vulnerabilities; and aspects of defense-in-depth controls. *Prerequisite: SEC280 / 5-4*

**NETW420 Enterprise Network Management with Lab*^**
Students in this course develop skills related to ongoing network management. Topics include issues relating to wireless; traffic analysis; troubleshooting/problem-solving; and improving network performance, reliability and security. Coursework integrates business management considerations with network management to support business goals. *Prerequisites: MATH221 and NETW410 / 5-4*

**NETW430 Information Storage and Management with Lab*^**
This course covers core logical and physical components that make up a storage system infrastructure, as well as application of those components for maintaining business continuity, storage security, and storage infrastructure monitoring and management. *Prerequisite: NETW320 / 4-3*

**NETW471 Advanced Topics in Networking*^**
This course focuses on emerging and advanced topics in the networking field. Students explore advances in technology and their implications in designing, implementing, securing and managing networks. *Prerequisite: NETW420 / 3-3*

**NETW490 Senior Project with Lab***
Through an applications-oriented team project, students demonstrate their problem-solving and project management skills. To complete the project, students integrate aspects of network analysis, design, planning, implementation, trouble-shooting and evaluation. This course must be taken at DeVry. *Prerequisites: MGMT404, NETW420 and permission from the appropriate academic administrator / 5-4*

*Note: The combination of NETW494 and NETW497 may be offered as an alternate to NETW490.*

**NETW494 Senior Project I with Lab*^**
In this course, the first in a two-course sequence, students begin an applications-oriented team project to demonstrate their problem-solving and project-management skills. To complete the project, students integrate aspects of network analysis, design, planning, implementation and evaluation. This course must be taken at DeVry. *Prerequisites: MGMT404, NETW420 and permission from the appropriate academic administrator / 2-2*

**NETW497 Senior Project II with Lab*^**
In this course, a continuation of NETW494, students further demonstrate their problem-solving and project-management skills. To complete the project, students integrate aspects of network analysis, design, planning, implementation and evaluation. This course must be taken at DeVry. *Prerequisites: MGMT404, NETW420 and permission from the appropriate academic administrator / 2-2*

## PHILOSOPHY

**PHIL347 Critical Reasoning**
This writing-intensive course introduces practical and theoretical contexts of logical argument as well as critical reading and reasoning. Students apply information analysis and problem-solving skills to define, convey and defend positions that influence decision-making. Students prepare a range of documents that reflect and/or incorporate principles of sound logic and reasoning. *Prerequisite: ENGL135 / 3-3*

**PHIL447 Logic and Critical Thinking**
This course introduces logic, argumentation and critical thinking. Students learn to use deductive and inductive reasoning to solve problems in both theoretical and practical contexts. Writing and debating skills, as well as precise use of language, are enhanced through use of formal analysis. Students also become aware of possible fallacies in reasoning and learn how to avoid them. Problem-solving exercises, writing assignments and group processes emphasize practical applicability of logic and critical thinking rules. *Prerequisite: ENGL135 / 3-3*

**PHIL449 Philosophy of Science+**
This course explores basic philosophical issues and problems of natural science. Examinations of the function of scientific inquiry and of the nature and limits of scientific knowledge are used to analyze and evaluate the methods of science. Other topics include scientific hypotheses and laws, along with their role in explanations and concept formation. The course also considers theories and their characteristics, including realism and antirealism, logical positivism, underdetermination and the limits of scientific knowledge. *Prerequisite: ENGL135 / 3-3*

## PHYSICS

**PHYS204 Applied Physics with Lab^**
In addition to providing a foundation in mechanisms, this course introduces physics concepts needed to support advanced coursework in electronics. Topics include force and motion, energy and energy conversion, magnetism, heat and light. Use of transducers for performing physical measurements associated with these concepts is also incorporated. Students measure physical parameters and apply concepts through lab assignments. *Prerequisites: ECT125 and MATH103 / 5-4*

**PHYS216 Physics with Lab**
This course examines fundamental principles of mechanics, thermodynamics, optics, and electricity and magnetism, as well as aspects of modern physics. Lab activities complement classroom discussion and include experiments that concisely illustrate main theoretical topics presented. *Prerequisite: MATH114 or MATH190 / 5-4*

**PHYS310 College Physics I with Lab^**
This calculus-based course emphasizes fundamental laws of mechanics – the basis of most electronic control systems. Students use computer software packages to simulate system performance and analyze data acquired through lab exercises. *Prerequisite: MATH260 / 5-4*

**PHYS320 College Physics II with Lab^**
This calculus-based course covers topics such as thermodynamics, heat transfer, electromagnetic fields, wave propagation, optics, sensors and transducers. Students use computer software to simulate system performance and analyze data acquired through lab exercises. *Prerequisites: MATH260 and PHYS310 / 5-4*

## POLITICAL SCIENCE

**POLI330 Political Science^**
This course explores political systems in a comparative way, with emphasis on governmental forms, constitutions, determinants of foreign policy and methods of political change. Studies of recent political history, current world affairs and the structure of political institutions are included. */ 3-3*

**POLI332 Political Science**
This course explores political systems in a comparative way, with emphasis on governmental forms, constitutions, determinants of foreign policy and methods of political change. Studies of recent political history, current world affairs and the structure of political institutions are included. This course fulfills the state requirement for study of the State of Nevada and U.S. constitutions. */ 3-3*

**POLI410 Social Movements**
This course explores social movements through research, evaluation, debate and analysis. Students examine various social movements – such as temperance, populism, civil rights, feminism and environmentalism – to gain familiarity with the movements' tactics, obstacles and successes in changing political culture, as well as to understand complexities involved in changing society. *Prerequisite: POLI330 or POLI332 / 3-3*

**POLI457 International Relations**
This course examines world politics as related to international conflict and security. Behavior and relationships among states are explored through case studies and real-world events. Also studied, from a global political perspective, are environmental concerns, human rights and trade issues. *Prerequisite: POLI330 or POLI332 / 3-3*

## PROJECT MANAGEMENT

**PROJ330 Human Resources and Communication in Projects*^**
This course focuses on directing and coordinating human resources and links among people, ideas and information necessary for project success. A project manager's roles and responsibilities, team building and organizational structure are covered. Communication planning, information distribution, performance reporting and conflict management are included. *Prerequisite: MGMT303 / 4-4*

**PROJ410 Contracts and Procurement*^**
This course examines processes required to acquire goods and services from outside the organization in order to meet project requirements. Planning, solicitation, source selection, and contract administration and closeout are covered. Contract law, contract types, invitation to bid, bid evaluation and contract negotiations are addressed. Current approaches to determining what to procure, documenting requirements and bid evaluation criteria are included. *Prerequisite: MGMT404 / 4-4*

**PROJ420 Project Risk Management*^**
This course addresses identifying, analyzing and responding to project risk in order to maximize results of positive events and minimize consequences of adverse events. Identification, quantification, response planning and control are covered. Risk factors, contract types, assessment techniques, tools to quantify risk, procedures to reduce threats to project objectives and contingency are included. *Prerequisite: MGMT404 / 4-4*

**PROJ430 Advanced Project Management*^**
This course focuses on development of an integrated project plan. Cost, schedule and minimum performance requirements are addressed from project plan development, execution and change control perspectives. Budget development, project assumptions, quality, variance and scope changes, and project team management are included. *Prerequisites: ACCT434 and PROJ420 / 4-4*

## PSYCHOLOGY

### PSYC110 Psychology^
This course provides a foundation for understanding, predicting and directing behavior. Organized within a framework encompassing foundations, general topics and applications, the course provides an understanding of how psychological principles and concepts relate to professional and personal life. Topics include learning, attitude formation, personality, social influence, dynamics of communication, conflict resolution, motivation, leadership, and group roles and processes. / 3-3

### PSYC290 Lifespan Development
In the context of a general introduction to psychology and the social sciences, this course explores human development across the lifespan. Topics include physical, cognitive, psychological, social and moral development of infants, children, adolescents and adults. Coursework also addresses developmental theories, motivation, personality development, culture, and general psychological theories and principles. *Prerequisite: PSYC110, SOCS185 or SOCS190 / 3-3*

### PSYC305 Motivation and Leadership^
This course focuses on human motivation and leadership skills required to effectively manage groups and individuals. Topics include basic motivation principles, leadership styles, workplace stress and conflict, and the dynamics of group development. Students who receive credit for this course may not also receive credit for PSYC307. *Prerequisite: PSYC110, SOCS185 or SOCS190 / 3-3*

### PSYC307 Motivation and Leadership
This course focuses on human motivation and leadership skills required to effectively manage groups and individuals. Topics include basic motivation principles, leadership styles, workplace stress and conflict, and the dynamics of group interaction. Developing and carrying out a plan for academic and career success is emphasized. Students who receive credit for this course may not also receive credit for PSYC305. *Prerequisite: Successful completion of 60 semester-credit hours / 3-3*

### PSYC315 Social Psychology^
Students in this course explore ways in which individuals think about, influence, are influenced by and otherwise relate to people. Individual behavior in the context of social groups and forces is emphasized. Coursework provides a basis for scientifically addressing key issues of this field. *Prerequisite: PSYC110, SOCS185 or SOCS190 / 3-3*

## RENEWABLE ENERGY ENGINEERING TECHNOLOGY

### REET300 Introduction to Alternative Energy Technologies with Lab
This course addresses renewable alternative energy technologies including photovoltaics, solar thermal systems, wind power, fuel cells, hydroelectricity, the smart grid, alternative fuels, geothermal power, waste heat and biofuels. Socioeconomic, environmental, political and regulatory issues are considered. Students explore key aspects of alternative power sources and sustainable energy solutions that meet today's power demands. *Corequisite: ECET390; prerequisites: ECET301 and SUST310 / 4-3*

### REET420 Power Electronics and Alternative Energy Applications with Lab
This course covers power switching circuits such as rectifiers, AC-DC and DC-DC converters, inverters and motor drives. Power semiconductor devices, thermal management, efficiency and power electronics applications are emphasized. Lab projects involve simulation and construction of power electronic circuits needed to convert power derived from both conventional systems and alternative energy sources such as solar and wind. *Prerequisites: ECET345 and ECET350 / 5-4*

### REET425 Electric Machines and Power Systems with Lab
This course presents electric machines and power systems, with emphasis on renewable energy applications. Topics include three-phase circuits, power factor correction, transformers, synchronous machines, DC motors, induction motors, power system transmission and distribution, and power flow studies. In the lab, students simulate and construct machines needed for power transmission. *Prerequisites: ECET345 and ECET350 / 5-4*

## RELIGION

### RELI448 Comparative Religions^
Through study of the world's major and minor religions, indigenous religions and cults, this course helps students understand the varieties and commonalities of human religious experience, with emphasis on both individual and group phenomena. Students compare the core elements of religion through analysis of religious belief in practice, and as they are depicted in philosophy, theology and the social sciences. Students also learn to formulate their own views on the role of religion in human affairs. *Prerequisite: ENGL135 / 3-3*

## SYSTEMS ANALYSIS AND INTEGRATION

### SAI430 System Integration with Lab
This course integrates previous coursework in information systems analysis and design, database management, transaction processing and application development. Through a business case involving several functional areas, students examine relationships among information systems supporting each area, and explore organizational and technical issues that arise when business needs require separate systems to work together. *Prerequisite: CIS355A or CIS355B / 5-4*

### SAI440 Advanced Topics in Enterprise Analysis*
Students in this course explore enterprise analysis tools and methodologies; capacity planning as related to information systems; enterprise architecture; and risk analysis and management. *Prerequisite: CIS339 / 4-4*

### SAI460 Organizational Process Analysis*
This course addresses analytical techniques used to model process flow. Process rules and process maturity are explored in the context of characterizing workflow effectiveness and identifying opportunities for process improvement. Also covered are systematic approaches for comparing existing processes to process change solutions, documenting requirements for resource proposals and change management competencies critical for successful implementation. *Prerequisite: CIS321 / 4-4*

## SMALL BUSINESS MANAGEMENT AND ENTREPRENEURSHIP

**SBE310 Small Business Management and Entrepreneurship*^**
This course introduces students to business functions, problem areas, decision-making techniques and management fundamentals required for effectively managing a small business. *Prerequisite: BUSN115 / 4-4*

**SBE330 Creativity, Innovation and New Product Development*^**
This course concentrates on the processes of creativity and innovation as tools for marketers and small business managers. Students identify opportunities for using these processes and apply them to implementing and expanding product lines in corporate and entrepreneurial ventures. A structure for introducing new products is presented. *Prerequisite: BUSN319 / 4-4*

**SBE420 Operational Issues in Small Business Management***
This course covers issues that are unique to small business management, including improving the success rate for new firms; financing small businesses; determining the effect of regulations on small firms; and obtaining information to improve performance. *Prerequisite: BUSN319 / 4-4*

**SBE430 E-Commerce for Small Business***
This course explores the potential of e-commerce and its impact on small business practices. Topics include opportunities, issues, alternatives and techniques to support the development of an Internet marketing plan and related website. *Prerequisite: BUSN319 / 4-4*

**SBE440 Business Plan Writing for Small Businesses and Entrepreneurs***
This course focuses on creating a comprehensive business plan for a small business. Coursework addresses research sources; plan presentation; follow-up; and business plan components, including executive summary, company description, target market, competition, marketing and sales, operations, management structure, future development and financials. *Prerequisite: BUSN319 / 4-4*

## SCIENCES

**SCI200 Environmental Science with Lab^**
This interdisciplinary science course integrates natural and social science concepts, and explores the interrelatedness of living things. The course focuses on possible solutions to environmental problems. Topics include sustainability, ecosystems, biodiversity, population dynamics, natural resources, waste management, energy efficiency and pollution control, as well as ethics and politics. Lab exercises support topics presented in the classroom. *Prerequisite: MATH114 / 5-3*

**SCI204 Environmental Science with Lab**
This interdisciplinary science course integrates natural and social science concepts to explore the interrelatedness of living things. Coursework focuses on environmental issues, problems and possible solutions. Topics include sustainability, ecosystems, biodiversity, population dynamics, natural resources, waste management, energy efficiency and pollution control, as well as associated ethics and politics. Through lab exercises, students apply general principles using a variety of methods and explore a broad range of topics. *Prerequisite: MATH114 / 5-4*

**SCI214 Integrated Science with Lab**
This interdisciplinary science course draws on basic principles and insights from physics, chemistry, biology, geology, astronomy and information technology, which are linked within four fundamental principles of science: Newton's laws of force and motion, laws of thermodynamics, laws of electromagnetic force and the atomic structure of all matter. The course provides an understanding of science while clarifying the role of technology and strengthening decision-making. Lab exercises help students further explore theories through observation and application using a variety of methods. *Prerequisite: MATH114 / 5-4*

**SCI224 Astronomy with Lab^**
This course introduces the science of astronomy, including exploration of the night sky, astronomical instrumentation and techniques, and historical background. Starting with our own earth, moon, sun and Milky Way, the course explores solar systems as well as the properties, classes and life cycles of stars and galaxies. The universe as a whole is then considered through major competing theories on its origin, evolution and ultimate fate. The lab component blends practical outdoor observation, computer simulation and research studies. *Prerequisite: MATH114 / 5-4*

**SCI228 Nutrition, Health and Wellness with Lab**
This course provides an overview of basic nutrients the body requires for health and life, and dispels common nutrition myths. The role of nutrition in various biological phases of the human life cycle, as well as psychological and sociological implications of food, are discussed. Students also learn how the scientific method of inquiry is used in the nutritional science and health fields. In the lab, students collect observational data, employ computer simulations, and prepare and sample various foods. */ 5-4*

**SCI230 Foundations of Earth Sciences with Lab**
This course introduces Earth sciences and emphasizes interrelationships among Earth's systems as well as human impacts on those systems. Coursework examines the scientific method and fundamentals of Earth-related disciplines, including geology, hydrology, oceanography and meteorology. Students consider the role of science in society and demonstrate informed decision-making by applying scientific concepts to issues confronting society. *Prerequisite: MATH114 / 5-4*

## INFORMATION SYSTEMS SECURITY

**SEC280 Principles of Information Systems Security*^**
This course provides a broad overview of information systems security in organizations. Topics include security concepts and mechanisms; mandatory and discretionary controls; basic cryptography and its applications; intrusion detection and prevention; information systems assurance; and anonymity and privacy. Various types of controls used in information systems, as well as security issues surrounding the computer and computer-generated data, are also addressed. *Prerequisite: CEIS100, CIS246 or COMP129 / 3-3*

**SEC311 Ethical Hacking***
This course provides knowledge and skills related to activities behind hacking attacks and countermeasures. Coursework helps students build defense mechanisms to protect applications, systems and networks from hackers. Security loopholes, as well as common attack tools used by black hat hackers, are examined. *Prerequisite: SEC280 / 4-3*

**SEC321 Network Security Testing with Lab\***
This course examines network security testing, including testing countermeasures against malware threats; denial of service (DOS) and distributed denial of service (DDOS) attacks; email; Web; and Wireless using a layered approach requiring design, implementation, and testing of attack countermeasures. *Prerequisites: NETW206 or NETW207; NETW240; and SEC280 / 4-3*

**SEC340 Business Continuity\*^**
This course focuses on preparing for, reacting to and recovering from events that threaten the security of information and information resources, or that threaten to disrupt critical business functions. Students examine various levels of threats to an organization's information assets and critical business functions, as well as develop policies, procedures and plans to address them. Technology specific to thwarting disruption and to supporting recovery is also covered. *Prerequisites: CIS336 and SEC280 / 4-4*

**SEC360 Data Privacy and Security\*^**
This course focuses on legal, ethical and security issues involving data and information assets organizations must address to ensure operational continuity as well as compliance with standards, policies and laws. Students examine various levels of threats to an organization's data and develop standards, policies, procedures and plans to combat them. Security technology specific to safeguarding data and information assets is also covered. *Prerequisites: CIS336 and SEC280 / 4-4*

**SEC370 Web Security\*^**
This course examines issues involved in protecting web-based applications from external threats while safeguarding customer privacy and accessibility. Students examine external threats to an organization's systems and develop strategies that support systems and business goals. *Prerequisites: CIS407A, CIS407B or GSP125; and SEC280 / 4-4*

**SEC440 Information Systems Security Planning and Audit\*^**
This course provides an in-depth look at risk factor analysis that must be performed in order to design a flexible and comprehensive security plan. Topics include assessing threats, developing countermeasures, protecting information and security designs processes. Auditing practices used to verify compliance with policies and procedures, as well as for building a case for presentation in private and public settings, are also covered. *Prerequisites: CIS355A, CIS355B or GSP125; and SEC280 / 4-4*

**SEC450 Advanced Network Security with Lab\*^**
Students in this course develop more advanced skills in identifying network security vulnerabilities, including wireless vulnerabilities; conducting risk assessments; preventing, detecting and responding to intrusions; and providing for business continuity and disaster recovery. Topics include firewall architecture, authentication, intrusion-prevention strategies, web security, cryptography and security gates. *Prerequisite: NETW420 or SEC321 / 4-3*

**SEC453 Cisco Networking Academy –**
**Advanced Network Security with Lab\*^**
Students in this course develop more advanced skills in identifying network security vulnerabilities, including wireless vulnerabilities; conducting risk assessments; preventing, detecting and responding to intrusions; and providing for business continuity and disaster recovery. Topics include firewall architecture, authentication, intrusion-prevention strategies, web security, cryptography and security gates. This course is based on Cisco Networking Academy content. *Prerequisite: NETW420 / 4-3*

## SECURITY MANAGEMENT

**SEC310 Principles and Theory of Security Management\***
This course surveys the scope of security management, introducing principles and frameworks for recognizing security issues and solutions. Aspects of protecting people, information and physical assets are examined, including loss prevention. Legal foundations, historical roots, operations and tools of security management are introduced, as is the role of security in contemporary business, government and public settings. *Prerequisite: BUSN115 / 4-4*

**SEC320 Risk Analysis, Loss Prevention and Emergency Planning\***
This course examines the nature of security threats as well as analytical approaches to assessing risk of intrusion and loss of assets. Tools such as security surveys and audits are introduced and practiced in application activities. Using case studies, coursework addresses planning for emergency interventions, including managing detection, delay and response measures, and requirements for operations and staffing security teams. *Prerequisite: SEC310 / 4-4*

**SEC330 Security Administration\***
This course focuses on daily actions taken to manage individuals and organizations engaged in security, as well as communication and interaction with people and systems being secured. Topics include common administrative procedures and practices such as complying with regulations, following identification and verification protocols, securing information systems, responding to workplace violence, addressing emergency threats and related safety functions, educating clients, and managing staffing and guard operations. Students use case examples, simulations and field observations to develop reports for planning, evaluation and forensics. *Prerequisite: SEC310 / 4-4*

**SEC410 Physical Security and Access Control\***
This course introduces a systematic model of physical security, focusing on detection, delay, response, threats and targets of intruders. Through case studies, students explore threat assessments, characterize target vulnerabilities and access control approaches. Covered are aspects of facility and environmental architecture, physical security methods, electronic sensor devices, closed-circuit television, locks, biometrics, guard forces and the government public safety infrastructure. Students demonstrate integration of security components for specific threats. *Prerequisite: SEC310 / 4-4*

**SEC415 Introduction to Information Security\***
This course examines a broad range of issues in computer and information security that security management professionals must address as they communicate with information technologists and prepare general information security plans. Computer and computer data protection, intrusion and control are introduced. In addition, ethical, legal and regulatory aspects of information management are discussed in the context of accessing and distributing data in a secured fashion. Computer forensics, vulnerability of networked and Internet-accessible computers, and fraudulent activities using computers are covered. *Prerequisites: BIS155 and SEC310 / 4-4*

**SEC420 Evaluation of Security Programs\***
This course examines approaches to determining the effectiveness of security management programs. Programmatic protection objectives are evaluated against industry standards, practices and methods in the context of security requirements, and quantitative and qualitative analysis techniques are applied to reveal capabilities and vulnerabilities. The critical role of security program evaluation in general management is examined. *Prerequisite: SEC310 / 4-4*

