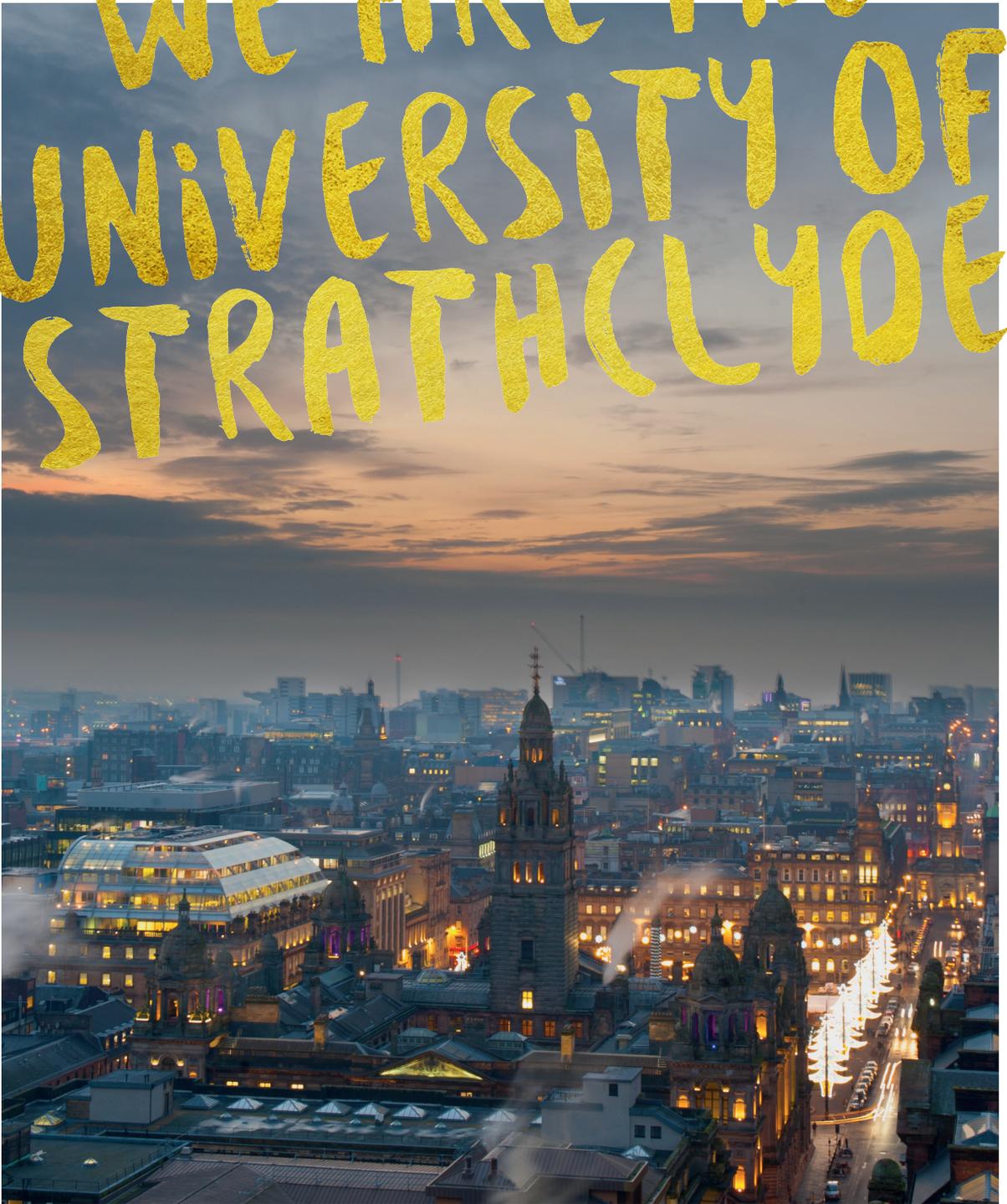


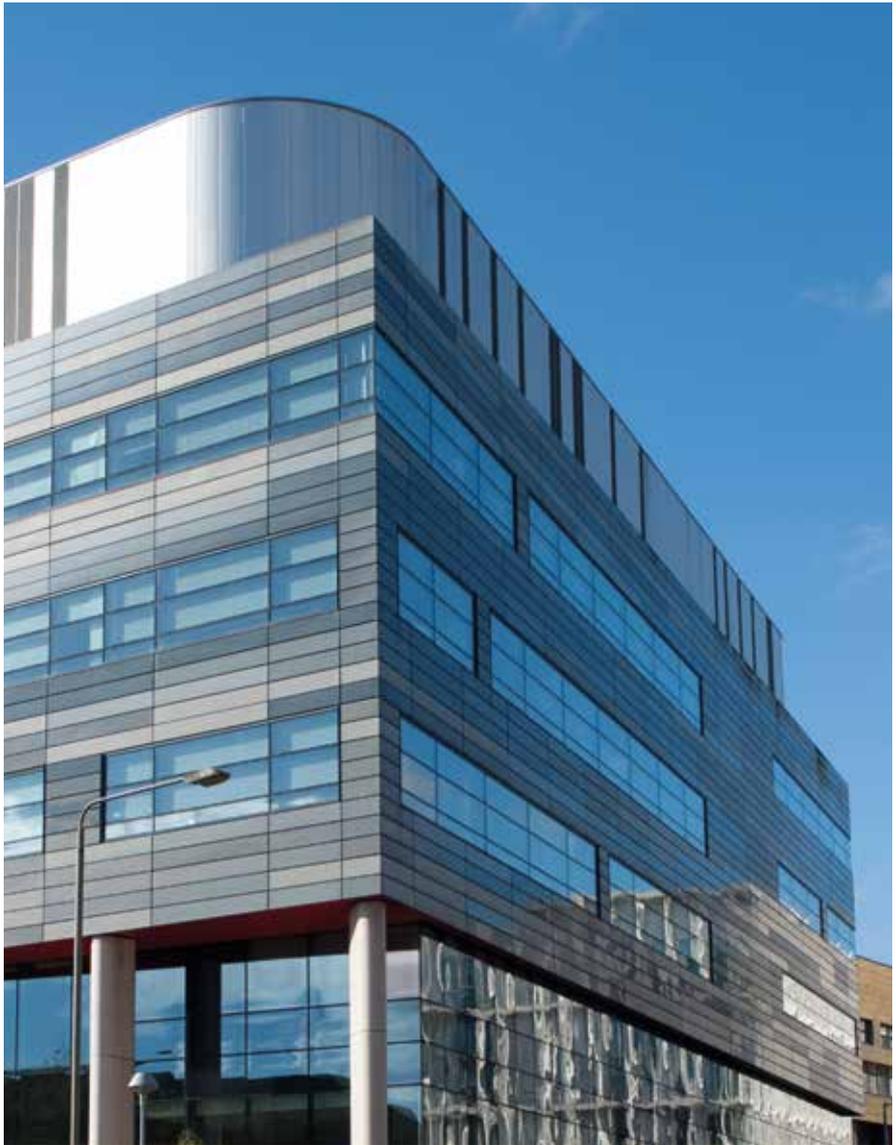
# WE ARE THE UNIVERSITY OF STRATHCLYDE



UNDERGRADUATE PROSPECTUS 2018

**WELCOME**

**TO THE  
UNIVERSITY OF  
STRATHCLYDE**



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WE ARE A LEADING INTERNATIONAL TECHNOLOGICAL UNIVERSITY LOCATED IN THE HEART OF GLASGOW, SCOTLAND'S BIGGEST CITY. WINNER OF FOUR TIMES HIGHER EDUCATION AWARDS. TOP UNIVERSITY FOR RESEARCH PARTNERSHIPS WITH BUSINESS. STRATHCLYDE BUSINESS SCHOOL IS ONE OF THE FEW BUSINESS SCHOOLS IN THE WORLD TO HOLD TRIPLE-ACCREDITATION STATUS. OVER 250 UNDERGRADUATE COURSES TO CHOOSE FROM. THE ONLY UK HIGHER EDUCATION INSTITUTION INVOLVED IN ALL FOUR OF THE UK'S QUANTUM TECHNOLOGY HUBS. WE HAVE 22,000 STUDENTS FROM MORE THAN 100 COUNTRIES. WE ARE HOME TO SCOTLAND'S LARGEST FACULTY OF ENGINEERING. OUR PHYSICS RESEARCH IS RATED NUMBER 1 IN THE UK.

---

# VISIT US



## VISIT STRATHCLYDE

**Come and visit our campus and find out all about life at Strathclyde.**

'Visit Strathclyde days' take place throughout the year and include a student-led campus tour, giving you a great opportunity to come and sample what life at Strathclyde is all about.

Or visit at your leisure and enjoy a campus tour podcast narrated by some of our current students studying here at the University of Strathclyde.





# OPEN DAYS

Find out why we love the University of Strathclyde

Visit us in 2017:

**Tuesday 5 September**

**Saturday 7 October**

Visit [www.strath.ac.uk](http://www.strath.ac.uk)  
and search 'Open Day'