## SOCIAL SCIENCES

### SOCS185 Culture and Society^
This course explores the role of culture in social organizations. Social institutions, and the issues of race and gender within social structures, are analyzed in the context of multicultural societies and increasing global interaction. Basic sociological principles and research findings are used to support analysis of cultural and social issues. */ 3-3*

### SOCS190 Cultural Anthropology^+
This course provides a comparative study of human cultures throughout the world. Students learn to think critically about human behavior as they develop an understanding of the role culture plays at the interface between the natural environment and human needs. By examining diverse behaviors, customs and traditions from different countries, students learn to recognize and value both differences and similarities among cultures, and develop tolerance and respect for other societies. */ 3-3*

### SOCS315 Marriage and Family^
Students conduct an interdisciplinary examination of issues surrounding contemporary marriage and families. Through research, readings, case studies, group work and role playing, students analyze historical and demographic trends in families; psychological and sociological theories of intimacy; the cultural significance of gender, class and ethnicity in families; physical and psychological issues surrounding sexual behavior; and use of power, conflict and communication in family systems. *Prerequisite: PSYC110, SOCS185 or SOCS190 / 3-3*

### SOCS325 Environmental Sociology
Students in this course explore environmental issues as perceived by society. Coursework addresses cultural norms, ideologies, beliefs, and economic and gender-related factors that affect finding and providing sustainable solutions to environmental problems. Through discussions of research, problem-solving projects and presentations, students learn to identify causes of environmental problems and apply practical solutions to particular cases. *Prerequisite: ENGL135 / 3-3*

### SOCS335 Workplace Culture and Communication
Students build on prior work in communication and the social sciences to examine various genres of workplace culture through which workers communicate, such as writing, dress, humor, workspace decoration, rituals, technology-based expressions and others. Analyzing workplaces as complex systems with subgroups, students identify challenges of cross-cultural communication as well as strategies for meeting those challenges, and explore how workers adapt to cultural change in the workplace. *Prerequisite: PSYC110, SOCS185 or SOCS190 / 3-3*

### SOCS350 Cultural Diversity in the Professions
Students explore cross-cultural issues and diversity to help create a positive foundation for understanding and working effectively with others. Cultural issues – including values, beliefs and practices that affect individuals, groups and communities – are discussed. Case studies and other applications are examined, particularly as they relate to the workplace and to professional practice. Experiential learning designed to increase understanding and appreciation of differing cultures is included. *Prerequisite: PSYC110, PSYC290, SOCS185 or SOCS190 / 3-3*

## SPEECH

### SPCH275 Public Speaking^
This course teaches basic elements of effective public speaking. Topics include audience analysis, organization, language, delivery and nonverbal communication. Practical application is provided through a series of individual and group presentations in a variety of rhetorical modes. *Prerequisite: ENGL108 or ENGL112 / 4-3*

### SPCH277 Interpersonal Communication
This course explores ways in which people interact verbally and nonverbally, and teaches basic principles of interpersonal communication including perception, self-concept, persuasive communication, nonverbal communication, semantics, roles and norms, and communication barriers. Activities include participation in groups, pairs and interactive communication situations. *Prerequisite: ENGL112 / 4-3*

### SPCH279 Debate and Critical Thinking
This introductory debate course helps students develop clear, logical and ethical arguments using critical thinking strategies. Classroom activities include cross-examination debate and argumentation speeches. *Prerequisite: ENGL112 / 4-3*

## SUSTAINABILITY MANAGEMENT

### SUST310 Renewable Energy: Science, Technology and Management
This course introduces science and technology behind renewable energy technology while considering business decisions required to invest in – and manage – systems using this technology. Among others, solar technologies, fuels synthesized from biomass, hydrogen and wind are explored. */ 4-4*

### SUST320 Sustainability Management and Administration
This course explores managing and administering an organization's commitment to long-term sustainability. Students consider trade-offs among individual decisions of economic utility, production value associated with costs and return on investment, and impacts on the environment and society. *Prerequisite: ACCT212 / 4-4*

### SUST410 Sustainability Operations
This course examines aspects of operations functions for their role in managing a sustainable organization. Planning, supportive information systems, compliance management, the sustainable supply chain, sustainability applied to human resources, and other sustainable system elements managed and controlled by operations are considered. *Prerequisite: SUST320 / 4-4*

## TECHNICAL COMMUNICATION

### TC160 Perspectives on Technology\*
This course presents an overview of characteristics that help define, analyze and communicate about technology. Students explore the impact of technology changes on society, culture and identity, and develop rhetorical frameworks for communicating in a technology-driven environment. *Prerequisite: ENGL135 / 4-4*

### TC220 Rhetorical Strategies for Technical Communication\*
Students in this course use audience and context analysis, determination of purpose and other rhetorical strategies to create technical documents for persuasive and informative purposes. Major emphasis is placed on logic, argument, evidence and various appeals in producing documents containing sound reasoning and effective language. Studies include logical fallacies; social, ethical, political and practical influences; and ways of incorporating quantitative and qualitative information into documents. *Prerequisite: ENGL135 / 4-4*

### TC310 Document Design*

This course presents fundamentals of information design using software products tailored to the design process. Students learn each software product and then apply their skills to design and present projects. Key topics are technical design theory including contrast, repetition, alignment and proximity; typology and linear components; and page layout. Rhetorical elements of information design focusing on purpose, audience and context are incorporated into each project. *Prerequisite: ENGL227 / 4-4*

### TC320 Advanced Technical Writing and Editing*

This course prepares students to write and edit technical and business documents for both the manufacturing and software development sectors. Students are introduced to the range of communication tasks performed by professional technical writers and editors, including engineering and software documentation, training and marketing materials, and corporate communication documents. Topics include document structure and formats, information gathering techniques, usability testing principles and practical guidelines for editing technical documents. *Prerequisite: ENGL227 / 4-4*

### TC360 Visual Design*

This course presents elements of visual design in technical communication using appropriate software. Students learn various software products, and then apply their skills to designing and presenting visual design projects. Coursework addresses visual design theory, minimalism, visual rhetoric and visual ethics. In addition, students incorporate visual design theory into document designs. *Prerequisite: TC310 / 4-4*

### TC420 Marketing and Corporate Communications*

Students in this course apply rhetorical strategies and composition principles to create marketing literature, investor communications, media releases and executive presentations. The course includes current communication issues in business, such as globalization, cross-cultural influences, technological advances, ethics and regulatory requirements. Students develop and present oral and written reports in a variety of media and channels. Client practitioner involvement is used as available. *Prerequisites: BUSN319 and TC220 / 4-4*

### TC430 Proposal and Grant Writing*

In this course students explore procurement processes in industry and government, as well as grant funding in the nonprofit and government sectors, with particular emphasis on the technical writer's role in these processes. Students also learn how businesses and government agencies purchase products and services, including types of contracts used; how companies and other organizations prepare bids and proposals; and how proposals and grant requests are reviewed. Issues of ethics and fairness are addressed. Proposals and grant-request documents for both the private and public sectors are developed. *Prerequisite: TC320 / 4-4*

### TC440 Web Design*

This course presents the elements of information design in technical communication using software tailored for web design. Students learn to use a variety of software products and apply their skills to designing and presenting a web page. Students focus on user-centered design, appropriate use of design elements, and on applying information design theories to their work. *Prerequisite: TC310 / 4-4*

### TC450 Scientific and Medical Writing*

This course addresses communication and information design in healthcare, science, public policy, patient education, scientific journalism and related fields. Students prepare a range of documents presenting their analysis of data and other information on medical and scientific issues for a general audience. In addition, student groups work on team projects for actual or simulated clients. *Prerequisite: TC320 / 4-4*

## WEB GAME PROGRAMMING

### WBG310 Interactive Web Page Scripting with Lab*^

Students in this course learn to program dynamic, interactive web pages and web-based games. Topics include basic programming fundamentals and object handling techniques. Fundamentals of game design are also introduced. Students use a scripting language to build basic interactive web page components and examples of web-based games. *Prerequisite: MDD310 / 5-4*

### WBG340 Programming Multimedia for the Web with Lab*^

Students in this course use multimedia authoring tools and techniques to create web-based games and dynamic web pages. Integrating and controlling multimedia assets such as movie clips, sound effects, images and animations are addressed. *Prerequisite: CIS363A, CIS363B or MDD310 / 5-4*

### WBG370 Game Development with Lab*^

This course introduces basics of game design and development. Using an object-oriented game engine with libraries, students apply game design principles to develop example games. Technical considerations and industry best practices are also covered. *Prerequisite: CIS363A, CIS363B or WBG340 / 5-4*

### WBG410 Dynamic Website Development and Database Integration with Lab*^

This course introduces advanced techniques to design and develop dynamic websites through use of cascading style sheets (CSS), integration of databases, server-side scripting and large site management. *Prerequisite: WBG340 / 5-4*

### WBG450 Multiplayer Online Game Development with Lab*^

This course surveys design, development and play characteristics of multiplayer online games. Students install, configure and maintain game server software; deploy a simple multimedia game using the server; and manage and audit the server. ActionScript is used to configure server functionality. *Prerequisites: WBG340 and WBG370 / 5-4*

## WEB DESIGN AND DEVELOPMENT

### WDD420 Web Accessibility with Lab*^

Building on web design and development skills, students learn to implement accessible websites that meet industry standards and legal requirements for accessibility. Topics include assistive technologies, creating accessible content, and industry standards and regulatory acts. *Prerequisite: WBG410 / 5-4*

Note: Courses marked with an asterisk (*) require successful completion of required math and English transitional studies courses. Only those courses marked with a caret (^) are licensed in New Jersey; students whose enrolled location is in New Jersey may enroll in these courses in the onsite, online and blended modalities. Courses marked with a plus sign (+) are available as honors courses (restrictions apply). Numbers at the end of each course description refer to contact hours per week, based on the semester-length delivery format, and credit hours awarded. At DeVry University sites in Pennsylvania, all courses in the blended and onsite modalities are delivered at least 50 percent onsite.

## WEB DEVELOPMENT AND ADMINISTRATION

**WEB320 Principles of E-Commerce*^**
This course provides comprehensive coverage of a broad spectrum of e-commerce principles, models and practices. Topics include Internet marketing and retailing; payment and order fulfillment; and various e-commerce models such as business-to-business (B2B) and consumer-to-consumer (C2C). *Prerequisites: BUSN115; and CIS407A or CIS407B / 4-4*

**WEB375 Web Architecture with Lab*^**
Building on networking concepts and principles explored in CIS246, this course introduces students to web architecture and connectivity. Topics include Internet protocols such as transmission control protocol/Internet protocol (TCP/IP); domain name server (DNS); simple mail transfer protocol (smtp), hypertext transfer protocol (http) and file transfer protocol (ftp); and design of an Internet or corporate intranet infrastructure to meet specific needs. *Prerequisite: CIS246 / 5-4*

**WEB460 Advanced Web Application Development with Lab*^**
This course builds on basics of design, coding and scripting, as well as database connectivity for web-based applications. Coursework introduces concepts of data interchange, message exchange and web application components. A programming language such as Java, C++.Net or Visual Basic.Net is used to implement business-related web-based applications. *Prerequisite: CIS407A or CIS407B / 5-4*

## WEB GRAPHIC DESIGN

**WGD201 Visual Design Fundamentals^**
In this course students examine the foundation of visual design. Topics include the design process; elements of design, such as line, color, form, function and space; and combining elements for enhanced visual design. Students explore these topics through various projects and by applying concepts using appropriate software. *Prerequisite: COMP100 / 3-3*

**WGD205 Advanced Design and Rapid Visualization^**
Students in this course develop skills in creating graphic media. Students explore design and use of type, and the process of using rapid visualization for design concept and idea formulation, as well as create media that enhance user understanding. *Prerequisite: WGD201 / 4-4*

**WGD210 Digital Imaging Fundamentals^**
Students in this course learn concepts of digital imaging, including editing, optimizing and preparing images for web-based delivery. Topics such as color, special effects and compression formats are examined. *Prerequisite: WGD201 / 4-4*

**WGD229 Information Design^**
This course addresses principles of analyzing, explaining and communicating instructions, as well as ideas and information used in integrated text and graphics. Using a collaborative approach, students use real-world examples to explore user-centered design. *Prerequisite: WGD205 / 4-4*

**WGD232 Web Design^**
This course introduces fundamentals of web design principles and web content management. Topics include the user interface, web page conceptualization, page structure, extensible hypertext markup language (XHTML), cascading style sheets (CSS), WYSIWYG editors, scripting and web accessibility standards. *Prerequisite: WGD229 / 4-4*

**WGD235 Web Animation^**
This course focuses on design and production of animation within the constraints of web applications. Topics include file-size optimization, timing, formatting requirements and scripting. Automated animation techniques as well as user-mediated animation are addressed. *Prerequisite: WGD232 / 4-4*

**WGD242 Advanced Web Design^**
In this course, students work in teams to develop a web design for a fictitious company. Students research the company's industry, evaluate competitors' web designs and explore emerging web development tools that enhance production capabilities. *Prerequisites: WGD232 and WGD235 / 4-4*

**WGD251 Responsive Web Design^**
This course focuses on advanced web design techniques using hypertext markup language (HTML), cascading style sheets (CSS) and other scripting methods. Topics include current trends in web design and development, and planning and producing digital projects for various types of devices. *Prerequisite: WGD242 / 3-3*

**WGD260 Media Portfolio^**
This capstone course culminates in a professional portfolio that showcases students' web graphic products, including component examples and web designs. *Prerequisite: WGD251 / 3-3*

# General **Student Information**

For over 80 years, DeVry has maintained its leadership role in North America's post-secondary education arena. Today, more than 42,000 students take advantage of our programs and services and trust DeVry to deliver on its promise of education excellence. The following pages provide important information regarding students' education experience.

In this section learn more about:

Not all students fit into the 'brick and mortar' university. **We're proud to bring higher education to students attending on campus, online or through a combination of both.**

# General **Information**

Regarding courses and program content shown, the sequence in which courses are taken may vary based on location scheduling needs. Some courses may not be offered every semester or at every location. Credit hours listed are semester hours as defined by the National Center for Education Statistics. DeVry operates on a semester calendar; each semester is 16 weeks in length and comprises two eight-week sessions (see *Student-Centric Period*). Some courses may be offered through alternate scheduling options that deliver the academic equivalent of a semester's work. Scheduling options are shown in the Academic Calendar. In general, each 50-minute class period translates to one contact hour, and a course's total weekly contact hours convert to credit hours on a one-to-one basis in lecture classes and on a two-to-one basis in labs. Additional contact hours may be required for special classroom activities. When courses are offered in blended format, some classroom hours are replaced with online and independent study components that require students to commit to substantial out-of-class work. Additionally, some courses may be offered via videoconference, whereby instruction is provided from a single DeVry site and, through technology, is delivered to other locations in the DeVry system. DeVry reserves the right to alter the number of contact hours listed for reasons including, but not limited to, occurrences beyond DeVry's control, holidays, special institution activity days and registration days. Services and administrative office hours vary by location and may be limited evenings and weekends.

In some cases, students will be required to take a substantial amount of coursework online or at another location in close proximity to complete their programs. Online coursework includes an independent study component that requires students to commit to substantial work apart from classroom or online activities. Additionally, online course availability may be subject to enrollment minimums and maximums. Courses delivered onsite and online are designed to achieve the same student outcomes and are academically equivalent. Onsite course schedules are available from the chief location administrator.

Course descriptions shown are typical; however, specific content and sequencing may vary.

## Student-Centric Period

The student-centric period (SCP) is defined as an academic semester consisting of any two consecutive sessions that begins when a student matriculates and that ends when time requirements for a semester have been fulfilled.

Two overlapping calendar cycles designate months corresponding to DeVry's summer, fall and spring semesters. At the time a student matriculates, he/she is assigned an SCP designator code of Cycle 1 or Cycle 2. The chart below outlines how months of the year correspond to a student's spring, summer and fall semesters, based on the assigned SCP cycle.

| Student-Centric-Period Cycles | | |
|---|---|---|
| **Semester** | **Cycle 1 Sessions** | **Cycle 2 Sessions** |
| Spring | January, March | March, May |
| Summer | May, July | July, September |
| Fall | September, November | November, January |

Certain processes are conducted on a session basis; others are conducted on a semester basis.

## Hours of Operation

In general, administrative office hours at DeVry locations are Monday through Thursday 8 am to 8 pm, Friday 8 am to 5 pm and Saturday 9 am to 1 pm, or Monday through Thursday 9 am to 8 pm, Friday 9 am to 4:30 pm and Saturday 9 am to 1 pm. Hours vary by location. More specific information on administrative hours is available from each location.

## Student Advising

Students are encouraged to consult a student services advisor about matters related to career plans, professional services and leisure activities.

Prior to registration, applicants can seek advice through the Admissions Office, the new student coordinator or the appropriate academic administrator. Students are encouraged to consult first with faculty if they are having problems with coursework and then, if necessary, with the appropriate academic administrator. Tutoring assistance is available for students who request it.

## Academic Instruction and Faculty Office Hours

Each session, instruction ends at 11:59 pm MT on Saturday of week eight. No instruction occurs on holidays or during breaks. Online instruction, professor feedback and student-student interaction in the virtual classroom are continuous processes during each session. Faculty office hours are scheduled at the discretion of each faculty member. Faculty telephone numbers and email addresses are included on course syllabi, which indicate when and how students can contact professors. More specific information is available from each location.

## Program Information and Requirements

Program descriptions provide information regarding each curriculum. Program availability varies by location, as do specific program details such as areas of specialization, program options and course requirements. Each location determines its specific course requirements, sequences and availability. Transitional studies coursework may increase program length (see *Transitional Studies Courses*).

In *Colleges & Programs of Study*, the minimum semester-credit-hour requirement for graduation is noted, along with the course area distribution of required courses. Many locations offer alternate courses that also meet these graduation requirements, and a selection of courses may be available to fulfill requirements listed as course area options. Course descriptions list all courses that may fulfill graduation requirements, and each location advises students of available options.

Courses with the CARD prefix, all senior project courses and LAS432 must be taken at DeVry. In addition, students must obtain permission from the appropriate academic administrator prior to enrolling in any senior project course, in LAS432 and/or in certain courses with the CARD prefix.

Based on location-specific and individual selections, total credit hours required in each course area may exceed those listed in the program descriptions.

## Primary Program of Enrollment

A student's first program of study is considered the primary program unless the student requests a program change (see *Program Transfers*).

## Technology Specifications

Because technology changes rapidly in certain fields, students should note that PCs used to complete certain coursework may need to be upgraded during the course of their program. Students are responsible for checking hardware/software requirements before registering for courses.

Computer requirements for students completing courses online are specified at www.devry.edu/online-education/system-requirements.html.

## Awards Granted

Students are eligible to receive the award granted in their chosen program after successfully completing all course and other requirements for graduation.

Awards are granted by the location at which the student completed the program requirements, unless an exception regarding the location granting the award is made. Students are subject to any special conditions associated with DeVry's state approval for that location. Awards granted may vary by state (see *Colleges & Programs of Study*).

## Curriculum Changes

Curriculum changes may affect current and returning students. If a change occurs, an alternate plan of study may be established for students to complete in lieu of the original requirements. DeVry reserves the right to change graduation requirements and to revise, add or delete courses.

DeVry also reserves the right to suspend or cancel instruction and to cancel a starting class or section if enrollment is insufficient. In the event of cancellation, students are notified and may transfer within the DeVry system with credit for all coursework completed; however, program availability varies by location.

Because curriculum changes may occur, students who for any reason withdraw from, are dismissed from, or fail courses or programs may require additional coursework and incur additional tuition obligations when they resume their studies.

## Curriculum Review and Outcomes Assessment

All DeVry curricula are guided by an ongoing curriculum review and outcomes assessment process using input from students, faculty, alumni and employers. Results of such evaluations are used to enhance the curricula, student learning, and academic and administrative processes.

## Applied Learning Labs

DeVry courses focusing on technical topics include lab activities that provide a realistic environment for further development of technical skills through applied learning activities. In onsite as well as in blended courses, activities are delivered either in a specialized lab facility in which students use specified equipment and software to accomplish applied lab activities, or in a lecture-lab classroom, where students use PCs and software to effectively integrate learning and application. In online courses, applied lab activities are integrated into the course design, and students participate in them by means of software environments or custom-configured equipment. Applied lab activities may also be provided via these remote capabilities to onsite students, particularly at smaller locations.

## Lab Facilities

Specialized labs, available at certain DeVry locations, are accessible at scheduled times during instructional hours and may be available after classes or in open lab sessions. Students may use labs during unscheduled hours, but they must obtain permission from an appropriate staff member before doing so.

Electronics lab facilities include work spaces for basic electronics experiments. Each work space has an oscilloscope, signal generator, multimeter and power supply. Advanced labs are equipped to support coursework in digital circuits, digital computers, microprocessors, communication systems, industrial electronics and control systems. A physics lab offers additional equipment.

Computer lab facilities include networked PC-compatible computers. Local area networks (LANs) provide access to a wide range of applications software and services such as database, web and other program development environments.

Telecommunications and network lab facilities include a telecommunications environment, allowing demonstration and testing of analog, digital and fiber optic communications. In addition, a LAN provides an environment for configuration, analysis and troubleshooting, and internetworking facilities demonstrate elements of a wide area network (WAN) environment.

## Library

Serving both onsite and online students, DeVry's network of campus libraries across the United States offers a full array of print and electronic resources and services.

Campus libraries provide access to print books, journals and other materials in support of student learning, as well as access to a full array of electronic resources. Books may be borrowed and the collection searched using the University's online catalog.

In addition, each campus library offers:

- A quiet environment for independent and group study.
- Access to the Internet, computers, printers and copiers.
- The services of professional librarians, who provide instruction in information literacy; can assist students in conducting library research onsite, or via telephone or email; and who are available via live chat seven days a week.

Electronic resources supporting DeVry's academic programs are available 24/7 from the library website, library.devry.edu, which also offers tutorials on use of these resources. Resources include periodical and research databases, as well as e-books, providing access to a vast collection of full-text journal articles and information from academic and trade publications such as *Harvard Business Review; The Wall St. Journal; Journal of Accountancy; Journal of Computer Science; Electronics World; Journal of Educational Technology & Society; The International Journal of the Humanities; Science News; American Journal of Public Health; Healthcare Financial Management Journal; Journal of Law, Medicine & Ethics; Computer Animation and Virtual Worlds;* and *Computer Graphics World*.

DeVry also takes advantage of interlibrary loan and consortia arrangements to extend the reach of available collections.

All library resources are available to DeVry alumni visiting a campus library. Alumni may also borrow books from any DeVry library and take advantage of remote access to selected electronic resources. Restrictions may apply.

### Elective and/or Alternate Courses

DeVry University offers a variety of undergraduate-level elective and alternate courses that supports each program's objectives and graduation requirements. In consultation with faculty and program administrators, students may select these courses, as shown in this catalog, as replacements for recommended courses provided prerequisite requirements and credit hour minimums within each course area are satisfied (see *Colleges & Programs of Study*).

Students enrolled in a DeVry associate degree program who plan to complete a corresponding DeVry bachelor's degree program (see chart) must communicate this intention to their student support advisor/academic advisor. Students must communicate this intention prior to enrolling in coursework applicable to the bachelor's degree program only.

| Corresponding DeVry Associate and Bachelor's Degree Programs | |
|---|---|
| **Associate Degree Program(s)** | **Bachelor's Degree Program(s)** |
| Network Systems Administration | Network & Communications Management, Technical Management |
| Web Graphic Design | Multimedia Design & Development, Technical Management |
| All other associate degree programs | Technical Management |

*Note: Restrictions on financial aid for these courses may apply (see* Financial Aid Applicability to Elective and/or Alternate Courses*).*

### Course Equivalencies

Certain DeVry courses that include similar, but not necessarily identical, content are considered equivalent to one another. As such, to fulfill a certain graduation requirement, students may be able to complete a course not shown in their program outline provided the course is considered equivalent. Course equivalency information is available from the appropriate academic administrator.

Limitations exist. Students are strongly advised to seek academic advising before enrolling in a course they believe to be equivalent to one that fulfills a graduation requirement.

### Honors Certificate and Coursework

DeVry notifies eligible students that they may apply to the University's honors certificate program. Those accepted who successfully complete at least five honors courses earn an honors certificate.

Successful completion of an honors course is defined as earning a grade of A, B or C. Courses in which a grade of D is earned do not fulfill honors certificate requirements; however, they may fulfill program requirements. Courses marked with a plus sign (+) in *Course Descriptions* are available as honors courses.

Students work with an appropriate academic administrator to select and register for honors courses appropriate for their programs; self-registration for these courses is restricted.

Honors courses are designated on students' schedules by the standard course number followed by an "H." In addition, all completed honors courses appear on students' transcripts.

### General Education Courses

General education coursework is integral to DeVry curricula and extends the range of learning while providing a context for specialized study. To this end, communication skills, social sciences, humanities, and math and science courses are included in the curricula to help broaden students' perspectives. Such courses also help develop skills and competencies that enhance students' academic success, as well as graduates' personal and professional potential.

### Philosophy of General Education

DeVry integrates a strong general education with a basic emphasis on specialty studies. To ensure that students benefit from both areas of learning, DeVry's general education is oriented toward challenges and issues of the contemporary world. General education courses provide the fundamental principles and skills of their fields but freely use applications drawn from students' technical and career-related interests. Specialty courses, in turn, reinforce general education competencies through assignments requiring applied research, teamwork, written and oral communication, and consideration of ethics. This well-rounded education prepares DeVry graduates to live full and satisfying lives and to participate meaningfully as citizens in a diverse and dynamic society.

General education competencies expected from a DeVry education include the ability to:

- Communicate clearly with particular audiences for specific purposes.
- Work collaboratively to help achieve individual and group goals.
- Apply critical thinking skills in learning, conducting applied research, and defining and solving problems.
- Develop tolerance of ambiguity and mature judgment in exploring intellectual issues.
- Build on intellectual curiosity with fundamental concepts and methods of inquiry from the sciences, social sciences and humanities to support lifelong learning.
- Apply mathematical principles and concepts to problem-solving and logical reasoning.
- Use study and direct experience of the humanities and social sciences to develop a clear perspective on the breadth and diversity, as well as the commonality, of human experience.
- Connect general education to the ethical dimensions of issues as well as to responsible, thoughtful citizenship in a democratic society.

To help achieve general education goals, faculty and administrators use strategies such as:

- Incorporating meaningful writing and oral presentation assignments across the curriculum, including applied research as part of assignments.
- Using collaborative approaches, such as project teams, to strengthen learning, provide direct experience, and build on diversity of backgrounds and viewpoints.
- Implementing a general education capstone course – Technology, Society, and Culture – that integrates general education and specialty learning.
- Offering co-curricular activities – such as service learning, artistic and cultural presentations, speakers and student publications – to reinforce general education competencies.
- Providing across all programs a coherent structure of general education consisting of well-designed course combinations that are properly sequenced, adjusted to various levels of learning and coordinated with each other.

## Course Delivery

DeVry offers courses in a session format, with two eight-week sessions offered each semester. All courses draw from the eLearning platform, which reinforces active learning; provides a common course structure and communication vehicle; and offers centralized student resources, including course syllabi, objectives, assignments, tutorials, discussions, weekly milestones and grade updates. Session-based courses may be delivered as:

**Blended**
In blended courses, students meet with faculty face-to-face onsite each week and also participate in professor-guided online activities. Course objectives are supported by combining weekly onsite activities with relevant online guidance and feedback from faculty and fellow students throughout the week.

**Onsite**
In onsite courses, weekly scheduled contact hours are increased to provide opportunity for both professor demonstrations and lab time during which students apply concepts. Thus, course concepts are introduced and practiced face-to-face. Each week, onsite courses include at least two hours of eLearning activities including preparing for class, reading overviews, participating in discussions and checking grades.

**Online**
In online classes, students select the time to join online class activities and to access materials and announcements. With support of online professors, students are guided through textbook readings and assignments, then participate in related weekly discussions through electronic posts. Via the eLearning platform, students ask questions, access additional resources, submit work and receive feedback.

## Class Size

Site-based classes generally range from 10 to 40 students. Online class size is generally limited to 30 students. Class size varies by location and course.

## Accounting Courses

Several DeVry accounting courses integrate the learning approaches and materials of Becker Professional Education, which help prepare students for the world of professional accounting.

## Course-Related Requirements

### Courses and Associated Labs
Some course titles include the words "with Lab." Labs within such courses are delivered in various ways, depending on course material and delivery format. For onsite courses, lab activities may be delivered in a separate lab facility or in an integrated lecture-lab classroom. In online courses, lab activities are integrated into the course design, and students participate in them remotely by means of provided software, simulations or the Internet. Lab activities may also be provided via these capabilities to onsite students, particularly students taking blended courses at smaller DeVry locations.

### Corequisite Enrollment
When a course description lists a corequisite, enrollment in that course and its corequisite is generally required during the same semester or session.

### Prerequisite Enrollment
Students currently enrolled in prerequisite courses meet the prerequisite requirement for registration into subsequent courses. Students who do not successfully complete prerequisite course requirements are administratively dropped from any courses requiring the prerequisite. Students are also administratively dropped from courses if an Incomplete is recorded for the

prerequisite course. Students are notified of dropped courses by email. A reduction in enrolled hours may affect financial aid eligibility and/or awards.

**Transitional Studies Courses**
Transitional studies coursework provides individualized intensive support and skill development for students who require additional instruction in English composition and/or beginning algebra. Transitional studies courses may be offered in various formats, and may be taken separately or in conjunction with other coursework, provided prerequisites are met. Students requiring transitional studies must begin this coursework no later than their second session of enrollment and must continue to enroll in at least one transitional studies course each session of attendance until all transitional studies requirements have been satisfied.

Those who have not met these requirements may not be able to self-register for courses until all transitional studies requirements have been satisfied. Permission to enroll in many standard-level courses is dependent on successful completion of transitional studies coursework.

Students who cannot self-register should contact their student support advisor or academic advisor to complete the registration process.

Transitional studies courses may not be applied to elective course requirements.

DeVry reserves the right to limit enrollment of applicants requiring transitional studies coursework; limitations may vary by location.

## Standards of Academic Progress Terminology

The U.S. Department of Education requires schools participating in federal student aid (FSA) programs to use the terms "financial aid warning" and "financial aid probation" when indicating students' academic standing. These terms are used to indicate the academic standing of *all* students, including those not using FSA funds.

Criteria for determining financial aid warning and academic warning are identical; criteria for determining financial aid probation and academic probation are identical.

## Electronics and Engineering Technology Programs – General Course Requirements

DeVry electronics and engineering technology programs – whether delivered onsite or online – include courses that require students to complete a significant amount of lab work. Onsite students complete this work in a DeVry lab; online students complete such work at home. In addition to completing general programming exercises, all students must use electronic test equipment; construct electronic circuits and systems; and use simulation software.

Students should note that, among other things, they must have the ability to visually recognize electrical components as well as manual dexterity. Additionally, some courses involve use of a hot soldering iron that, if not used properly, can cause severe burns. These elements are essential to meeting program requirements. As such, students who cannot meet these program requirements cannot graduate.

## Employment in Justice Administration

Applicants for jobs in the justice administration field may be subject to pre-employment screenings such as, but not limited to, criminal background checks, drug and/or alcohol testing, physical and/or psychological examinations and credit checks. Unsatisfactory screening results may result in denial of an offer for a position in the justice administration field.

## Healthcare Practicum and Clinical Coursework Requirements

Certain DeVry programs require students to successfully complete practicum or clinical coursework at an affiliated healthcare site. Before accepting students, such healthcare sites require a physical exam, proof of freedom from communicable disease, a criminal background check and/or a drug screen. Random drug screens may be required. Students rejected by a practicum or clinical site for any reason cannot finish their programs' required coursework and therefore cannot graduate.

Applicants to, and students in, programs with practicum or clinical coursework components must comply with DeVry's requirements for their program. Failure to fully disclose a criminal record, failure to comply with background and/or drug screening requirements, or failure to have a satisfactory outcome may result in denial of admission to, or dismissal from, the program.

## Healthcare Site Requirements

Certain DeVry programs may include coursework at an affiliated healthcare site. Before accepting students, such healthcare sites may require a physical exam, proof of freedom from communicable disease, a criminal background check and/or a drug screen. Random drug screens may be required.

## Healthcare Site General Information

Transportation to off-campus healthcare sites, meals at such sites and personal expenses are not included when calculating students' annual costs. These expenses vary according to individual student needs. DeVry attempts to place students at healthcare sites within a 50-mile radius of the campus they attend; however, distances may be greater.

## Additional Academic and Administrative Requirements for Clinical Laboratory Science Program Students

**Course Prerequisites**

For courses listing a CLS course as a prerequisite, a grade of C or higher in the prerequisite course is required in order to enroll in the subsequent course.

**Additional Requirements for Enrollment in, and Successful Completion of, CLS299**

Students in the CLS program must meet the following requirements in order to enroll in CLS299:

- Be in good academic standing.
- Have passed, or be concurrently enrolled in, any required course with a BIOS or CHEM prefix.
- Have passed, or be concurrently enrolled in, CLS100, CLS210, CLS225, CLS230, CLS240 and CLS408.

Concurrent enrollment requires professor approval.

To successfully complete CLS299, students must provide documentation of the following. Personal health status (documentation must be received from students' healthcare providers).

- A standard history and physical examination performed by students' family or school physicians within one year of starting CLS299.
- A PPD intermediate skin test within one year of starting CLS299, except for students who received the BCG vaccination.
- A chest X-ray, for students whose PPD test results are positive or whose examining physicians request the X-ray.
- Records of completed courses of immunization that include Rubella (Rubella titer accepted in lieu of Rubella immunization).
- Evidence of Varicella immune status by titer.
- Proof of acceptable vaccination for, or lab evidence of immunity to, measles (if students' year of birth is after 1956).
- Evidence of Hepatitis B vaccination. Students not wishing to receive this vaccination series must sign a declination and submit it to their academic advisor. Declinations become part of students' health records.
- Declaration of students' ability to function in a clinical setting.
- Undergo a criminal background check at their expense. Students whose results prevent them from participating in clinical activities cannot finish the program's required coursework and therefore cannot graduate.
- Be tested for illegal substance use at their expense. Students whose test results are positive cannot finish the program's required coursework and therefore cannot graduate. Random drug screening may be required.

If students do not remain continuously enrolled after meeting the above requirements, updated documentation may be required.

**Requirements for Enrolling in a Practicum Course**

To enroll and participate in a practicum course, students must:

- Be in good academic standing.
- Earn a grade of C or higher in CLS299.
- Receive permission from the appropriate academic administrator. To determine students' readiness for additional clinical coursework, the administrator assesses candidates' technical competency; emotional stability and maturity; interpersonal communication skills; and ability to effectively relate to other healthcare professionals.
- Purchase appropriate attire, such as scrubs, required by the practicum clinical affiliate.

Individual healthcare facilities may have additional requirements. CLS students will be informed of such requirements by the appropriate academic administrator.

**Clinical Laboratory Abilities**

To successfully complete clinical coursework required in the Clinical Laboratory Science program, students are expected to have the functional abilities shown below.

| Functional Ability | Expected Ability/Abilities | Examples |
|---|---|---|
| Physical stamina | Exhibit physical strength and endurance appropriate to healthcare professionals throughout assigned shifts | Lift or move patients, support patient walking, work complete shifts, conduct CPR |
| Hearing | Hear – with or without aids – voices, sounds and monitoring alarms required for safe practice | Hear patients speaking, respond to equipment alarms |
| Sight | Distinguish color and visual images within normal range | Determine color changes during physical assessment and lab procedures; read computer/monitoring screens while using healthcare equipment such as microscopes, lab analyzers, etc. |
| Olfactory sensation | Detect odors, unusual smells or smoke | Assess odors during physical assessment, detect odor of smoke or other fumes |
| Tactile sensation | Interpret sensations, temperature and environmental temperature | Perform palpation for monitoring or procedures, respond to environmental temperature changes, sense device movement |
| Physical health status | Maintain physical health consistent with employment responsibilities and commitments | Monitor own health |
| Mental health status | Maintain focus and emotional stability in stressful situations, and respond to others' needs | Manage own emotions, respond appropriately in crisis situations, adapt to change readily, maintain therapeutic boundaries |
| Gross motor skills | Exhibit ability to move, sit, stand and walk safely | Bend, stoop or reach for objects; maintain balance |
| Fine motor skills | Demonstrate ability to write with, grasp, pick up and manipulate small objects | Write legibly, manipulate syringes, calibrate equipment, use micropipettes |
| Mobility | Demonstrate physical abilities consistent with role | Move quickly from place to place, move freely in patient care areas or within lab |

## Additional Requirements – Neurodiagnostic Technology Program
**Personal Health Status Requirements**

Prior to enrollment in the NDT program's clinical portion, students must submit a completed health history and physical examination report along with a signed letter of understanding regarding responsibility for personal medical care. Documentation of the following must be provided by the student before the first class session of NDT256, Clinical Practicum IA:

- A standard history and physical examination performed by the student's family or school physician within one year of the starting date of the affiliation.

- A PPD intermediate skin test within one year of the starting date of the affiliation, except for students who received the BCG vaccine.

- A chest X-ray, for students whose PPD test results are positive or whose examining physician requests the X-ray.

- Records of completed courses of immunization that include Rubella. (Rubella titer is accepted in lieu of Rubella immunization.)

- Evidence of Varicella immune status by titer.

- Proof of acceptable vaccination for, or lab evidence of immunity to, measles (for students born after 1956).

In addition:

- Students must be evaluated annually by a physician in order to continue their clinical studies.

- The Hepatitis B vaccine is recommended for students in high-risk areas or having frequent blood contact. Students unable to receive the Hepatitis B vaccine series must sign and submit a waiver to their student support advisor. Waivers become part of students' health records.

**Clinical Agency and Other Requirements**

NDT program students must meet additional requirements before enrolling in NDT256, which typically begins in the third semester of study. Candidates for admission to the clinical program must:

- Achieve grades of B (80 percent) or better in Algebra for College Students (MATH114), Fundamentals of Human Anatomy and Physiology with Lab (BIOS105), and Neuroelectric Theory and Instrumentation I and II (NDT155 and NDT205, respectively). Students may repeat a course one time only.

- Earn certification by math faculty of demonstrated mastery of MATH114 topics.

- Be recommended by the NDT program's clinical program director for admission to clinical studies upon completion of NDT205. To determine students' readiness to begin clinical rotations, the director will assess candidates' technical competency, emotional stability and maturity, interpersonal and communication skills, and capacity for patient empathy.

- Undergo a criminal background check, performed at least 30 – but no more than 180 – days before commencement of the clinical assignment. This check must be arranged through DeVry's Human Resources Department and is at students' expense (see *Expenses*). Students whose results prevent them from participating in clinical activities cannot finish their program's required coursework and therefore cannot graduate.

- Be tested for illegal substance use. This screening must be arranged through DeVry's Human Resources Department and is at students' expense (see *Expenses*). Students whose test results are positive cannot finish the program's required coursework and therefore cannot graduate.

- Purchase a prescribed uniform (scrubs) to be worn during clinical rotations (see *Expenses*).

- Attend overnight polysomnography clinical training classes, which extend over a nine-week period but are not necessarily consecutive in nature.

Additionally, NDT program students must be trained in cardiopulmonary resuscitation (CPR) prior to graduation. Students without such training may complete a CPR course, at their own expense, during their clinical rotations at the New Jersey Neuroscience Institute (see *Expenses*).

## Sequenced Courses for Neurodiagnostic Technology Program

Pairs of NDT courses are identified as "sequenced" in *Course Area Details* and in *Course Descriptions*. Each two-course sequence must be completed within two consecutive sessions and may not be taken independently. Students register for both courses at the beginning of the sequence. Students who withdraw from the first course are assigned a designator of W (Withdrawal) for the first course and are dropped from the subsequent course. If the first course is completed, a designator of I (Incomplete) is assigned until the second course is graded. When the second course is completed, the same grade is awarded for both courses. If students drop or withdraw from the second course, the first course is assigned a designator of W. If a retake of the second course is required for any reason, both the first and the second courses must be retaken. These courses are not included in satisfactory academic progress calculations until both courses in the sequence have been graded. Incompletes assigned to the first course do not result in designators of U while students continue in the second course.

# Admission Requirements & Procedures

## General Admission Requirements

*Note: Enrollment for selected programs, formats and applicants is subject to additional requirements. DeVry does not accept Ability to Benefit students.*

To be granted admission to DeVry, a prospective student must interview with a DeVry admissions advisor (admissions representative in Florida, Massachusetts, Minnesota, Nebraska and Oregon, and online) and complete an application for admission. In addition, all other general and specific admission requirements must be met, including those regarding age, prior education and evaluation of proficiency in the college-level skills needed for coursework in the chosen field of study. Once DeVry accepts the application paperwork, applicants are provisionally admitted, pending satisfaction of all remaining admission conditions.

Applicants with prior post-secondary attendance must present transcripts indicating all previous work. Students requesting transfer credit for prior post-secondary education must submit official transcripts before credit is awarded. An unofficial evaluation of transfer credit may be provided pending receipt of official transcripts.

Applications may be taken through the end of late registration only. DeVry reserves the right to deny admission to any applicant and to change entrance requirements without prior notice. Applicants are notified of their admission acceptance or denial in writing.

Applicants should note that color is one method used for coding electronic components; consequently, color-blind individuals may have difficulty in some courses.

Students attending a New York location must present proof of immunization against certain diseases as required by New York law. Applicants should contact the Student Services Office for further information.

### Age Requirement
Each applicant must be at least 17 years old on the first day of classes. Documentation of age may be required.

### Prior Education Requirement
Each applicant must have earned one of the following educational credentials from a DeVry-recognized organization: a high school diploma or equivalent; a General Educational Development (GED) certificate; or a post-secondary or professional degree. The diploma or other acceptable documentation of the applicant's educational achievement must be provided for the student's file by the end of registration unless the University grants an extension. An official high school transcript (or equivalent documentation) with the high school graduation date; an official GED transcript with content scores and an indicator that the student passed the GED test; or an official college transcript (or equivalent documentation) with the grade point average (GPA) and, if applicable, the graduation date must be provided for the student's file by the end of the second session of enrollment (see *Additional Admission Requirements for International Applicants*). Students who do not meet this deadline are dropped from all courses in which they are enrolled for future sessions. Until official transcripts are received, such students may not enroll.

## College-Level Skills Evaluation Requirement
Prior educational performance is considered in conjunction with demonstrated proficiency in college-level skills to determine admissibility. DeVry grants admission to individuals whose prior educational performance meets the criteria outlined below. Applicants whose prior educational performance does not meet these criteria must complete the college-level skills evaluation and demonstrate specific skill levels in order to be granted admission. All applicants must complete the college-level skills evaluation through standard means prior to starting classes, to determine appropriate initial course placement.

### Prior Educational Performance
Applicants are accepted if they meet at least one of the following criteria:

- Have earned a qualifying associate degree or higher from a DeVry-recognized post-secondary institution.

- Have completed an appropriate amount of qualifying college-level work at DeVry-recognized post-secondary institutions, with grades of at least C (70 percent) or a cumulative grade point average of at least 2.00.

- Have achieved an Armed Forces Qualification Test (AFQT) score of at least 60 on their Armed Services Vocational Aptitude Battery (ASVAB) for admission to the military as documented on an original score report.*

- Have earned a Canadian high school diploma in a program of study that includes successful completion of a 30-level Math and a 30-level English course from Alberta, or equivalent achievement from another province or territory.

### College-Level Skills Evaluation
Applicants must evidence college-level skills appropriate to the chosen program in at least one of the following ways:

- Submit ACT or SAT examination scores deemed appropriate by DeVry. Although requirements may vary by program, the minimum scores DeVry considers when evaluating college-level skills are: ACT Math – 17; ACT English – 17; SAT Math – 460; SAT Verbal/Critical Reading – 460. Applicants with lower scores in one or both areas may still demonstrate college-level skills in any of the other ways listed.

- Attain appropriate scores on DeVry-administered placement examinations in reading, writing, arithmetic and algebra.

- Submit required documentation indicating acceptable grades in qualifying work completed at a recognized institution.

### College-Level Skills  Evaluation Results
Applicants who do not qualify for admission through prior educational performance, and whose demonstrated proficiency in college-level skills does not meet the minimum requirements for admission, are advised of the skill area(s) needing improvement. At DeVry's discretion, these applicants may be offered enrollment in focused foundational coursework to strengthen required skills. Successful completion of such coursework may provide an additional opportunity to qualify for admission. There is no tuition charge for this coursework. Details are available in the *Foundations* supplement. Applicants unable to participate in foundations coursework may consult the Academic Department regarding approval for external alternative coursework.

*\*This applies only to active duty military personnel, National Guard members and Reserve U.S. military personnel. This provision excludes military spouses, dependents, Department of Defense civilians, separated veterans and military retirees. Applicants accepted based on an Armed Forces Qualification Test (AFQT) score must complete placement testing to determine initial course placement.*

Applicants whose demonstrated proficiency in college-level skills indicates they are prepared to enroll directly into their program's standard coursework without any preceding transitional studies coursework are referred to as placing at the standard level.

Applicants whose demonstrated proficiency in college-level skills indicates transitional studies coursework is necessary are advised accordingly. Required transitional studies coursework may affect program length and cost. Successful completion of such coursework in a subject demonstrates proficiency at the standard level in that subject and is a prerequisite for enrollment in many standard courses.

Students requiring transitional studies coursework must begin this coursework no later than their second session of enrollment and must continue to enroll in at least one transitional studies course each session of attendance until all such requirements have been satisfied.

Those who have not met these requirements may not be able to self-register for courses until all skills requirements have been satisfied. Permission to enroll in many standard courses is dependent on successful completion of such coursework.

Students who cannot self-register should contact their student support advisor or academic advisor to complete the registration process.

DeVry reserves the right to limit enrollment of applicants requiring transitional studies coursework; limitations may vary by location.

**Course Diagnostic Tests**
Initial course placements are based on a student's demonstrated college-level skills. In selected courses, additional focused diagnostic testing may occur at the beginning of the course. This may result in the student being required to enroll in coursework at the immediately prior proficiency level or receiving permission to enroll at the next higher level.

**Pathway to DeVry University Master's Degree Programs**
Graduates who hold a DeVry bachelor's degree and whose undergraduate grade point average at graduation is at least 2.70 meet general admission requirements for the University's graduate school. Admitted graduate students must either present grades of B or better in the appropriate English and mathematics courses or take placement examinations in order to determine their initial course placements. Further, selected DeVry coursework is considered for possible course exemptions in the University's post-baccalaureate degree programs, thus reducing the number of courses required for a master's degree. Application of course exemptions varies by state.

Students should note that enrollment for selected graduate programs is subject to additional requirements noted in DeVry's graduate school catalogs.

These arrangements between the undergraduate and graduate programs provide an effective and convenient pathway to further education for qualified DeVry graduates, ensure smooth transition and enable completion of graduate studies in a timely manner.

### Special Admission Requirements for Game & Simulation Programming Program Applicants
Applicants to the Game & Simulation Programming program must demonstrate college-level skills that indicate they are prepared to enroll directly into the program's standard-level coursework and do not require transitional studies coursework.

*Note: Internal transfers from any DeVry program into the Game & Simulation Programming program are not permitted.*

### Special Admission Requirements for Medical Billing & Coding Program Applicants
Applicants to the Medical Billing & Coding program must complete DeVry's English placement exam; those who place into transitional studies coursework in English must take ENGL062 in their first session as part of their program requirements.

MBC program applicants are not required to complete the University's math placement exam. In addition, MBC program applicants without prior education experience and who test into foundations coursework are not admitted but are offered enrollment in ENGL017.

### Special Admission Requirements for Neurodiagnostic Technology Program Applicants
Applicants to the Neurodiagnostic Technology program must demonstrate college-level skills that indicate they are prepared to enroll directly into the program's standard-level coursework and do not require transitional studies coursework.

### Additional Admission Requirements for Applicants to the Communications Program with Communication Design Management Completion Option
To be admitted to the Communications program with Communication Design Management Completion Option, applicants must hold a DeVry-recognized associate degree or higher.

### Additional Admission Requirements for Management and Technical Management Program Applicants
Applicants to the Management and Technical Management programs must have successfully completed at least 12 semester-credit hours at a recognized post-secondary institution, or must hold a DeVry-recognized associate degree or higher.

*Note: Admission to the Technical Management program does not require prior college credit for those enrolled at a New Jersey location.*

### Additional Admission Requirements for Enrollment in Online Coursework
To be eligible for study in online coursework, applicants must meet all general admission requirements, including the college-level skills evaluation. Students must also own or have off-site access to a PC or laptop computer that meets location- or program-based requirements, including Internet access. They are also responsible for checking hardware/software requirements before registering for courses. Computer requirements for students enrolled in online courses are specified at www.devry.edu/online-education/technical-specs-requirements.html.

### Additional Admission Requirements for International Applicants
*Note: International applicants should obtain academic advising prior to enrolling to ensure they can retain nonimmigrant status while enrolled at DeVry.*

Most DeVry locations are authorized by Immigration and Customs Enforcement (ICE) to accept and enroll F-1 visa students and require international applicants to submit certain financial and academic documentation before they will be considered for admission. To be considered for admission to DeVry, and before an I-20 can be issued, international applicants must:
- Provide certified copies of acceptable documents demonstrating the required level of prior education. Such documents may include high school transcripts, leaving certificates, scores on approved examinations or college transcripts (see *Specially Recruited International Applicants*). Foreign diplomas and

supporting foreign transcripts not written in English must be translated into English by a certified translator and may require review by one of the following approved educational credentials evaluation agencies at the applicant's expense*:

- A current member of the National Association of Credential Evaluation Services (NACES)
- AACRAO International Education Services (formerly AACRAO's Foreign Educational Credential Service)
- Educated Choices, LLC
- Foreign Credentials Service of America
- A current member of the Association of International Credentials Evaluators (AICE)

- Meet requirements outlined in *English-Language-Proficiency Admission Requirement*, if applicable.

- Meet all other DeVry admission requirements. International applicants residing outside the United States who must be accepted prior to entering the country must submit ACT/SAT scores, transcripts of prior college coursework, or acceptable documentation of prior mathematics and overall educational performance deemed appropriate for placement into the intended program. DeVry administered online math and verbal placement tests are available to international applicants who must test before entering the United States.

Applicants should check with their consulate or embassy for other pertinent requirements.

DeVry is also authorized to accept and enroll international applicants who wish to transfer to DeVry from other U.S. institutions. In addition to providing the items listed above, transfer applicants must notify the current institution of their intent to transfer. DeVry will communicate with the current institution and process the necessary immigration forms to complete the transfer.

The level of career services offered to international students/graduates varies and depends on employment opportunities permitted by the North American Free Trade Agreement and/or on students'/graduates' visas. DeVry provides career-planning strategies to international students upon request.

### Special Admission – Fremont J-1 Visa Program
The J-1 Exchange Visitor Program provides exchange visitors with the opportunity to participate in educational and cultural programs in the United States and encourages Americans to participate in educational and cultural programs in other countries. 22 CFR § 62.1(b).

DeVry University has been approved by the U.S. State Department to serve as visa sponsor for students from DeVry Brasil – an affiliated university-level educational institution in Brazil – who want to attend DeVry University as J-1 exchange visitors. Through a partnership facilitated by the universities, Brazilian students study at DeVry University's Fremont, California, campus for one semester.

Applicants admitted to this program are admitted as nonmatriculating students and must meet all other DeVry University admission requirements. Certain financial and academic documentation may also be required for admittance. Program participants enter the United States with a J-1 Visa and are identified as exchange visitors.

*Note: Depending on the particular institution or country of origin, DeVry may require an applicant's foreign credentials be evaluated by a specific agency for admission. In the event the applicant has already submitted a credentials evaluation from another agency and it is determined that an additional evaluation is necessary, DeVry will cover the cost of the associated fees of the additional evaluation.*

### Specially Recruited International Applicants
International applicants recruited by recognized agents must provide certified copies of acceptable documents demonstrating the required level of prior education before the end of the second session of enrollment. All other admission requirements for international applicants apply. For a list of recognized agents, visit www.devry.edu/admissions/international/international-students-admissions.html.

### English-Language-Proficiency Admission Requirement
All instruction and services are provided in English.

In addition to fulfilling all other admission requirements, applicants whose native language is other than English must demonstrate English-language proficiency. The English-language proficiency requirement is waived for applicants who meet one of the following criteria:

- English is identified as the official/native language of the country in which the applicants completed all of their secondary education, or postsecondary, advanced or professional degree, as designated in the CIA's *The World Factbook* at: https://www.cia.gov/library/publications/the-world-factbook/.
- English is not the official/native language of the country in which the applicants completed their secondary or postsecondary education; however, English was the principal language of instruction at their institution*.

Applicants whose native language is other than English may also demonstrate English-language proficiency by providing evidence of one of the following:

- Submission of a U.S. high school diploma or GED certificate (completed in English).
- Submission of a high school diploma, or post-secondary degree or higher, earned at an institution in which the language of instruction was English*.
- Submission of a post-secondary transcript verifying completion of 12 semester-credit hours of baccalaureate-level (excluding remedial or developmental) courses with at least a C (70 percent) average from an institution in which the language of instruction was English*.
- Submission of an earned Test of English as a Foreign Language (TOEFL) score of at least 500 on the paper-based TOEFL, 190 on the computer-based TOEFL or 61 on the Internet-based TOEFL.
- Submission of an overall band score of at least 6.0 on the International English Language Testing System (IELTS) exam.
- Submission of an overall score of at least 4.0 on the International Test of English Proficiency (iTEP) Academic-Plus exam.
- Submission of an overall score of at least 58 on the Pearson Test of English (PTE) Academic.
- Successful completion of an approved external Intensive English Program.
- Submission of documents demonstrating successful completion of a DeVry-recognized intermediate-level English as a Second Language (ESL) course.
- Completion of *either* of the following, with a grade of B (80 percent) or higher, from a DeVry-recognized post-secondary institution or community college:

*Such applicants may submit a letter from the institution's registrar or principal indicating the language of instruction at the institution was English or that the program was taught in English. Also acceptable is a credentials evaluation report from an approved education credentials evaluation agency indicating the language of instruction at the institution was English or the program was taught in English.*

- The equivalent of DeVry's freshman English composition course,

  – or –

- Two or more baccalaureate-level English writing or composition courses.

- Documents verifying at least two years' service in the U.S. military.

- Having attained acceptable scores on a DeVry-administered English-language-proficiency exam**.

At DeVry University locations offering an ESL program, different English-language-proficiency requirements apply. Details are available in the *English as a Second Language* supplement, available via www.devry.edu/catalogs. International applicants requiring an I-20 may not take DeVry ESL courses.

### Additional Admission Requirements for Home-Schooled Applicants

Home-schooled applicants must provide one of the following:

- A transcript indicating the applicant has met minimum high school core subject requirements as defined by the state governing board or province. Documentation should include course titles, duration of study (including dates of completion), grades or assessment of performance, and credits earned. Information should be delineated by grade years nine, 10, 11 and 12.

- Documentation outlining courses an applicant has completed, year by year, and all end-of-year evaluations of courses by a home-school evaluator or staff person assigned to the student by the local school board or state-approved home school organization. The minimum number of units required in each core subject is: English, three; mathematics, two; natural sciences, one; social sciences, one. Such information must be documented on the transcript.

In addition, such applicants must:

- Meet the age requirement (see *Age Requirement*).
- Provide official transcripts from the secondary school or post-secondary institution where formal coursework has been used to supplement the home-schooling experience.
- Provide a brief school profile description indicating the school's location and contact information.

The DeVry University Assessment Center evaluates and approves portfolios. Applicants whose portfolios indicate achievement of a level equivalent to high school work will be notified and may proceed with all other admission requirements.

Applicants may also gain admission by earning a GED certificate or by presenting official documentation of having met state requirements for the equivalent of a high school diploma.

### Additional Admission Requirements for Business Administration Program Applicants Selecting General Business Option Plan II

In addition to meeting all regular admission requirements, applicants selecting this option must have earned a business-related credential approved by DeVry for articulation. Among others, the following credentials are considered:

*\*\*International applicants requiring an I-20 may not take DeVry-administered ESL tests.*

- A three-year bachelor of commerce or bachelor of business administration degree in India. The credential, as well as the granting institution, must be recognized by the appropriate agency in India, and the applicant's overall average marks in the program must have been at an acceptable level, as defined by DeVry.

- A higher national diploma meeting the requirements of the Scottish Qualifications Authority or other approved authority. The credential, as well as the granting institution, must be recognized by the appropriate national agency.

### Special Admission Requirements for Nonmatriculating Applicants

Applicants wishing to enroll in courses for personal or professional enrichment, but who do not intend to pursue a program of study, must submit an application for admission and complete a nonmatriculated student enrollment agreement. Some general admission requirements and procedures may be waived, especially for high school students participating in an approved enrollment plan. Applicants must demonstrate they possess the requisite skills and competencies for the intended coursework and meet requirements outlined in *English-Language-Proficiency Admission Requirement*; an academic administrator will evaluate applicants' status by appropriate means. Applicants who did not demonstrate college-level skills required for the chosen program; failed to meet DeVry's standards of academic progress; or are required to take ESL coursework may not enroll as nonmatriculated students.

Enrollment with nonmatriculated status is limited to course attempts totaling 24 semester-credit hours, and further restrictions may be imposed if students are not making adequate progress. Nonmatriculated students seeking to pursue a program of study must submit a written request to the program administrator; meet all admission, financial and academic requirements for the intended program; submit a matriculating student application; and sign a new enrollment agreement before permission to pursue the program of study is granted.

Nonmatriculated students are not eligible for the Dean's List recognition, career services, housing assistance, part-time-employment assistance, federal or state financial aid, DeVry University scholarships or benefits through the U.S. Department of Veterans Affairs.

Other requirements may apply for nonmatriculated students seeking admission to DeVry's master's degree program in Electrical Engineering (see below).

#### Admission to DeVry's Master's Degree Program in Electrical Engineering

To qualify for admission to DeVry's MSEE program, some applicants must complete undergraduate bridge coursework supplementing their baccalaureate-level coursework. Applicants' bridge requirements are specified by the MSEE program committee as part of the application process. Applicants requiring bridge coursework enroll as undergraduate nonmatriculated students by completing a special enrollment agreement and related documents. DeVry's limit of 24 semester-credit hours of attempted coursework does not apply to bridge students, though specific standards of academic progress are applicable. Descriptions for bridge courses are found in DeVry's *MSEE Bridge Supplement*, available at www.devry.edu/catalogs.

## Admission to DeVry-Administered Study Abroad Program

DeVry's Study Abroad program offers faculty-directed programs in specific countries, affording students the opportunity to gain firsthand understanding of other cultures.

In addition to being admitted to the University, students must apply for, and be admitted to, the Study Abroad program. At the time of application to the Study Abroad program, students must:

- Be 19 years old or older.
- Have a valid passport.
- Have completed at least 15 semester-credit hours in residence at DeVry.
- Have a minimum 2.70 cumulative grade point average.
- Have completed all prerequisite coursework associated with courses in the Study Abroad program.
- Be in good academic standing and have no holds (academic, disciplinary/misconduct or financial) on their student record.

Study Abroad students must:

- Take courses on a "for credit" basis; course audits are not permitted.
- Attend class events regularly and participate actively in classroom discussion.
- Observe all host country laws and abide by DeVry's Academic Integrity and Code of Conduct regulations.

Financial aid awards, including scholarships, grants and loans, may be applied to students' tuition, airfare and lodging costs. Students are encouraged to check with the Student Finance Office regarding any restrictions that may apply. Students expelled from the Study Abroad program are not entitled to any refund of tuition or fees.

Courses completed during a study abroad experience are designated on students' transcripts with the course designator and course number (e.g., BUSN369), plus "SA" (e.g., BUSN369SA). Credit for a course with the same designator and number – either with or without the SA indicator – may not be applied more than once to students' graduation requirements.

Students who successfully completed such a course without an SA indicator and wish to participate in a study abroad experience may choose to repeat the course (see *Repeated Courses*). The highest grade earned is used in computing the CGPA.

More information on the Study Abroad program is available from student support advisors and academic advisors, as well as via http://studyabroad.devry.edu.

## Admission Procedures

Prospective students complete an application and interview with a DeVry admissions advisor/representative who provides information on programs, start dates, part-time work, student housing and graduates' employment opportunities. When all admission requirements are fulfilled, applicants are notified in writing of their admission status.

Registration and orientation schedules are arranged by each location.

## New Student Orientations

DeVry's new student orientations (NSOs) help incoming onsite students prepare for registration and acquaint their families with DeVry and its services. These students may also be able to take DeVry's placement examinations at such events.

Assistance in completing financial aid paperwork is available at some NSOs. Students needing additional help with this paperwork should contact the student support advisor or student finance consultant for the location they plan to attend.

Onsite students unable to attend an NSO or to visit the University on a weekday may make special arrangements with the new student coordinator or other appropriate staff member.

## Rescinding Admission

Applicants who submit documents that are forged, fraudulent, altered, obtained inappropriately, materially incomplete or otherwise deceptive may be denied admission or have their admission rescinded.

For those already enrolled when a fraudulent document is discovered, the misconduct is adjudicated using procedures specified in the Code of Conduct and may result in rescission of admission; revocation of a financial aid award; and/or in permanent expulsion from all DeVry institutions, including other DeVry University locations.

Students whose admission is rescinded remain responsible for fulfilling financial obligations to any DeVry institution; federal, state and local governments; and private loan providers.

More information is available in the student handbook.

# Academic Policies & Graduation Requirements

## Grade Point System and Grade Point Averages

GPAs are computed by dividing total grade points by total credit hours for which grades A, B, C, D and F are received. For each course, grade points are calculated by multiplying course credit hours by the grade index points corresponding to the grade earned. Three GPAs are maintained on student records:

- The term GPA (TGPA) is calculated at the end of each session.
- The semester GPA (SGPA) is calculated at the end of the semester/student-centric period and represents the GPA for work completed in a given semester only.
- A student's overall academic standing is stated in terms of a cumulative GPA (CGPA), which is calculated at the end of each session and is based on all grades and credit hours earned to date as a DeVry undergraduate student. The CGPA, the GPA upon which award conferral is based, becomes fixed at graduation.

All GPAs exclude grades earned in non-GPA courses (see *Prior Learning Credit*).

## Grades and Designators

DeVry uses the grading system outlined below. Designators indicate academic action rather than grades and are not included when computing academic averages. Grades are posted and made available via the student portal at the end of each session. Term, semester and cumulative grade point averages (GPAs) are calculated at the end of the session. Academic honors and academic progress evaluations – including academic standing – are calculated at the completion of each student's semester/student-centric period. GPAs are calculated using grades from undergraduate-level courses taken at DeVry University only. Grades and designators are assigned as follows:

| Grade | Percentage Equivalent | Grade Index Points |
|---|---|---|
| A | 90–100 | 4 |
| B | 80–89 | 3 |
| C* | 70–79 | 2 |
| D* | 60–69 | 1 |
| F | Below 60* | 0 |
| **Designator** | **Definition** | |
| AU | Course Audit | |
| I | Incomplete | |
| IP | In Progress | |
| S | Satisfactory | |
| U | Unsatisfactory | |
| W | Withdrawal (prior to official withdrawal deadline) | |

*\* C and D are not assigned in certain ESL, transitional studies and early term courses. In these courses a grade of F is assigned for work below 80 percent. A grade of D is not assigned in certain other such courses, where a grade of F is assigned for work below 70 percent. Course descriptions note the grading system for each course having one of these conditions.*

## Grade of F – Failing

A student who receives an F in a required course must repeat and pass the course, or receive transfer credit for the course, prior to graduation. The failed DeVry course is included in grade point averages (GPAs); however, if the student passes the course or receives transfer credit, the cumulative GPA (CGPA) is adjusted accordingly (see *Grade Point System and Grade Point Averages*). Additionally, the F is excluded from the term and semester GPAs for the session and semester in which the F was received.

## Grade of I – Incomplete

An I signifies that required coursework was not completed during the session of enrollment. Grades of I are counted in attempted hours but are not counted in any GPA computations. All required work must be completed and submitted to the professor by Sunday of week four of the subsequent session. The I must be converted to an A, B, C, D, F, S or U by Wednesday of the fifth week. If course requirements are not satisfied by the deadline, the I is converted to an F. When the I is converted to a final grade for the course, the grade is applied to the session in which the student took the course. The GPA is recalculated for that session, resulting in different term, semester and cumulative GPAs. A grade of I in a prerequisite course does not satisfy the course requirement; thus, the student is administratively dropped from the course for which the prerequisite course was required. Students are notified of dropped courses by email. A reduction in enrolled hours may affect financial aid eligibility and/or awards. An I may be assigned only when all the following conditions are met:

- The student has been making satisfactory progress in the course, as determined by the faculty member.
- The student is unable to complete some coursework because of unusual circumstances beyond personal control. The student must submit a Request for Course Incomplete form and obtain approval from the professor and the appropriate academic administrator prior to the grade roster deadline in order for an incomplete to be granted.

## Designator of AU – Course Audit

Students who wish to audit courses must receive approval to do so from the appropriate academic administrator prior to the beginning of the session. Tuition is charged for audited courses; however, financial aid may not be applied to audited courses. Thus, changing to audit status may affect financial aid awards. Though evaluation and class participation are optional, class attendance is required. If, in professors' opinions, audit students do not fulfill the above obligations, audit status may be revoked, and students may be removed from class.

Not all courses are eligible for audit status.

## Designator of S – Satisfactory

S designators are not used in GPA calculations.

## Designator of U – Unsatisfactory

U designators are not used in GPA calculations.

## Designator of W – Course Withdrawal

W designators, Withdrawals, appear on transcripts of students who attend all courses during the add/drop period and then withdraw from a course or courses, or who are administratively withdrawn from a course or courses because of an attendance violation. Students who remain enrolled in a course or courses after the course drop deadline and wish to withdraw from a course must contact their student support advisor or academic advisor, or an appropriate academic administrator. Students may withdraw at any time prior to the withdrawal deadline, which is Friday of week seven at 11:59 pm MT.

Students with no attendance activity in a course during the 14 consecutive calendar days immediately prior to the last day of the session are withdrawn from the course. Students who are withdrawn may request a grade change if they wish to receive the grade they earned in the course rather than receiving a W. Students requesting a grade change must provide supporting documentation and receive approval from both the professor and the appropriate academic administrator.

**Missing Grades**
Term GPAs or semester GPAs (when applicable), and academic standing, are not calculated for students with missing grades for the session.

## Grade Changes
Grade changes (including converting Incompletes to final grades, and changes resulting from student appeals and retroactive grade changes) affect the most recently calculated academic standing. In addition:

- If a DeVry course is repeated, the highest grade earned is used for computing the CGPA.
- Withdrawal from a course being repeated does not affect GPAs.
- If the student completes a DeVry course for which he/she has transfer credit, and grades earned for each course were the same, the DeVry grade is used in any applicable GPA calculation.
- If a student completes a DeVry course for which he/she previously or subsequently transferred an equivalent course, and the grade for the transferred course is higher, the grade earned at DeVry is excluded from GPA calculations.

Students who want to appeal their grade from a specific course must contact  their professor by Sunday of week two of the session immediately following the session in which they took the course. If issues remain unresolved after reviewing the grade with the professor, students may appeal the grade by submitting a completed Student Grade Appeal form to the appropriate academic administrator, or to their student support advisor/academic advisor. Grade appeal requests must be made during the session immediately following the session in which students were enrolled in the course. Students should consult the student handbook for more information.

## Retroactive Grade Changes
Under certain circumstances, a grade may be changed retroactively. A retroactive grade change affects:

- The TGPA, SGPA and CGPA for the session and semester in which the course was taken.
- The CGPA for each session and semester after the course was taken.
- Academic standing for the most recently completed semester only.
- A student's eligibility for financial aid for the current semester at the point the official academic record is changed.

A retroactive grade change does not affect financial aid awards for semesters that concluded prior to the change to the academic record.

## Prior Learning Credit
Students with previous college experience may receive credit toward graduation upon the University's evaluation of their college-level credit. As appropriate, DeVry awards credit for prior learning based on:

- Previous college coursework
- Military coursework and training experience
- Prior Learning Assessment
- Professional certifications and training
- Examinations

Additionally, to facilitate ease of transferring credits among institutions, the University maintains articulation agreements with many DeVry-recognized two- and four-year colleges and universities, as well as with entities such as the military. Applicable course equivalencies resulting from these agreements are reflected on students' transfer credit evaluations. Information on agreements maintained by DeVry is available by contacting ArticulationInfo@devry.edu.

Transfer and/or proficiency credits that satisfy graduation requirements are considered when determining a student's academic level and progress; however, these credits are not used when computing GPAs. Neither transfer nor proficiency credit is granted for the following, which must be completed at DeVry:

- The Liberal Arts & Sciences capstone course
- Senior project courses
- Internship courses
- Courses with the CARD prefix

Students who receive transfer or proficiency credit for a course are not automatically granted associated credit for lower-level, prerequisite and/or corequisite courses.

Acceptance of transfer courses and award of transfer credit neither imply nor ensure that all transfer credit will fully apply to students' chosen programs. Transfer courses must have been completed with grades of C (70 percent) or better.

In Oregon, a maximum of 30 semester-credit hours of proficiency credit may be applied toward graduation requirements of any program. Oregon students should consult their academic administrator for further details.

Other restrictions on transfer and proficiency credit may apply, e.g., the transferability of courses may be limited by programmatic accreditation requirements.

**Credit for Previous College Coursework**
An applicant seeking to transfer credit from another institution must request a credit evaluation prior to beginning the first class at DeVry and must provide an official transcript from the institution where the credit was earned. DeVry may require a catalog or additional material or, if credits were earned at a foreign institution, a credit evaluation by an approved external evaluation service. A maximum of 80 DeVry credit hours may be awarded for lower-division or community college courses. In Oregon, a maximum of 50 percent of a baccalaureate program's credit hours may be transferred from institutions not offering baccalaureate degrees. Transfer credit maximums are also subject to DeVry's residency requirement for the chosen program (see *General Graduation Requirements – All Students*). Students attending DeVry who seek to earn credit at another institution for transfer to DeVry must have approval to do so in advance from a DeVry academic administrator (see *Grade Point System and Grade Point Averages*).

Students may request a transcript evaluation via www.devry.edu/admissions/college-transfer-students.html. Additionally, DeVry admissions advisors/representatives, student support advisors and academic advisors are available to assist students with transfer credit evaluation requests.

**Credit for Military Coursework and Training Experience**
DeVry University is a part of the Servicemembers Opportunity Colleges (SOC) Degree Network System (DNS). As part of the DNS, DeVry adheres to academic policies intended to support all military students in their academic endeavors toward degree completion.

DeVry's participation in the DNS applies to specific academic programs and may change at any time. Additional information is available from DeVry admissions advisors/representatives and via www.soc.aascu.org.

Military coursework and educational experiences are evaluated based on American Council on Education (ACE) recommendations, which may indicate that military coursework and educational experiences qualify for either transfer credit or proficiency credit. Additional information on workforce and military training recommendations is available via the National Guide to College Credit for Workforce Training and the ACE Military Guide Online, respectively.

Additional information on credit for military coursework and training experience is available from DeVry admissions advisors/representatives.

### Prior Learning Assessment (PLA)

DeVry University offers students the opportunity to earn college credit for prior learning by means of a Prior Learning Assessment, or PLA, submitted by the student in the form of a PLA portfolio. Credit is awarded for demonstrated knowledge and application of that knowledge (not for experience alone). Submission, evaluation and documentation is administered by the Council for Adult and Experiential Learning (CAEL) as part of its LearningCounts program. All PLA portfolios must be submitted through the LearningCounts program. Students can access resources and guidance for submitting a PLA portfolio at www.learningcounts.org.

Prior to submitting a PLA portfolio, eligible students must register for and complete an online, self-paced, non-credit portfolio development course administered through LearningCounts. The portfolio development course guides students through the preparation, compilation and submission of a PLA portfolio. The non-refundable course fee includes the evaluation of the student's first portfolio. After completion of the one-time portfolio development course, future portfolio submissions are subject only to a portfolio assessment fee, paid per submission.

***PLA Eligibility:*** To be eligible for PLA credit, students must:

- Demonstrate basic English proficiency in one of the following ways:
  - Standard placement in English by means of DVU-administered testing, eligible ACT or SAT English scores or acceptable grades in qualifying college-level coursework;
  - Transfer of academic credit equivalent to ENGL112; or
  - Successful completion of ENGL112.
- Reside in the U.S. (This includes international students on an F-1 visa; however, PLA hours do not count toward the required minimum number of credit hours to be considered as full-time.)
- Submit a PLA application to their student support or academic advisor while enrolled and attending classes as a matriculating student in undergraduate coursework for the current session and prior to the final term of enrollment.
- Submit transcripts from all previously attended postsecondary institutions and request transfer credit prior to submitting the PLA application.
- Verify with an academic advisor that the course(s) for which PLA credit is being sought applies to their program requirements.
- Have satisfied DeVry University residency requirements or have enough required DVU coursework remaining to satisfy the residency requirements after PLA credit has been awarded.

***PLA Policies:*** Students pursuing prior learning assessment credit must adhere to the following University policies:

- The first portfolio must be submitted no later than six months from the date of payment for the portfolio development class.
- Prior to submitting each additional portfolio, students must submit a PLA Portfolio Request form to their student support or academic advisor; students pay an additional portfolio assessment fee for each subsequent portfolio submitted and have six months from the date of payment to submit the portfolio.
- Students may not seek PLA credit for:
  - A DeVry University course a student has previously attempted, regardless of the grade or designator assigned to the attempt.
  - A DeVry University course in which the student is currently enrolled.
  - A course which is equivalent to one for which they have already earned credit.
- PLA credit does not waive any prerequisite or corequisite requirements associated with the credited course; prerequisite and corequisite course credits must be earned independently.
- PLA portfolio credit is treated as proficiency credit and does not count toward the residency requirement; the maximum allowable number of PLA credits is determined by the program residency requirement (see *General Graduation Requirements – All Students*).*
- Partial credit will not be awarded for portfolio submissions.
- The maximum number of allowable PLA portfolio submissions for a given course is two.
- PLA fees are non-refundable, paid directly to LearningCounts, and are as follows:
  - Portfolio development course and first portfolio assessment — $254
  - Each additional portfolio assessment — $125
- Students may not use financial assistance to cover the LearningCounts cost associated with PLA portfolio submissions.
- It is the student's responsibility to ensure that they are not enrolled in a course for which they intend to seek PLA credit. If a student pays for such a course, DeVry University will not refund the tuition at a later date.

### Credit for Professional Certifications and Training

As appropriate, DeVry applies proficiency credit for professional certifications and training toward students' program requirements. To determine appropriate application of proficiency credit, DeVry uses guidelines established by the American Council on Education (ACE). The University does not accept courses completed at the vocational level. Certain restrictions apply.

Students may be eligible for proficiency credit if they hold current, specific industry-recognized professional licenses or certificates such as, but not limited to:

- Certain Cisco certifications
- Certain CompTIA certifications
- Microsoft Certified Systems Engineer (MCSE)
- Microsoft Certified IT Professional (MCITP)
- RHIT Certification

Students may also be eligible for proficiency credit if they have successfully completed certain specialized training such as Cisco Networking Academy coursework. Documentation of certifications and licenses must be provided and validated prior to students' transfer credit evaluations. DeVry admissions advisors/representatives, student support advisors and academic advisors are available to assist students in this process.

*Note:  In Oregon, a maximum of 30 semester-credit hours of proficiency credit may be applied toward graduation requirements of any program.*

**Credit by Examination**

Students may earn proficiency credit for a course by successfully completing one of the following:

*DeVry University Challenge Exam:* Students who feel course material has been mastered, either through coursework completed outside DeVry for which transfer credit cannot be given or through self-study, may request a challenge exam for the course, provided they have never been enrolled in the course at DeVry and have not previously attempted the challenge exam. Students should note that challenge exams are not available for all courses.

*External Standardized Exam:* Students may qualify to receive proficiency credit for a course by successfully completing a nationally recognized exam such as:

- Advanced Placement (AP) test
- College Level Examination Program (CLEP) test
- DANTES Subject Standardized Test (DSST)
- International Baccalaureate (IB) exam
- American Health Information Management Association (AHIMA) course or exam

Detailed information on applicability of these external standardized exams to students' programs is available at www.devry.edu/admissions/college-transfer-students.html.

**Prior Learning Credit – Veterans**

Students using veterans benefits are required to submit official transcripts of all prior education and training to DeVry University.

DeVry maintains a written record of previous undergraduate and graduate education completed by veterans and all persons eligible for veterans benefits. A copy of official transcripts used to evaluate transfer credit is maintained in each student's permanent record. This record, required for transfer-credit review, clearly indicates when appropriate transfer credit has been given. A veteran enrolled in a DeVry University course for which credit has already been earned at a University-recognized institution cannot include that course in the total hours reported to the U.S. Department of Veterans Affairs. It is the student's responsibility to be aware of prior credit eligible for transfer.

## Non-GPA Credit

The following appear on students' transcripts but are omitted from GPA calculations:

- English as a Second Language (ESL) courses
- Prerequisite skills courses
- Courses graded on a Satisfactory/Unsatisfactory basis
- Zero-credit-hour courses
- Audited courses

If students are required to take such courses, credit is considered when determining students' academic level and progress.

## Internal Transfers

*Note: Credit transferability may vary based on programmatic accreditation and/or state requirements.*

*Note: Students wishing to transfer from either the Engineering Technology – Computers or the Engineering Technology – Electronics program to the Computer Engineering Technology or Electronics Engineering Technology program should note that such transfers constitute both program and location transfers. Students choosing*

*to make such transfers may be required to complete substantial additional coursework to meet requirements of the new program.*

All students intending to transfer from one program and/or DeVry location to another must:

- Apply for permission to transfer.
- Meet all admission requirements of the intended program and location.
- Meet all graduation requirements for the intended program and location in order to graduate.

**Program Transfers**

A student's first program of study is considered the primary program unless the student submits a program transfer request to the appropriate academic administrator. Students who wish to transfer programs may request to do so at any time; however, they are encouraged to submit a program transfer request as soon as possible. In general, transfers requested by Sunday of the first week of the session are effective that session. Program transfers are not applicable to sessions already completed. Transfers are permitted between sessions and semesters.

Financial aid eligibility for coursework not applicable to the current program may be limited (see *Financial Aid Applicability to Elective and/or Alternate Courses*). Students should contact their student support advisor or student finance consultant for more information.

Program transfers may result in students having to take additional coursework to fulfill graduation requirements of the new program. Students transferring programs may be required to sign an enrollment agreement addendum before beginning classes in the new program and are evaluated for admission and placement under the new program's admission requirements.

*Note: Internal transfers from any DeVry program into the Game & Simulation Programming program are not permitted at any DeVry location.*

**Location Transfers**

Students seeking to transfer from one DeVry location to another must file a request to do so with the transfer coordinator at the current site by Sunday of week four of the session before the intended transfer. Location transfers requested by this deadline are effective that session; changes requested after this deadline become effective the following session. Transfers are permitted between sessions and semesters. All grades and credits earned at any DeVry location carry forward to the new site and are evaluated for applicability at that location.

Students transferring locations must fulfill their financial obligations to the location from which they are transferring before transfers are granted. These students must sign a Request for Home Location Change form before beginning classes at the new location. Students on financial aid probation (academic probation) or disciplinary probation remain on probation after the transfer. Those ineligible to continue at the current location because of academic or financial dismissal, or disciplinary suspension or expulsion, may not transfer.

Students considering a transfer within the DeVry system should be aware that hardware, software and other differences exist among DeVry courses and labs system-wide. Specific transfer requirements are available from transfer coordinators.

### Transfers to Other Educational Institutions

Transfer credit acceptance is at the discretion of the receiving institution.

*Note: DeVry's CARD205, COLL148 and ETHC232 courses are specifically tailored to meet the needs of DeVry students; credits earned in these courses may not transfer in full to other institutions.*

### Registration and Course Scheduling

Registration is the process of enrolling in and paying for a course. Students are encouraged to register online at http://my.devry.edu. They can also contact their student support advisor/academic advisor to complete the registration process.

Students must submit official high school or baccalaureate academic transcripts by the end of their second session of enrollment. Students who do not meet this deadline are dropped from all courses in which they are enrolled for future sessions. Until official transcripts are received, such students may not enroll.

Students enrolling in the Communications Program with Communication Design Management Completion Option should submit official transcripts for all prior college coursework prior to enrolling in their first session at DeVry.

Students whose DeVry University accounts are past due are not permitted to register until their accounts are current or until they have made satisfactory payment arrangements.

Students seeking to add or drop courses from their schedules after a session begins must obtain permission to do so from an academic administrator by Sunday of the first week of the session (see *Withdrawal from a Course*).

### Self-Registration

Self-registration is the process of accessing the student information system and registering for a course or courses and/or dropping a course or courses. Students can self-register via http://my.devry.edu. Students may not drop all courses for the session via self-registration.

Students may access self-registration beginning the first day of registration until one day prior to the session start. Students who need registration assistance should contact a student support advisor or academic advisor.

### Enrollment Status

Enrollment status is determined separately for each semester and is based on all courses in which the student was enrolled during the two sessions comprising the student's semester/student-centric period (SCP). Enrollment status is determined as of the first scheduled class in the student's earliest session (first day of the earliest session for online students). Enrollment status is not affected by the date of application.

Enrollment status is determined as follows:

| Credit Hours Enrolled per Semester/SCP | Enrollment Status |
|---|---|
| 12 or more | Full time |
| 6–11 | Half time |
| Less than 6* | Less than half time |

*\* Students enrolled in courses that do not carry credit hours are also considered enrolled less than half time.*

### Course Loads

Students in good standing may register for as many as 12 semester-credit hours per session. Students may not register for more than the allowed semester-credit hours. Students whose academic histories indicate academic difficulties may be required to take a reduced academic load.

### Repeated Courses

A course can be repeated only two times. In other words, a given course can be taken at most only three times, i.e., the first attempt of the course and two repeats of the same course. A student may repeat a course once without permission. The third attempt must be approved by the appropriate academic administrator; subsequent attempts are not permitted (see *Standards of Academic Progress*). If a course is repeated, the highest grade earned is used for computing the CGPA. Withdrawal from a course being repeated does not affect the CGPA.

Prior to registering for a course previously attempted, students should contact their student support advisor or student finance consultant to determine how their financial assistance may be affected.

### Additional Registration Requirements for International Students

Certain international students may be required to provide a statement of financial support or a sponsor letter indicating that tuition will be paid in advance of each semester and that a sponsor will provide all necessary living expenses for the international student. (Form I-134 may be used.) Most international students cannot receive U.S. federal financial assistance, nor can they work legally in the United States without appropriate permission.

### Attendance

Attendance is directly tied to academic performance; therefore, regular attendance is required. Professors may choose to include class attendance and/or participation as criteria for computing student grades. Thus, students who do not attend class regularly risk earning lower or failing grades. Absenteeism may also result in warning, advising or withdrawal. Students may be withdrawn from DeVry or from individual courses for attendance violations.

Students who never complete an academic event (see *Academic Events*) during the first two weeks of the session are dropped for non-attendance. Students dropped from *all* courses because of non-attendance should note that they are also dropped from courses in which they are enrolled for future sessions. Additionally, students dropped from a course or courses for non-attendance during the first two weeks are precluded from appealing.

Attendance is taken for all eight weeks of the session. Attendance is recorded daily based on each academic event to ensure the last date of attendance is available for the purpose of determining the timeframe of attendance as well as the amounts of earned and unearned financial aid.

For online courses, academic events are tracked for the purpose of determining the last date of attendance.

For blended and onsite courses, each scheduled class meeting is considered an academic event for the purpose of determining the last date of attendance. Courses offered in blended and onsite formats meet for fewer hours or class sessions than courses in a traditional 16-week-semester schedule; therefore, students enrolled in such courses are expected to attend each scheduled class meeting. If a holiday occurs when a class is normally scheduled, it may be necessary for the class to meet on the holiday or to be rescheduled on another day or evening. Professors may include class meetings and online academic events as criteria for determining class attendance and/or participation when computing student grades.

The attendance policy is covered in the student handbook, receipt of which constitutes notification of the policy. Students must adhere to the policy and check for revisions each semester. Students whose expected absence may be in violation of the published limits should contact the Academic Department as soon as possible.

Nonmatriculated students also must adhere to DeVry's attendance policy.

DeVry does not have a leave-of-absence policy for its students.

### Attendance Monitoring
Attendance is monitored as follows:

#### Online Courses
Attendance in online courses is defined as completing an academic event within a seven-consecutive-calendar-day period. Students who do not complete an academic event at least once in any seven-consecutive-calendar-day period are sent, via email, a Pending Attendance Withdrawal Notification, which indicates students must complete an academic event within the next seven consecutive calendar days or they will be withdrawn from the course.

#### Blended Courses
Attendance in blended courses is defined as attending each scheduled class meeting of such courses or participating in an online academic event. Students who do not attend or participate in a blended course at least once in any seven-consecutive-calendar-day period are sent, via email, a Pending Attendance Withdrawal Notification, which indicates students must attend within the next seven consecutive calendar days or they will be withdrawn from the course.

#### Onsite Courses
Attendance in onsite courses is defined as attending each scheduled class meeting of such courses. Students who do not attend an onsite course at least once in any seven-consecutive-calendar-day period are sent, via email, a Pending Attendance Withdrawal Notification, which indicates students must attend within the next seven consecutive calendar days or they will be withdrawn from the course.

### Attendance Appeal
Students in online courses who have been absent for seven consecutive calendar days, and who are unable to complete an academic event within the next seven-consecutive-calendar-day period, may submit an Attendance Withdrawal Appeal form to the professor via the student portal within five calendar days of receipt of their attendance withdrawal notification. Students in online courses whose appeals are approved, but who do not complete an academic event in the appropriate period, are withdrawn from such courses.

Students in blended and onsite courses who have been absent for seven consecutive calendar days, and who are unable to attend within the next seven-consecutive-calendar-day period, may submit an Attendance Withdrawal Appeal form to the professor via the student portal within five calendar days of receipt of their attendance withdrawal notification. Students in blended and onsite courses whose appeals are approved, but who do not return to class in the appropriate period, are withdrawn from such courses.

Students who have no attendance activity in a course during a period of 14 consecutive calendar days are notified of an attendance violation and automatically withdrawn. Students withdrawn from *all* courses because of non-attendance are dropped from courses in which they are enrolled for future sessions.

Students are limited to one appeal for each course during the session.

Students withdrawn after 14 consecutive calendar days of no attendance activity who have extraordinary and documented circumstances may request reinstatement by providing a written request to an appropriate academic administrator.

### End-of-Session Absences
Students with no attendance activity in a course for 14 or more consecutive calendar days immediately prior to the last day of the session are withdrawn from the course. Students who are withdrawn may request a grade change if they wish to receive the grade or designator (i.e., A, B, C, D or S) they earned in the course rather than receiving a W (Withdrawal). Students requesting a grade change must provide supporting documentation and receive approval from both the professor and the appropriate academic administrator.

*Note: Students receiving veterans benefits who receive a grade of F or a designator of U may not request a grade change unless they have documentation substantiating their presence in the class throughout the eight-week session.*

### Academic Events
Academic events are recorded for the purpose of determining attendance status.

For online courses, academic events include, but are not limited to, submission of a class assignment, participation in a threaded discussion, completion of a quiz or exam, completion of a tutorial or participation in computer-assisted instruction.

For blended and onsite courses, class attendance is tracked as an academic event.

### Make-Up Work
A student is responsible for all work missed during an approved absence and must contact the professor for make-up work.

### Missed Exams
Students are expected to take quizzes and exams at regularly scheduled times. When this is not possible because of circumstances beyond their control, such as documented illness or work-related travel, students may arrange to take a make-up quiz or exam by contacting their professor.

Final exams must be taken during week eight of the session. For all other types of exams and quizzes, the professor and student agree upon an appropriate day and time to make-up the missed exam or quiz.

### Withdrawal from a Course
Students may withdraw from a course by making a formal request. Withdrawal requests must be communicated to a student support advisor or academic advisor, or to an appropriate academic administrator, verbally, by email or by submitting a request through the interactive student communication system. Students who inquire about a withdrawal are contacted to confirm their intention to withdraw. Students inquiring about withdrawing who cannot be reached, or who do not respond, regarding their inquiry are withdrawn from their course if they have not attended the course in accordance with DeVry's attendance policy (see *Attendance*). In addition, withdrawal requests for students who attend a blended or onsite course, or who participate in an online course, after submitting and/or confirming a withdrawal request are considered to have revoked their withdrawal request.

Students withdrawn from *all* courses because of non-attendance are dropped from courses in which they are enrolled for future sessions.

The withdrawal deadline is 11:59 pm MT on Friday of week seven. Withdrawal is not allowed after this time.

## Military Withdrawal

Active Duty, Reserve and National Guard students deployed or participating in required training for more than 14 consecutive days are granted special consideration.

The student or designated officer in the student's chain of command must notify the student's student academic support advisor/academic advisor or registrar of a deployment situation that would require special consideration. For additional information see the DeVry Education Group Deployment policy at http://www.devry.edu/d/military-deployment-policy.pdf.

## Interruption of Study/Withdrawal

Students who must interrupt studies during a semester or who defer starting the next semester must follow the University's official withdrawal procedure, which includes completing loan exit counseling. Failure to complete loan exit counseling may result in a hold on students' records (see *Loan Exit Counseling*). Students who cannot complete required procedures in person should contact an academic administrator as soon as possible.

## Resumption of Study

Students who resume after an interruption of studies should note that course availability may vary by session. Because program requirements may change periodically, an academic administrator will assess resuming students' academic records to determine whether an alternate plan of study is required. Alternate plans may result in additional coursework requirements and tuition obligations.

Resuming students who have missed at least six consecutive sessions must request readmission through standard admission procedures.

Students previously pursuing a DeVry associate degree who wish to resume and pursue a bachelor's degree must submit a new application and are evaluated for admission and placement under the desired program's admission requirements. Students with an outstanding balance on their DeVry student account are not permitted to resume.

## Academic Honors

An eligible matriculated student achieving an SGPA of 3.50 or higher is named to the Dean's List, provided the student's SGPA calculation includes at least six credit hours of completed coursework. However, a grade of D, F or I, a designator of U, or financial aid warning (academic warning) or financial aid probation (academic probation) status in any semester makes a student ineligible for honors in that semester. Dean's List eligibility is determined at the end of each student's semester/student-centric period.

An honors graduate from a baccalaureate program is eligible for one of the following recognitions:

| Title | CGPA |
|---|---|
| Cum Laude | 3.50–3.69 |
| Magna Cum Laude | 3.70–3.89 |
| Summa Cum Laude | 3.90–4.00 |

A graduate from a nonbaccalaureate program who has a CGPA of at least 3.50 graduates "with Honors."

## Standards of Academic Progress

Students must demonstrate satisfactory academic progress toward completing their academic programs by meeting DeVry's established standards of academic progress in each of five specific measurable areas:

- Grade point averages
- Successful completion of transitional studies and English as a Second Language (ESL) coursework
- Course repeats
- Maximum coursework allowed
- Pace of progress toward graduation, including withdrawal from all courses

Grade point averages and pace calculations used to determine academic standing are based on all courses the student completes as a DeVry undergraduate. The calculation for maximum coursework allowed is based on the required credit hours of the student's primary program. All areas of academic progress are evaluated at the end of each student's semester/student-centric period, and academic standing is assigned according to the evaluation. A summary of academic progress standards follows. Students should consult their student support advisor or academic advisor for policy details.

### Requirements for Students Starting the Semester in Good Standing

New students, and all other students who start the semester in good standing, are subject to requirements noted below.

***Grade Point Averages:*** To remain in good academic standing, a student must maintain a CGPA of 2.00 or higher. If at the end of the semester the CGPA is below 2.00, the student is placed on financial aid warning (academic warning).

***Successful Completion of Transitional Studies and ESL Coursework:*** To remain in good academic standing, a student must successfully complete all transitional studies and ESL coursework attempted. A student who attempts a transitional studies or ESL course and does not pass the course at some time during the semester is placed on financial aid warning (academic warning). A student who attempts the same transitional studies or ESL course twice in one semester and does not pass the course is dismissed.

***Course Repeats:*** To remain in good academic standing, a student must successfully complete all courses by the second attempt. A student who attempts a course a second time and at the end of the semester does not pass the course is placed on financial aid warning (academic warning). A student who attempts a course a third time and at the end of the semester does not pass the course is dismissed.

***Maximum Coursework Allowed:*** To remain in good academic standing, a student may attempt no more than 1.5 times the number of credit hours in the current program. A student who exceeds this maximum and has not graduated is dismissed.

***Pace of Progress Toward Graduation, Including Withdrawal from All Courses:*** To remain in good academic standing, a student must earn credit toward graduation at a pace (rate of progress) that ensures successful program completion within the maximum coursework allowance. The pace of progress is the ratio of credit hours passed to credit hours attempted. Pace is measured using a specific percentage established for incremental ranges of attempted credit hours. In addition, at least one course must be completed during the semester. A student must ultimately pass at least 67 percent of attempted credit hours. A student who fails to maintain the minimum pace and has not graduated is placed on financial aid warning (academic warning). In addition, if the student withdraws from all courses during the semester, the student is placed on financial aid warning (academic warning).

Students starting the semester in good standing who do not meet all requirements are placed on financial aid warning (academic warning) or dismissed, as noted above. Students placed on financial aid warning (academic warning) may continue their studies for one semester without an appeal. However, these students should immediately seek academic advising and review all academic requirements carefully.

Students dismissed for failing to meet standards of academic progress may submit an academic appeal and may not continue their studies unless the appeal is approved (see *Academic Appeal*). Students with approved appeals are placed on financial aid probation (academic probation) and must follow a predetermined academic plan.

**Requirements for Students Starting the Semester on Financial Aid Warning (Academic Warning) or Financial Aid Probation (Academic Probation)**
Students who start the semester on financial aid warning (academic warning) or financial aid probation (academic probation) are subject to the general requirements noted below.

*Students on Financial Aid Warning (Academic Warning):* At the end of a financial aid warning (academic warning) semester, the student a) returns to good standing or b) is dismissed.

a) At the end of a financial aid warning (academic warning) semester, the student returns to good standing if *all* of the following occurred:
- The student's CGPA was at least 2.00 or the student had never completed a GPA course.
- The student passed all transitional studies and ESL courses attempted during the semester.
- The student passed all courses attempted a second or subsequent time.
- The student did not exceed the maximum coursework allowance.
- The student met pace of progress standards, including completion of at least one course during the semester.

b) A student who does not return to good standing is dismissed.

*Students on Financial Aid Probation (Academic Probation):* At the end of a probationary semester, the student a) returns to good standing, b) remains on financial aid probation (academic probation) for one additional semester according to the predetermined academic plan or c) is dismissed.

a) At the end of a probationary semester, the student returns to good standing if *all* of the following occurred:
- The student's CGPA was at least 2.00 or the student had never completed a GPA course.
- The student passed all transitional studies and ESL courses attempted during the semester.
- The student passed all courses attempted a second or subsequent time.
- The student did not exceed the maximum coursework allowance.
- The student met pace of progress standards, including completion of at least one course during the semester.

b) At the end of the probationary semester, a student who does not return to good standing remains on financial aid probation (academic probation) for one additional semester according to the predetermined academic plan if *all* of the following occurred during the semester:

- The student's CGPA was at least 2.00 or the student had never completed a GPA course; or the CGPA was less than 2.00 and the SGPA was at least 2.50.
- The student passed all courses attempted.
- The student did not exceed the maximum coursework allowance; or the student exceeded the maximum coursework allowance, and the semester pace was at least 67 percent.
- The student maintained the required pace of progress; or the student did not maintain the required pace of progress, and the semester pace was at least 67 percent.
- The student completed at least one course.

At the end of the additional probationary semester, the student returns to good standing if *all* of the following occurred:
- The student's CGPA was at least 2.00 or the student had never completed a GPA course.
- The student passed all transitional studies and ESL courses attempted during the semester.
- The student passed all courses attempted a second or subsequent time.
- The student did not exceed the maximum coursework allowance.
- The student met pace of progress standards, including completion of at least one course during the semester.

   Otherwise, the student is dismissed.

c) A student who does not meet requirements for returning to good standing, or for continuing for an additional semester on financial aid probation (academic probation), is dismissed.

**Academic Appeal**
Students who have been dismissed for failing to meet standards of academic progress may appeal the dismissal by submitting an Academic Dismissal Appeal form to the appropriate academic administrator prior to the established deadline. A student who is dismissed for failure to pass the third attempt of a course may not appeal to request a fourth or subsequent course attempt. Students should consult the student handbook for more information. Students may appeal their academic standing a total of four times in their current program. Those with approval to change programs have their total number of appeals reset to zero.

Appeals must explain the verifiable mitigating circumstances that contributed to poor academic performance, show how the circumstances have been overcome, provide required documentation and present a realistic plan for meeting requirements to return to good standing. Appeals without supporting documentation are denied.

A student informed of the dismissal after beginning the session immediately following the dismissal may remain enrolled while the appeal is processed by the appropriate academic administrator. A student continuing in a course or courses while the appeal is processed and whose appeal is subsequently denied may not continue and is administratively dropped from class or classes. A student not currently enrolled whose appeal is approved may enroll for the current semester, provided the registration deadline has not passed, and is subject to financial aid probation (academic probation) conditions in *Requirements for Students Starting the Semester on Financial Aid Warning (Academic Warning) or Financial Aid Probation (Academic Probation)*. Failure to meet specified conditions results in a second dismissal. Additional appeals are denied unless students have new verifiable mitigating circumstances. Fourth appeals must be submitted to a national college dean or designee. Students who fail to return to good standing after submitting a fourth appeal are dismissed and precluded from registering; however, they may reapply for admission after one year.

If an appeal is not submitted within six sessions after dismissal, the student must request readmission through standard admission procedures as well as submit an appeal to the appropriate academic administrator.

Academic administrators' and national college deans'/designees' decisions to deny appeals are final and cannot be appealed.

**Academic Program Transfer During Financial Aid Warning (Academic Warning)/Financial Aid Probation (Academic Probation)/Dismissal**
Students transferring to a different academic program maintain their current academic standing.

A student on financial aid warning (academic warning) or financial aid probation (academic probation) who transfers to a different academic program enters the new program and continues under this status.

A student who has been dismissed and wishes to enroll in another academic program must appeal to the academic administrator of the intended program. If the appeal is approved, the student must meet financial aid probation (academic probation) conditions in *Requirements for Students Starting the Semester on Financial Aid Warning (Academic Warning) or Financial Aid Probation (Academic Probation)*.

Academic standing for a student who transferred to a different academic program but then returns to the original academic program is based on performance in all enrolled semesters and on all DeVry coursework at the undergraduate level.

### Additional Standards of Academic Progress Information for Students Receiving Veterans Education Benefits
DeVry notifies the Department of Veterans Affairs (VA) of those students who are receiving veterans education benefits and whose status is academic warning, which is considered the first probationary period.

Students are placed on academic warning for failure to meet minimum CGPA, pace of progress toward graduation and other minimum requirements outlined in *Standards of Academic Progress*. Students on academic warning are eligible to receive veterans education benefits for their academic warning semester. If at the end of the academic warning semester such students do not return to good standing, they are dismissed. Students who are dismissed may appeal. Those with approved appeals may continue on probation for another semester and remain eligible for veterans education benefits. Students who do not successfully appeal their dismissals are dismissed and have their veterans benefits terminated for unsatisfactory progress. The VA is notified of such dismissals.

After the second probationary period, veterans education benefits are terminated for students who fail to meet the minimum CGPA required for graduation, pace requirements and other DeVry standards noted in *Standards of Academic Progress*. These students may continue enrollment without VA benefits for another semester if satisfactory incremental progress is made. Veterans education benefits may resume if students meet the minimum CGPA required for graduation and pace requirements, as well as return to good academic standing, at the end of the third probationary semester.

Veteran students must notify the chief location administrator/academic advisor immediately upon withdrawal from school or from a course. For students receiving veterans education benefits, DeVry notifies the VA of changes in student status within 30 days of the official last date of attendance.

### Pursuit of Specializations
Students must declare a specialization according to the timeframe indicated for the chosen program. Students who wish to change or add a specialization may request to do so at any time; however, they are encouraged to submit a request for such as soon as possible. In general, requests received by Sunday of the first week of the session are effective that session. Specialization changes/additions are not applicable to sessions already completed. Students who wish to pursue more than one specialization must receive approval to do so from the appropriate academic administrator. No more than three specializations may be completed within one degree program. Certain limitations may apply. All declared specializations must be completed prior to degree conferral.

Prior to graduation, students with declared specializations who subsequently wish to complete their degree program without fulfilling requirements for all declared specializations must request removal, from their student records, of the specialization(s) they no longer wish to pursue.

### Pursuit of a Second Degree
Students are awarded their degrees at the end of the session in which they satisfactorily met all graduation requirements. Those who wish to pursue a second DeVry degree may do so upon conferral of their first degree; however, they must contact an appropriate academic administrator to determine an approved course of study that meets the combined requirements of both degrees.

In addition, if both degrees are at the baccalaureate level, the course of study must contain at least 30 semester-credit hours beyond the length of the longer of the two programs. If both degrees are at the associate level, the course of study must contain at least 20 semester-credit hours beyond the length of the longer of the two programs.

### General Graduation Requirements – All Students
To graduate, a student must:

- Earn at least 25 percent of the programs' required credit hours or a minimum of 30 semester-credit hours, whichever is greater, through coursework completed at DeVry. Higher program-specific requirements may be imposed for internal or external transfer students.
- Achieve a CGPA of at least 2.00.
- Satisfactorily complete all curriculum requirements.

Graduation is not permitted if the student has missing grades or if the best recorded grade for a required course is F, or the designator I, U or W. Transfer and proficiency credit fulfill graduation requirements. Grade changes are not permitted after the award has been granted. Certain exceptions apply and are noted in the student handbook.

Awards are conferred six times per year, at the end of each session. Students are granted their awards at the end of the session in which they satisfactorily met all graduation requirements.

Students must have all graduation requirements fulfilled by Tuesday of week two of the session immediately following the session in which they completed their final course requirements. The deadline for meeting certain requirements may be earlier. Requirements include – but are not limited to – ensuring that transcripts for transfer credit have been received by the University and resolving Incompletes and other outstanding grade issues. Students who fail to meet the graduation requirements deadline are granted their awards in the session in which any outstanding requirements are met.

Graduation candidates must fulfill all financial obligations to DeVry at least 30 days before commencement and complete loan exit counseling. Failure to complete loan exit counseling may result in a hold on students' records (see *Loan Exit Counseling*).

In addition, the state of Nevada requires students to meet its requirement for study of the State of Nevada and U.S. constitution. Students should see their academic administrator for details on options for meeting this graduation requirement.

### University Expulsion or DeVry Suspension

Students who have been sanctioned with University expulsion as a result of a Code of Conduct violation are not eligible to graduate thereafter from DeVry University. A student may be sanctioned with DeVry suspension for a definite period of time after which the student is eligible to graduate once all graduation requirements have been fulfilled.

### Additional Graduation Requirement for Clinical Laboratory Science Program Students

In addition to fulfilling requirements outlined in *General Graduation Requirements – All Students*, Clinical Laboratory Science program students must earn a grade of C or higher in each required course with the CLS designator after no more than two attempts of such courses.

Students who attempt the same CLS course twice without earning a grade of C or higher are dismissed. Students who wish to continue must submit an academic appeal to the appropriate academic administrator (see *Academic Appeal*).

### Diplomas and Transcripts

Diplomas are mailed after all graduation requirements have been met. Students should note that the degree or certificate awarded is indicated on diplomas and transcripts; however, specializations are indicated on transcripts only.

### Commencement Ceremonies

Graduation ceremonies are generally held at the end of the spring and fall semesters. Dates vary by location. Students may be eligible to participate in a ceremony if they are completing their final program requirements during the same semester in which graduation is held.

Separate graduation ceremonies are not held for online students; however, such students may attend a University commencement ceremony held anywhere in the country.

More information about commencement ceremonies is available from a student support advisor/academic advisor.

*Note: To officially graduate from DeVry University, students must satisfy all academic requirements for their specific program. Participation in a commencement ceremony is not a guarantee or indication of program completion.*

# Tuition & Expenses

## Tuition

Tuition rates shown in the *tuition charts* are applicable to students enrolling through the May 2016 session. Through the University's Fixed Tuition Promise, tuition rates shown will remain effective through graduation for all matriculating students missing no more than five consecutive sessions of enrollment. Students readmitted to the University after missing six or more consecutive sessions of enrollment reenroll under prevailing tuition policies at the time they are readmitted.

A $30 application fee must accompany the application. Tuition, as well as fees and expenses payable to DeVry, must be paid in advance of each term unless a student will be using one of DeVry's payment options (see *Payment Options*). Payment may be made by check, credit card or third-party financing (including financial aid).

For tuition and refund purposes, the term of attendance is defined as the actual number of complete or partial sessions a student has attended DeVry. Thus, the initial term of attendance, regardless of program or course level, is considered the first term. Students returning to DeVry after having missed six or more session registrations must reapply and sign a new enrollment agreement. A second application fee is not required.

DeVry reserves the right to change tuition rates at any time; any increase will be announced at least 90 days before the beginning of the effective term. However, the University's Fixed Tuition Promise allows eligible students to be unaffected by future tuition increases. Oregon and Tennessee tuition will not be increased more than once in an academic year.

Tuition charges are calculated each session per credit hours enrolled. Within each session, matriculating students in all programs except Medical Billing & Coding are charged $609 per credit hour. Matriculating students in the Medical Billing & Coding program are charged $450 per credit hour for all hours enrolled. All nonmatriculating students are charged $609 per credit hour.

Tuition for all coursework is assessed according to the student's primary program of enrollment. A student's first program of study is considered the primary program unless the student requests a program change.

*Note: Students are limited to participation in one DeVry-based scholarship, grant or group pricing program only. If students qualify for more than one such program, the one most beneficial is awarded. Students who qualify for and prefer a different scholarship, grant or group pricing program must provide written confirmation, prior to starting classes at DeVry, of the alternate program in which they wish to participate. In the rare case when scholarship, grant or group tuition pricing programs are combinable, students are made aware of this opportunity by their admissions advisor, student support advisor or student finance consultant.*

## Military Tuition

U.S. military personnel serving in any of the five branches of the U.S. Armed Forces (including National Guard and Reserves), and their spouses, are eligible for DeVry's military pricing of $250 per credit hour.

The application fee is waived for these individuals. Textbooks, course materials and other fees are charged at the standard rate. Additional information and requirements are available from DeVry admissions advisors/representatives.

## Alumni Tuition

Alumni who hold a DeVry University bachelor's and/or master's degree may take advantage of the opportunity to enroll as non-matriculating students in as many as 24 semester-credit hours of undergraduate coursework on a space-available basis for a group tuition rate of $518 per credit hour, regardless of course load. Students must submit a Tuition Reduction form prior to Sunday of week four of the session in order for the alumni tuition rate to be applied to the current session. If the form is submitted after this deadline, the alumni tuition rate becomes effective the following session. This benefit does not apply to graduate coursework.

The application fee is waived for these individuals. Textbooks, course materials and other fees are charged at the standard rate. Additional information and requirements are available from DeVry admissions advisors.

*Note: Alumni who hold a DeVry University undergraduate certificate are not eligible for this benefit.*

## Tuition Deposit for F-1 Applicants

A refundable tuition deposit equivalent to the cost for 12 credit hours charged at the current standard tuition rate is required from initial F-1 applicants prior to entering their first semester with DeVry. The tuition deposit is due after applicant's F-1 visa has been approved by the U.S. Consulate or Embassy abroad and prior to the applicant's entry into the United States. The tuition deposit will be applied to tuition charged for the student's first semester. The tuition deposit will be refunded if the applicant subsequently cancels enrollment.

## Expenses

*Note: DeVry reserves the right to change fees and charges at any time without notice. DeVry receives administrative and service fees from the supplier of graduation regalia and uses these fees to cover student activities costs, including graduation expenses. DeVry also receives administrative and service fees from textbook suppliers and bookstore operations and uses these fees to cover expenses associated with selecting and ordering textbooks and e-learning materials.*

*Note: The Fixed Tuition Promise is applicable to tuition only. University-related fees and expenses are not covered by the Fixed Tuition Promise.*

### Challenge Exam

A charge of $5 per credit hour is assessed for challenge exams.

### Cisco Placement Exam

Students who wish to enroll in specialized Cisco networking courses, and who have completed either NETW202 at DeVry University or an equivalent course at another recognized institution, may request to complete a placement examination to determine if they meet requirements to enroll in such courses. A $60 charge is assessed for the exam. Contact the appropriate academic administrator for more information.

**Clinical Documentation Requirements for Clinical Laboratory Science Program Students**
Students are charged fees, not to exceed $200, for obtaining documentation required prior to entering the clinical portion of the CLS program, including a criminal background check, fingerprint card and drug screen.

**CPR Training**
Neurodiagnostic Technology program students must be trained in CPR prior to graduation. Students who are not able to produce proof of CPR training must complete such training, the fee for which typically ranges from $75 to $100 and is paid directly to the training organization.

**Criminal Background Check**
Candidates for admission to the clinical portion of the Neurodiagnostic Technology program must undergo a criminal background check. The fee for this background check, a minimum of $43, is paid to DeVry.

**Illegal Substance Screen**
Candidates for admission to the clinical portion of the Neurodiagnostic Technology program must be tested for illegal substance use. The screening fee, approximately $40, is paid to DeVry.

**Late Preregistration**
Continuing students are subject to a $25 late preregistration fee if they do not settle financial arrangements during the preregistration period prior to the new term.

**Nonsufficient Funds Check**
A fee not to exceed $10 is charged for each check returned for any reason.

**Official Transcript Request**
An electronic, final transcript is automatically sent to students at no charge upon graduation. Students and alumni are charged $5 for each electronic transcript and $7 for each paper transcript. Students must submit requests for official transcripts via the student portal. Official transcripts are not issued until all financial obligations to any DeVry institution are fulfilled.

**Parking**
To park in the University's parking lots at some DeVry locations, students may be charged a nonrefundable fee not to exceed $60 per vehicle, per session. See the Student Services Office for details. Vehicles not authorized for parking may be towed.

**Student Services**
A nonrefundable charge of $20 per session is assessed to cover expenses such as those associated with library enhancements; computer hardware and software upgrades; use of, and enhancements to, labs, printers and email services; student activities and services; and graduation.

**Textbooks, Supplies and Specialized Equipment**
Costs for textbooks and supplies vary by program. The average estimated per-session expense for full-time students is:

| Program(s) | Per-Session Expense |
|---|---|
| All programs except Computer Engineering Technology, Electronics & Computer Technology, Electronics Engineering Technology, Engineering Technology – Computers, Engineering Technology – Electronics, Health Information Technology, Medical Billing & Coding | $190 |
| Health Information Technology, Medical Billing & Coding | $240 |
| Computer Engineering Technology, Electronics and Computer Technology, Electronics Engineering Technology | $305 |
| Engineering Technology – Computers | $350 |
| Engineering Technology – Electronics | $390 |

Costs are subject to change based on publishers' prices. Textbooks may be purchased through DeVry's online bookstore or from an outside source, but they must be those specified by DeVry.

Most courses require electronic course materials, which may include tutorials, simulations, study guides, electronic versions of textbooks and other interactive study material. Students enrolled in these courses are charged a maximum of $85 per course for the electronic materials. Average estimated per-session costs noted above include this electronic course materials charge.

DeVry refunds a portion of electronic course material charges for all course withdrawals. During the add/drop period, week one, electronic course material charges are adjusted according to the drop policy. During weeks two through eight, electronic course material charges are refunded as follows:

| Course Material Charge | Refund During Weeks 2–8 |
|---|---|
| $60–$85 | $50 |
| $50–$59.99 | $40 |
| ≤ $49.99 | $30 |

If electronic versions of textbooks are included, hard-copy textbooks are not required for these courses but may be purchased for an additional cost.

For students who want printed textbooks as well as eBooks, black and white, soft-cover printed versions of certain course eBooks are available for $10 each. These optional print-on-demand books are identical to course eBooks. More information is available in the student handbook.

Technology and software supplies must be those specified by DeVry.

**Online Course Equipment**
Most online courses with an ECT, ECET or REET designator (and certain alternate courses) include an $80-per-course equipment charge for the following:

- Analog/digital trainer
- Oscilloscope

Average per-session costs for ECT, ET–C and ET–E program text-books and supplies noted above include this equipment charge.

Costs are subject to change based on publishers'/suppliers' prices. Applicable taxes and shipping fees apply.

DeVry has limited spare equipment available for student use but does not guarantee that spare equipment will be available.

Students may use the equipment only while enrolled, and actively participating, in at least one course with the ECT, ECET or REET designator, or in related courses; however, DeVry retains ownership of equipment at all times. Students must use equipment in accordance with its instructions; may not abuse, neglect or allow others to use it; and must ensure that equipment is not lost, stolen or damaged. If, however, equipment is lost, stolen or damaged, students must notify DeVry, and DeVry will charge students up to the full cost of replacement. If equipment is recovered unharmed and returned to DeVry within 30 days after the loss or theft, DeVry will credit or refund any amounts paid for replacement equipment.

DeVry may allow students to retain equipment after successful completion of all program requirements. Students who suspend or discontinue enrollment in their program of study will be required, at DeVry's option, to either return the equipment to DeVry within

seven calendar days at their own expense or to pay DeVry the full cost of the equipment. Students authorize DeVry to charge any amount payable for equipment to their DeVry account.

Further information is available from DeVry's student services advisors.

**Transfer Fee for F-1 Students**
Beginning from the time of issuance of the Form I-20, F-1 students seeking to transfer from DeVry to another post-secondary institution are charged a $250 administrative fee. DeVry is responsible for overseeing the Student and Exchange Visitor Information System (SEVIS) record of certain students, which must be transferred when changing schools. The administrative fee applies only to those students seeking an external transfer. Students seeking an internal location transfer at DeVry are not subject to this fee.

**Uniform**
Candidates for admission to the clinical portion of the Neurodiagnostic Technology program must purchase a prescribed uniform (scrubs) to be worn during clinical rotations. The fee, approximately $20 per set, is paid directly to the uniform provider.

## Failure to Fulfill Financial Obligations
Enrollment for a subsequent term may be denied to students who fail to fulfill their financial obligations. In addition, official transcripts are not released to students with outstanding balances on their student accounts at any DeVry institution. Students may be dismissed for failing to pay tuition, student plan housing fees, federal student loans or other charges. Career services assistance may also be withheld. In all cases, students remain responsible for tuition and other charges incurred, in accordance with *DeVry's cancellation and refund policy*.

## Tuition, Fees and Expenses: All Matriculating Students, Except Onsite Students in New Jersey

Within each session, matriculating students in all programs except Medical Billing & Coding are charged $609 per credit hour. Matriculating students in the Medical Billing & Coding program are charged $450 per credit hour for all hours enrolled. All nonmatriculating students are charged $609 per credit hour. Tuition rates shown will remain effective through graduation for all matriculating students missing no more than five consecutive sessions of enrollment. Students readmitted to the University after missing six or more consecutive sessions of enrollment reenroll under prevailing tuition policies at the time they are readmitted. Tuition rates shown are also applicable to new matriculating students enrolling through the May 2016 session.

| Program Name[1] (A–E) | Accounting, associate degree | Accounting, bachelor's degree | Biomedical Engineering Technology | Business Administration | Clinical Laboratory Science | Communications | Computer Engineering Technology | Computer Information Systems | Electronics & Computer Technology | Electronics Engineering Technology | Engineering Technology – Computers |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Credit Hours | 65 | 124 | 139 | 124 | 130 | 122 | 139 | 124 | 71 | 139 | 139 |
| Tuition Per Credit Hour | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 |
| Total Tuition | $39,585 | $75,516 | $84,651 | $75,516 | $79,170 | $74,298 | $84,651 | $75,516 | $43,239 | $84,651 | $84,651 |
| Student Services Charge[2] | $160 | $320 | $360 | $320 | $360 | $320 | $360 | $320 | $200 | $360 | $360 |
| Textbook and Equipment Expense[3] | $1,520 | $3,040 | $3,420 | $3,040 | $3,420 | $3,040 | $5,490 | $3,040 | $3,050 | $5,490 | $6,300 |
| Total Program Cost[4] | $41,295 | $78,906 | $88,461 | $78,906 | $82,980 | $77,688 | $90,531 | $78,906 | $46,519 | $90,531 | $91,341 |

[1] program availability varies by location and delivery method; tuition and expenses (except for application fee) for Canadian residents enrolled in U.S.-based online programs charged in Canadian dollars at same price listed; application fee for all students charged in U.S. dollars

[2] charged at $20 per session; charge is nonrefundable

[3] average estimated per-session expense for full-time students in all programs (except CET, ECT, EET, ET-C, ET-E, HIT and MBC) is $190; average estimated per-session expense for full-time HIT and MBC students is $240; average estimated per-session expense for full-time CET, ECT and EET students is $305; average estimated per-session expense for full time ET-C students is $350; average estimated per-session expense for full-time ET-E students is $390; ranges listed for ECT, ET-C and ET-E students include $80 per-course equipment charge for ECET, ECT and REET courses

[4] for matriculating students at current tuition rates; total tuition cost shown exemplifies program cost when calculated at credit hours shown and assuming attendance of eight credit hours per session for all but final session; students' tuition expenses will vary based on credit hours taken per session; includes $30 application fee, nonrefundable student services charge, and average estimated textbook and equipment expense

[5] in Health Information Technology program, three required courses totaling eight credit-hours, HIT230, HIT272 and HIT272L, are provided at no tuition charge

[6] in the Medical Billing & Coding program, one required three-credit-hour course, HIT230, is provided at no tuition charge

## Tuition, Fees and Expenses: All Matriculating Students, Except Onsite Students in New Jersey

Within each session, matriculating students in all programs except Medical Billing & Coding are charged $609 per credit hour. Matriculating students in the Medical Billing & Coding program are charged $450 per credit hour for all hours enrolled. All nonmatriculating students are charged $609 per credit hour. Tuition rates shown will remain effective through graduation for all matriculating students missing no more than five consecutive sessions of enrollment. Students readmitted to the University after missing six or more consecutive sessions of enrollment reenroll under prevailing tuition policies at the time they are readmitted. Tuition rates shown are also applicable to new matriculating students enrolling through the May 2016 session.

| Program Name[1] (E–W) | Engineering Technology – Electronics | Game & Simulation Programming | Health Information Technology | Healthcare Administration | Justice Administration | Management | Medical Billing & Coding, certificate | Multimedia Design & Development | Network & Communications Management | Network Systems Administration | Technical Management | Web Graphic Design |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Credit Hours | 139 | 127 | 67 | 126 | 122 | 122 | 34 | 122 | 124 | 67 | 122 | 67 |
| Tuition Per Credit Hour | $609 | $609 | $609 | $609 | $609 | $609 | $450 | $609 | $609 | $609 | $609 | $609 |
| Total Tuition | $84,651 | $77,343 | $35,931[5] | $76,734 | $74,298 | $74,298 | $13,950[6] | $74,298 | $75,516 | $40,803 | $74,298 | $40,803 |
| Student Services Charge[2] | $360 | $320 | $160 | $320 | $320 | $320 | $80 | $320 | $320 | $200 | $320 | $200 |
| Textbook and Equipment Expense[3] | $7,020 | $3,040 | $1,920 | $3,040 | $3,040 | $3,040 | $960 | $3,040 | $3,040 | $1,900 | $3,040 | $1,900 |
| Total Program Cost[4] | $92,061 | $80,733 | $38,041 | $80,124 | $77,688 | $77,688 | $15,020 | $77,688 | $78,906 | $42,933 | $77,688 | $42,933 |

[1] program availability varies by location and delivery method; tuition and expenses (except for application fee) for Canadian residents enrolled in U.S.-based online programs charged in Canadian dollars at same price listed; application fee for all students charged in U.S. dollars

[2] charged at $20 per session; charge is nonrefundable

[3] average estimated per-session expense for full-time students in all programs (except CET, ECT, EET, ET-C, ET-E, HIT and MBC) is $190; average estimated per-session expense for full-time HIT and MBC students is $240; average estimated per-session expense for full-time CET, ECT and EET students is $305; average estimated per-session expense for full time ET-C students is $350; average estimated per-session expense for full-time ET-E students is $390; ranges listed for ECT, ET-C and ET-E students include $80 per-course equipment charge for ECET, ECT and REET courses

[4] for matriculating students at current tuition rates; total tuition cost shown exemplifies program cost when calculated at credit hours shown and assuming attendance of eight credit hours per session for all but final session; students' tuition expenses will vary based on credit hours taken per session; includes $30 application fee, nonrefundable student services charge, and average estimated textbook and equipment expense

[5] in Health Information Technology program, three required courses totaling eight credit-hours, HIT230, HIT272 and HIT272L, are provided at no tuition charge

[6] in the Medical Billing & Coding program, one required three-credit-hour course, HIT230, is provided at no tuition charge

## Tuition, Fees and Expenses: All Matriculating Onsite Students in New Jersey

Within each session, matriculating students are charged $609 per credit hour. Nonmatriculating students are charged $609 per credit hour. Tuition rates shown will remain effective through graduation for all matriculating students missing no more than five consecutive sessions of enrollment. Students readmitted to the University after missing six or more consecutive sessions of enrollment reenroll under prevailing tuition policies at the time they are readmitted. Tuition rates shown are also applicable to new matriculating students enrolling through the May 2016 session.

| Program[1] | Biomedical Engineering Technology | Business Administration | Computer Information Systems | Electronics & Computer Technology | Electronics Engineering Technology | Multimedia Design & Development | Network & Communications Management | Network Systems Administration | Neurodiagnostic Technology | Technical Management | Web Graphic Design |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Credit Hours[2] | 138 | 133 | 130 | 71 | 138 | 127 | 133 | 70 | 70 | 127 | 67 |
| Tuition Per Credit Hour | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 | $609 |
| Total Tuition | $84,042 | $80,997 | $79,170 | $43,239 | $84,042 | $77,343 | $80,997 | $42,630 | $42,630 | $77,343 | $40,803 |
| Student Services Charge[3] | $360 | $320 | $320 | $200 | $360 | $320 | $320 | $200 | $200 | $320 | $200 |
| Textbook and Equipment Expense[4] | $3,420 | $3,040 | $3,040 | $3,050 | $5,490 | $3,040 | $3,040 | $1,900 | $1,900 | $3,040 | $1,900 |
| Total Program Cost[5] | $87,852 | $84,387 | $82,560 | $46,519 | $89,922 | $80,733 | $84,387 | $44,760 | $44,760 | $80,733 | $42,933 |

[1] Program availability varies by location.

[2] includes credit hours required in Personal and Professional Development courses, which are awarded institutional credit only

[3] charged at $20 per session; charge is nonrefundable

[4] average estimated per-session expense for full-time students in all programs (except ECT and EET) is $190; average estimated per-session expense for full-time ECT and EET students is $305

[5] for matriculating students at current tuition rates; total tuition cost shown exemplifies program cost when calculated at credit hours shown and assuming attendance of eight credit hours per session for all but final session; students' tuition expenses will vary based on credit hours taken per session; includes $30 application fee, nonrefundable student services charge, and average estimated textbook and equipment expense

# Financial **Assistance**

DeVry University helps students develop plans for financing their education through a combination of financial assistance programs (if eligible), family contributions, employer tuition reimbursement (when available) and DeVry's payment options (see *Payment Options*).

The first step in qualifying for these programs is completing the Free Application for Federal Student Aid (FAFSA), which serves as an application for all federal – and most state – student aid programs. The FAFSA can be completed electronically by going to http://fafsa.ed.gov and should be completed as early as possible each year. Prompt completion assures consideration for maximum available financial aid.

FAFSA information is used to determine the expected family contribution (EFC), and eligibility for federal and state financial aid. Financial aid eligibility is calculated by subtracting the EFC from the total estimated educational expenses.

Assistance packages are developed using information from the FAFSA and any supplemental documents. Contributions from student and family income and assets are the foundation for all assistance packages. DeVry provides students with award letters indicating the amount of financial aid for which they may be eligible, sources from which the aid may be received as well as approval of their DeVry University payment plan option.

The timing of financial aid disbursements is dependent on specific program requirements. The following requirements must be met in order for awards to be disbursed:

- All paperwork required to process awards – including promissory notes, and verification and residency documents – must be submitted.
- Students must be enrolled in class.
- First-time borrowers at DeVry must complete loan-entrance counseling.
- Students transferring to DeVry must provide official transcripts for University verification.

Disbursements occur throughout the session, generally beginning Saturday of the first week of classes. Disbursement is based on each student's account information. More information is available via the Student Finance tab on my.devry.edu.

Retaking previously passed coursework may impact students receiving certain forms of financial assistance. Students who plan to retake a previously passed course should contact a DeVry student support advisor or student finance consultant to determine if their financial aid will be affected prior to registering for the course.

Reinstated and readmitted students may be considered for financial aid if they meet all eligibility requirements.

DeVry complies with all applicable state and federal equal credit opportunity laws; however, DeVry does not guarantee financial assistance or credit to any student.

## Financial Aid Information Verification

The federal government requires DeVry to verify the accuracy of information on certain federal student aid applications. Selected applicants must submit requested documentation before awarded aid is disbursed. Students and their parents may be required to submit a copy of their prior-year federal income tax documentation and additional household information. Other documents may also be required. If information on any of the documents conflicts with what was reported on the application, students may be required to provide additional information to resolve the conflict. Failure to do so will result in loss or nonreceipt of aid.

## Financial Aid Applicability to Elective and/or Alternate Courses

Students receiving financial aid are expected to enroll in courses that meet requirements within their academic program and should note that financial aid eligibility for coursework not applicable to the current program may be limited. Students who wish to replace/substitute a course in their current program must obtain prior approval for a course substitution in order for the course to be financial-aid-eligible.

## Loan Exit Counseling

Federal student aid regulations require that all borrowers complete loan exit counseling for their Federal Direct and/or Federal Perkins Loans. Students must complete loan exit counseling when they are graduating, leaving DeVry or enrolling for fewer than six credit hours. Loan exit counseling notifications are provided to all identified students. Student borrowers who have not completed loan exit counseling will be contacted by a financial awareness consultant to facilitate the process. Failure to complete loan exit counseling may result in placement of a hold on students' records, which would prevent fulfillment of transcript requests and release of graduates' diplomas.

## Federal Student Aid Programs

There are three categories of federal financial assistance: grants, loans and Federal Work-Study.

Grants are aid that does not need to be repaid.

Loans are aid that must be repaid, but generally not until students have graduated or stopped attending school.

Federal Work-Study provides a wage subsidy for part-time education-related, or student or community service, employment. Students are eligible for aid if they:

- Are enrolled as regular students in an eligible program.
- Are U.S. citizens or eligible noncitizens.
- Demonstrate financial need.
- Make satisfactory academic progress toward completing their program.
- Are not in default on a Federal Perkins/NDSL, Federal Direct, Federal Stafford/FFEL, Federal SLS, Income Contingent Loan or Federal PLUS Loan received at any institution.
- Do not owe refunds on a Federal Pell Grant, FSEOG, Academic Competitiveness Grant, National SMART Grant or State Student Incentive Grant received at any institution.

To help students pay for post-secondary education, the U.S. Department of Education offers six primary federal financial aid programs. DeVry University is eligible to participate in all six, which are outlined below. More information on these programs is available from the Student Finance Office or at www.devry.edu.

Applicants who are incarcerated, and students who become incarcerated, must immediately report this information to the Student Finance Office.

**Federal Pell Grants**
Federal Pell Grants help fund post-secondary education for undergraduate students who have not previously earned bachelor's degrees. For many students, these grants provide a foundation of financial aid to which aid from other sources may be added. The maximum grant for the 2015–2016 award year is $5,775. Full-time students may receive a maximum payment of $2,887 per semester. Students attending less than full time receive a prorated payment according to their enrollment status and their expected family contribution.

In accordance with the Higher Education Act, DeVry University allows all students to purchase books and supplies from the University's online bookstore and charge the expenses to their student accounts.

Federal Pell Grant recipients who do not wish to purchase books and supplies from DeVry's online bookstore may qualify for a stipend to assist with these expenses. To determine stipend eligibility, students must complete the Books and Supplies Stipend Request form prior to the start of the term. More information is available from a DeVry student support advisor or student finance consultant.

**Federal Supplemental Educational Opportunity Grants**
FSEOGs provide supplemental funds to Federal Pell Grant-eligible undergraduate students who demonstrate exceptional need. Exceptional need is defined as the lowest expected family contribution per federal need analysis methodology. Because FSEOG funds are limited, students should apply for these grants as early as possible.

**Federal Work-Study**
FWS enables students who demonstrate financial need to earn aid to pay for their education expenses. Students earn at least the current hourly minimum wage by working at the University, or for nonprofit agencies or for-profit businesses. DeVry helps eligible students locate jobs; certain restrictions apply. Unlike traditional sources of income, FWS earnings are exempt from the subsequent year's expected family contribution calculations. Students must complete the FAFSA to be considered for FWS funds.

**Federal Perkins Loans**
Students who demonstrate financial need may qualify for Federal Perkins Loans. Loan amounts are determined according to a student's need, cumulative borrowing and institutional funding. The interest rate on these loans is 5 percent, and repayment begins nine months after borrowers cease to be enrolled at least half time. The minimum monthly payment is $40, and the total debt must be repaid within 10 years. Federal Perkins funds are awarded according to institutional need-based criteria.

**Federal Direct Subsidized and Unsubsidized Loans, and Federal Direct PLUS Loans**
Loans through the Federal Direct Loan program are obtained from the U.S. Department of Education. These loans have an origination fee that is subtracted from the value of each loan disbursement. For Federal Direct Loans first disbursed between October 1, 2014, and September 30, 2015, the origination fee is 1.073 percent; for those first disbursed on or after October 1, 2015, and before October 1, 2016, the origination fee is 1.068 percent.

For Federal Direct PLUS Loans first disbursed between October 1, 2014, and September 30, 2015, the origination fee is 4.292 percent; for those first disbursed on or after October 1, 2015, and before October 1, 2016, the origination fee is 4.272 percent.

Additional information on interest rates and loan fees for Federal Direct Loans is available via http://studentaid.ed.gov/types/loans/interest-rates.

*Federal Direct Loans*
Students who demonstrate financial need qualify for a subsidy of the Direct Loan interest while in school and for the grace period (first six months after leaving school or dropping below half time). The amount of the loan that may be subsidized is limited to the lesser of students' demonstrated financial need or the academic year maximum. Students who demonstrate financial need below the academic year maximum may also borrow through this program; however, they are responsible for the interest on the amount borrowed in excess of demonstrated need.

Undergraduate freshman, sophomore and junior/senior students enrolled at least half time may borrow – from subsidized and unsubsidized Federal Direct Loans – a maximum of $5,500, $6,500 and $7,500 per academic year, respectively. The amount borrowed for undergraduate study may not exceed $31,000 for dependent students and $57,500 for independent students, with no more than $23,000 of this funding obtained from subsidized loans. The interest rate for both subsidized and unsubsidized undergraduate Federal Direct Loans first disbursed on or after July 1, 2015, and before July 1, 2016, is fixed at 4.29 percent. Students begin repaying the loan(s) six months after ceasing to be enrolled at least half time. Monthly payments are based on aggregate borrowing; the minimum monthly payment is $50 per loan. Repayment is usually completed within 10 years. Students who leave school or drop below half-time status must contact their lender(s) to establish repayment schedules.

Independent freshman and sophomore students may borrow an additional $6,000 per academic year in unsubsidized Federal Direct Loans. Independent junior and senior students may borrow an additional $7,000 per academic year in unsubsidized Federal Direct Loans.

Students must notify DeVry's Student Finance Office and their lenders of a change in local or permanent address.

*Federal Direct PLUS Loans (Parent Loans)*
These loans allow parents of students who are dependent by federal definition to borrow a maximum of educational costs less financial aid per academic year (two semesters). The interest rate for Direct PLUS Loans first disbursed on or after July 1, 2015, and before July 1, 2016, is fixed at 6.84 percent. Repayment begins within 60 days after the loan is fully disbursed.

## State-Funded Programs
In addition to federal financial assistance, state grant and scholarship programs may be available, providing funding to students who demonstrate financial need or who have successfully achieved certain academic qualifications. Typically, state grant recipients must attend an institution in their home state, and they or their parents must have resided in the state for a period of time. Proof of residency is usually required.

**New Jersey Tuition Aid Grants**
Degree-seeking students attending DeVry University in New Jersey who have lived in New Jersey at least 12 consecutive months (and, if dependent, whose parents are also New Jersey residents) may be considered for Tuition Aid Grants (TAGs) if they attend full time and have not already earned an associate or baccalaureate degree. The TAG value is based on a student's financial need (as determined by the state formula), cost of attendance and funds available. Additional information on TAGs is available from a DeVry student support advisor or student finance consultant.

### Non-Federal Student Loans

Many lenders offer private loans to students to supplement their federal financial aid. Such loans are not subject to federal student loan rules. Terms of repayment, including interest rates, vary by loan. Lenders perform a credit check and determine a loan applicant's creditworthiness before approving these loans. In some cases, a loan applicant may be required to obtain a creditworthy cosigner before a loan will be approved. In most cases, having a cosigner will help improve the terms of the loan (i.e., lower the interest rate and any fees charged to the loan). Additional information and application assistance are available from the Student Finance Office.

### AmeriCorps

Education awards earned through service in AmeriCorps, a program enabling Americans to perform community service in local projects, may be used to help pay educational costs. These awards also may be used to repay educational loans. Students may work on AmeriCorps-approved projects either full or part time, before, during or after attending a post-secondary institution. Further information is available via www.nationalservice.gov/programs/americorps.

### Veterans Benefits

DeVry participates in the federal Yellow Ribbon program for students using Chapter 33 benefits.

Students who may qualify for veterans education benefits should notify their DeVry admissions advisor/representative and meet with the University's veterans benefits coordinator regarding eligibility as far in advance of their scheduled class start date as possible.

In addition to meeting DeVry's standards of academic progress requirements, students receiving veterans education benefits must also meet Veterans Administration standards of academic progress requirements. Failure to do so may result in loss of benefit eligibility until deficiencies are corrected. Students receiving VA benefits should see *Additional Standards of Academic Progress Information for Students Receiving Veterans Education Benefits*. Questions regarding these requirements should be directed to the University's veterans benefits coordinator.

*Note: In Washington, selected programs of study at DeVry University are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.*

### Payment Options

Students who wish to may pay their full account balance in one payment, which is due at the beginning of each session.

Payment plans are available for those who wish to defer payment(s). Those wishing to take advantage of deferred payment(s) must submit a completed payment plan agreement. A new agreement is required should students wish to change plans. Students may choose one of the payment options outlined below.

Further information is available from a DeVry student support advisor or student finance consultant. Delinquent payments may result in loss of payment plan privileges and registration holds.

**Standard Plan**

The Standard Plan, which helps students pay for tuition, books and required electronic materials, provides a monthly payment plan that is developed using students' expected enrollment and financial assistance funding. Students can self-enroll in this payment plan after tuition has posted for the session and prior to generation of the first bill. The first monthly installment is due 22 days after the first bill is generated.

**Deferred Plan**

Available to students using employer tuition reimbursement, and whose employers submit a tuition-reimbursement statement on students' behalf, the Deferred Plan enables tuition charges to be deferred until Monday of week five of the subsequent session. Additional charges – such as those for books and course materials – are due 22 days after the first billing statement has been generated.

**Direct Bill Plan**

Available to students for whom an employer or third party will be paying DeVry directly for tuition and fees, the Direct Bill Plan allows the employer or third party to delay full payment of tuition and fees until Friday of week seven of the subsequent session. To enroll in this plan, students must submit documentation of eligibility for the direct billing arrangement offered by their company or the third party. Enrollment in this payment plan does not eliminate students' responsibility to ensure tuition is paid by the due date.

### DeVry Scholarships and Grants

*Note: Students are limited to participation in one DeVry-based scholarship, grant or group pricing program only. If students qualify for more than one such program, the one most beneficial is awarded. Students who qualify for and prefer a different scholarship, grant or group pricing program must provide written confirmation, prior to starting classes at DeVry, of the alternate program in which they wish to participate. In the rare case when scholarship, grant or group tuition pricing programs are combinable, students are made aware of this opportunity by their admissions advisor, student support advisor or student finance consultant.*

Applicants may apply for DeVry University scholarships or grants during the admissions process and should work with their admissions advisor/representative to do so.

Additional information is available at www.devry.edu/financial-aid-tuition/scholarships/devry-scholarships.html.

**Basic Scholarship and Grant Eligibility**

To qualify for a DeVry scholarship or grant, students must meet all the following criteria, as well as meet criteria outlined for each scholarship or grant award. Students may also be required to meet additional criteria.

- Students must have applied for admission to DeVry.
- Students must have met DeVry entrance requirements.

**General Scholarship and Grant Policies**

• Recipients are responsible for all other education expenses.

• Only degree-seeking students are eligible for scholarship or grant funds.

• Recipients must be U.S. citizens, Canadian citizens or reside within the United States. International students studying on a visa are not eligible unless specified in specific award criteria.

• For students to be eligible for scholarships or grants, applications for such must be received prior to the start of classes. Award recipients who do not start in the intended term specified on their admissions application have one subsequent term to start classes and use the award. Recipients who do not start within two terms have their award expired and must reapply for available offerings at the time of actual enrollment.

• Scholarship and grant recipients are expected to meet certain continuing eligibility criteria and progress in a timely manner toward completing their programs. To retain scholarship or grant eligibility, recipients must remain in good academic standing and meet additional conditions outlined in the terms and conditions document sent to award recipients.

• To qualify for scholarship or grant funds, students must maintain continuous enrollment on a semester basis. Students may enroll in fewer than the required credit hours within the semester only once while completing their program of study.

• Recipients must acknowledge receipt of the terms and conditions document pertaining to their specific scholarship or grant award. Disbursement of funds may be withheld until receipt of this document is acknowledged in writing and returned by recipients.

### Bridge2Bachelor's

Bridge2Bachelor's helps prepare qualified students for the demands of completing a bachelor's degree program and ease the transition into DeVry University. The program also offers one complimentary college-level course to eligible students.

To be eligible for the program, students from DeVry-recognized community or two-year colleges, or at similar institutions, must:

• Have applied, and been admitted, to DeVry University as non-matriculating students while attending such institutions.

• Enroll in the complimentary course no later than one semester (two consecutive sessions) past their graduation date from such institutions.

The application fee is waived for these individuals. More information is available from DeVry admissions advisors/representatives.

### Passport2College™

Passport2College offers college-level classes to qualified high school juniors and seniors who wish to earn college credit at no tuition cost while still attending high school. This program is designed to help students become better prepared for the demands of college and facilitates smooth transition from high school to the university environment.

# Cancellations & **Refunds**

Applicants who do not achieve a satisfactory score on DeVry's placement examination(s) are denied admission, notified in writing and receive a refund of prepaid tuition upon written request.

Applicants may cancel their enrollment without penalty prior to midnight of the tenth business day after the date of transaction or acceptance (cancellation period). After the cancellation period, the application fee is not refunded. The deadline is extended to 30 days after the original intended class start date if the applicant does not start at that time.

A student who cannot start on the original class start date must notify the director of admissions or new student coordinator. If the student starts classes within six sessions of the original start date, a second application fee is not required. After this period, a new enrollment agreement must be signed and accompanied by required fees.

A student who does not report for class may request a refund of any monies paid to DeVry over and above the application fee, or as required by applicable state and/or federal regulations. Refunds on textbooks and supplies purchased through the University's online bookstore are made in accordance with the online bookstore's return/refund policy.

Students must make all schedule changes by the end of the first week of a session (add/drop period) to receive a tuition adjustment.

After classes begin, students may withdraw from a course by formally requesting a course withdrawal prior to Friday of week seven at 11:59 pm MT. Students who withdraw are responsible for all outstanding financial obligations. In addition, those receiving federal student loans must complete a loan exit interview with a student support advisor or student finance consultant prior to withdrawing.

Regarding cancellations, any prepaid fees or tuition are refunded unless the student transfers to another DeVry location.

In compliance with applicable requirements, DeVry issues refunds to students who completely withdraw from all classes prior to completing a session. Refund calculations are based on week of withdrawal, DeVry's policy and the policy of the student's original state of residence. Of the refund amounts calculated, the one most favorable to the student is issued. In all cases, policies are applied to tuition charged for the period of enrollment from which the student withdrew. Examples of refund calculations are available from the Student Finance Office.

Refunds are calculated according to the last documented date of attendance and issued within 30 days of the withdrawal notification date or the date DeVry determines the student is no longer enrolled, whichever is earlier.

## DeVry Policy
At a minimum, refunds are calculated as follows:

| Date of Withdrawal During: | Percent Refund of Tuition (Less Administrative Fee*) |
|---|---|
| First day of scheduled classes** | 100% |
| Balance of week 1 | 90% |
| Week 2 | 75% |
| Weeks 3 and 4 | 25% |
| Weeks 5–8 | 0% |

*The administrative fee is 5% of tuition charges for the applicable period of enrollment or $150, whichever is less.
**Financial aid awards for students who cancel their enrollment during this period are cancelled; and any funds students received are returned to the funding source.

## Georgia Policy
Students who have completed 50 percent or less of the session are entitled to a refund as follows, or as required by applicable state or federal laws and regulations if more favorable to the student:

| Withdrawal Period | Refund |
|---|---|
| Days 1–3 of session | 95% |
| Days 4–6 of session | 90% |
| Days 7–14 of session | 75% |
| Days 15–28 of session | 50% |
| Days 29–56 of session | 0% |

**Fees**
Institutions that charge for fees, books and supplies that are in addition to tuition must refund any unused portion of the fees if a student withdraws before completing 50 percent of the period of enrollment except for:

- Items that were specially ordered for a particular student and cannot be used or sold to another student.
- Items that were returned in a condition that prevents them from being used by or sold to new students.
- Nonrefundable fees for goods and/or services provided by third-party vendors.

## All Other States Policy
Students whose original state of residence is Indiana, Iowa, Maryland, Nevada, Oklahoma, Oregon, West Virginia or Wisconsin should refer to their enrollment agreement addendum for their state's minimum refund policy. In cases where the refund policy of one of these states differs from those shown above, students receive the more favorable refund. For students from all other states, the refund is calculated according to the DeVry policy and the policy of the student's original state of residence. The student receives the more favorable refund.

## Federal Return of Funds Policy

According to federal regulations, a federal refund calculation must be performed if a student receiving financial aid withdraws completely from all classes after the start of the enrollment period.

Length of enrollment is equal to the number of calendar days, including weekends and holidays, in the periods in which the student was registered. However, breaks of five days or more are excluded.

The withdrawal date is the date the student begins the official withdrawal process – electronically, in writing, in person or by telephone, whichever is earliest – or otherwise officially notifies the institution of his/her intent to withdraw. For a student who withdraws without notification, the University may use either the last date of academic attendance or the midpoint of the enrollment period as the withdrawal date. Failure to notify the Financial Aid Office of a withdrawal may result in additional tuition liability.

Return of funds is calculated as follows:

- If the student's percentage of enrollment period completed is greater than 60 percent, the student has earned – and must repay – 100 percent of the federal aid received.

- If the student's percentage of enrollment period completed is 60 percent or less, the calculated percentage of enrollment will be used to determine the amount of aid returned.

Return of funds occurs in the following order:

1. To the Federal Direct Unsubsidized Loan program
2. To the Federal Direct Subsidized program
3. To the Federal Perkins Loan program
4. To the Federal Direct PLUS Loan program
5. To the Federal Pell Grant program
6. To the Federal Supplemental Educational Opportunity Grant (FSEOG) program
7. To other Title IV aid programs
8. To state grant programs, and/or to private or other institutional aid programs
9. To the student

# Regulations

## Privacy Act

DeVry complies with the Family Educational Rights and Privacy Act of 1974, as amended. This Act protects the privacy of students' educational records, establishes students' rights to inspect and review their academic records, and provides guidelines for correcting inaccurate and misleading data through informal and formal hearings.

DeVry's policy on releasing student-related information explains our procedures for complying with the Act's provisions. Copies of the policy are available in the student handbook.

## Nondiscrimination Policy

DeVry is an educational institution that admits academically qualified students without regard to gender, age, race, national origin, sexual orientation, political affiliation or belief, religion or disability and affords students all rights, privileges, programs, employment services and opportunities generally available.

DeVry complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 and does not discriminate on the basis of disability.

The Office of Student Disability Services – which can be reached by email at adaofficer@devry.edu, or at 877-496-9050, option 3 – can provide additional information about this policy and assistance with accommodation requests during the admission process or after enrollment.

## Title IX Compliance

DeVry University's Title IX coordinator is responsible for overall compliance with Title IX, including response to reports of sexual misconduct affecting the campus community. Questions regarding the application of Title IX and compliance should be directed to the Title IX coordinator, whose contact information is available below. Students who wish to make a report of sexual misconduct affecting the campus community should follow the student complaint procedures published in the student handbook.

Mark Ewald
Title IX Coordinator
Director, Ethics and Compliance Services
DeVry Education Group
3005 Highland Pkwy.
Downers Grove, IL 60515
630.353.1437
mewald@devry.edu

## Drug-Free Schools and Communities Act

DeVry complies with the Drug-Free Schools and Communities Act and forbids use, possession, distribution or sale of drugs or alcohol by students, faculty or staff anywhere on University property. Anyone in violation of state, federal or local regulations, with respect to illegal drugs or alcohol, may be subject to both criminal prosecution and University disciplinary action.

## Campus Crime and Security Act

DeVry complies with the Campus Crime and Security Act of 1990 and publishes the required campus crime and security report on October 1 of each year.

Should students be witnesses to or victims of a crime, they should immediately report the incident to the local law enforcement agency. Emergency numbers are located throughout the University.

**Safety Information**
The security of all University members is a priority. Each year DeVry publishes a report outlining security and safety information, as well as crime statistics for the community. This report provides suggestions about crime prevention strategies as well as important policy information on emergency procedures, reporting of crimes and support services for victims of sexual assault. The report also contains information about DeVry's policy on alcohol and other drugs, and informs students where to obtain a copy of the alcohol and drug policy. This report is available at DeVry or by calling 800.73.DEVRY.

## Academic Freedom

DeVry University supports development of autonomous thought and respect for others' ideas. As such, members of the DeVry community, including students and faculty, should feel free to discuss their questions and express their opinions both publicly and privately within the boundaries of the Code of Conduct and other reasonable behavioral expectations, noting in their expressions or demonstrations that they speak for themselves only.

## Rules and Enrollment Conditions

DeVry expects mature and responsible behavior from students and strives to create and maintain an environment of social, moral and intellectual excellence. DeVry reserves the right to suspend or permanently expel students whose work or conduct is deemed unsatisfactory.

Explanations of the academic integrity policy, Code of Conduct, disciplinary process and student complaint procedures are provided in the student handbook.

## Plagiarism Prevention

As part of our commitment to academic integrity, DeVry subscribes to an online plagiarism prevention system. Student work may be submitted to this system, which protects student privacy by assigning code numbers, not names, to all student work stored in its databases.

## Graduation Rates

DeVry complies with the Student Right To Know Act and annually prepares the graduation rate of its degree-seeking, full-time undergraduate students who have graduated by the end of the 12-month period ending August 31, during which 150 percent of the normal time for graduation from their program has elapsed.

This information is available from DeVry admissions staff or by calling 800.73.DEVRY.

## Tardiness

Students are expected to be present at the beginning of each class meeting. Cases of excessive tardiness may be used by professors as a criterion when computing students' grades.

### Disciplinary Action

Students who have potentially breached the University's rules or conduct standards are referred to the conduct administrator assigned to the student's location. The conduct administrator will proceed according to the University's Code of Conduct applicable to students, which is published in the student handbook. The Code of Conduct defines the University's conduct standards and provides a process that allows for notice to the student, an opportunity to respond and participate in the process, and an opportunity to appeal. Sanctions that may be imposed as the result of a Code of Conduct proceeding are also listed in the published Code of Conduct.

### Rescinding Award Conferrals

DeVry University reserves the right to sanction a student or graduate with permanent expulsion from all DeVry institutions, including other DeVry University locations. DeVry also reserves the right to rescind award conferrals if they were based on submission of documents that were forged, fraudulent, altered, obtained inappropriately, materially incomplete or otherwise deceptive, or if a student or graduate misused DeVry academic documents.

Students or alumni who submit fraudulent documents or misuse DeVry University academic documents are afforded rights to a hearing under the Code of Conduct. The misconduct is adjudicated using procedures specified in the Code of Conduct and may result in University expulsion.

Students and graduates whose award conferrals are rescinded remain responsible for fulfilling financial obligations to any DeVry institution; federal, state and local governments; and private loan providers.

### Student Complaint Procedures

In general, all students should first attempt to resolve concerns orally or in writing with the individual(s) most directly connected to their complaints. If that is not appropriate or successful, students attending onsite should direct their concerns to the student central manager or to the academic affairs specialist at the location they attend. Students attending online should file their complaints with the academic advising team lead.

For all students, complaints involving allegations of discrimination or harassment – including sexual misconduct – may be filed with the Title IX coordinator (see *Title IX Compliance*) or with the human resources business partner serving the location the complaining student attends. See the student handbook for more details.

In compliance with state regulations, Arizona, Georgia and New Mexico students with complaints not resolved by the above procedure may file complaints with the Arizona State Board for Private Postsecondary Education (1400 W. Washington St., Phoenix, AZ 85007, 602.542.5709), the Georgia Nonpublic Postsecondary Education Commission (2189 Northlake Pkwy., Tucker, GA 30084, 770.414.3300, www.gnpec.org) and the New Mexico Higher Education Department (2044 Galisteo St., Ste. 4, Santa Fe, NM 87505, 505.476.8442, www.hed.state. nm.us/institutions/complaints.aspx), respectively.

In Virginia, students who do not feel they received a satisfactory resolution to their complaint may contact the State Council of Higher Education for Virginia (SCHEV, Attn: Private and Out-of-State Postsecondary Education, 101 N. 14th St., James Monroe Bldg., Richmond, VA 23219) as a last resort in the complaint process. Students will not be subject to adverse action as a result of initiating a complaint with SCHEV.

Students not satisfied with the final disposition of the complaint process may contact the state licensing authority, the University's accreditor or the state attorney general. A complete list of contact information for state licensing authorities and state attorney general offices is located at devry.edu/studentconsumerinfo.

# Administration
# & Faculty

To ensure that students gain the most relevant education, DeVry University combines the expertise of seasoned education administrators and a nationwide faculty of hundreds of dedicated full-time professors plus thousands of other faculty. Together, these professionals focus squarely on making your academic experience valuable, meaningful and relevant to employers' needs.

Nearly all DeVry University faculty hold master's degrees, PhDs or other doctorate degrees and bring their passion for teaching to the learning environment every day. Through rigorous training, the University prepares new professors to teach and fully supports *all* faculty in their ongoing dedication to educational excellence. Our professors rely on thorough curriculum guides to present courses and then supplement course delivery with various instructional activities geared toward students' career success.

In addition, to remain current on advances in their fields, many DeVry University faculty and administrators actively participate in leading industry professional organizations, as well as in organizations dedicated to excellence in education programs and services.

The following pages present University administrators by state and location. Administration rosters are followed by lists of full-time professors teaching within each state, and online. Faculty may teach at the undergraduate or graduate level; often they teach courses at both levels. Information on professors teaching at a specific DeVry University location is available from local staff members.

A comprehensive list of employed visiting professors who teach onsite or online is available via www.devry.edu/d/adjuncts.pdf. A comprehensive list of independently contracted adjuncts who teach onsite or online is available via www.devry.edu/d/onlinevisitingprof.pdf.

Supporting you every step of the way are professors and academic administrators **dedicated to helping you succeed.**

# Local **Administration**

## ARIZONA

### GLENDALE

**Thomas Pettit**
Center Dean
MBA University of Phoenix

**Ira M. Rubins**
Interim Dean of Academic Affairs
MA Miami University
PhD Arizona State University

### MESA

**Pamela Morrison**
Center Dean
MHRM Keller Graduate School
of Management

### PHOENIX

**Anthony Spano**
Metro President
MS University of Central Oklahoma

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