Iconic facade of the former Templeton carpet factory, Glasgow Green

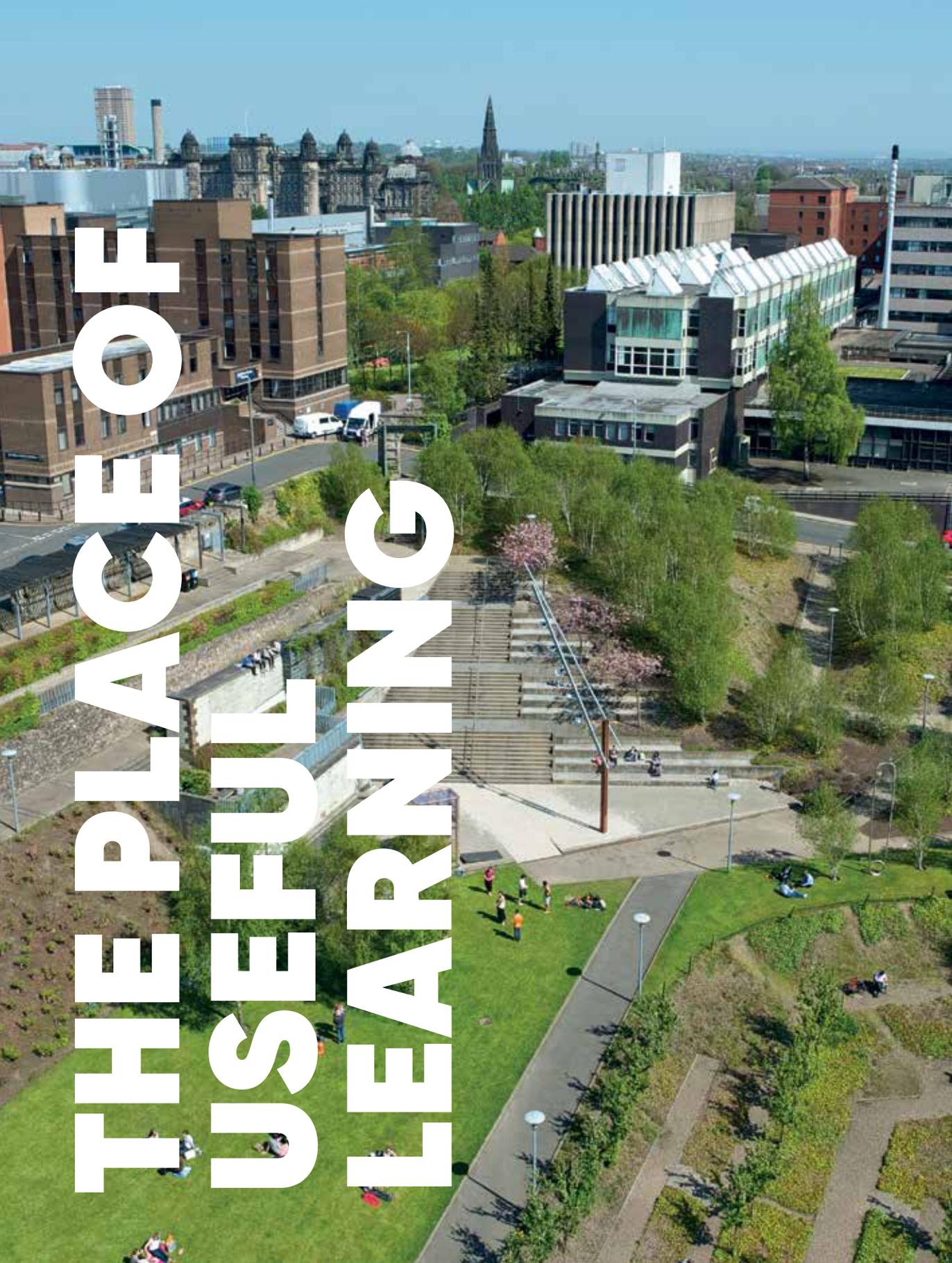
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**Why Strathclyde? We're a leading international technological university located in the heart of Glasgow, Scotland's biggest city. Our commitment to useful learning guides our research, our learning and teaching and the way we work with businesses and organisations.**

With thanks to individuals and Departments throughout the University who have contributed to this prospectus. Photography © University of Strathclyde, Visit Scotland, and Shutterstock.

The University of Strathclyde is a charitable body, registered in Scotland, with registration number SC015263.



# THE PLACE OF USEFUL LEARNING

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# WE ARE INVESTING IN OUR CAMPUS WITH A NEW £33M SPORTS & HEALTH FACILITY COMING IN 2018. WE PRODUCE GRADUATES WHO ARE READY FOR THE WORKPLACE. WE ARE ONE OF THE UK'S TOP 20 RESEARCH UNIVERSITIES.

---

**A technological university, our reputation and influence is global. Located in the heart of Glasgow, Scotland's biggest city, studying at Strathclyde is a fantastic experience, where you will enjoy flexible, innovative learning and excellent facilities.**

Our students follow in the footsteps of extraordinary people, whose work is having a major impact around the world. Some of our acclaimed former students include John Logie Baird – inventor of the world's first working television, James Blyth – who built the world's first electricity-producing wind turbine, and Henry Faulds the originator of fingerprint identification.

- We have launched the world's first maritime safety research centre.
- Winner of Europe's biggest space technology innovation competition: Strathclyde was the overall and UK regional winner of the European Satellite Navigation Competition (ESNC) for a low-cost early detection system for UAVs (Unmanned Aerial Vehicles).
- First Scottish university to receive the prestigious Small Business Charter Gold Award – joining an elite group of institutions at the forefront of entrepreneurship in the UK.



Clockwise from top: sunset at Lochan na h-Achlaise on Rannoch Moor; the Zaha Hadid-designed Riverside Museum; Victorian Architecture on Glasgow's Buchanan Street; the exterior of Glasgow's Gallery of Modern Art Opposite: Rottenrow Gardens, in the heart of the University campus

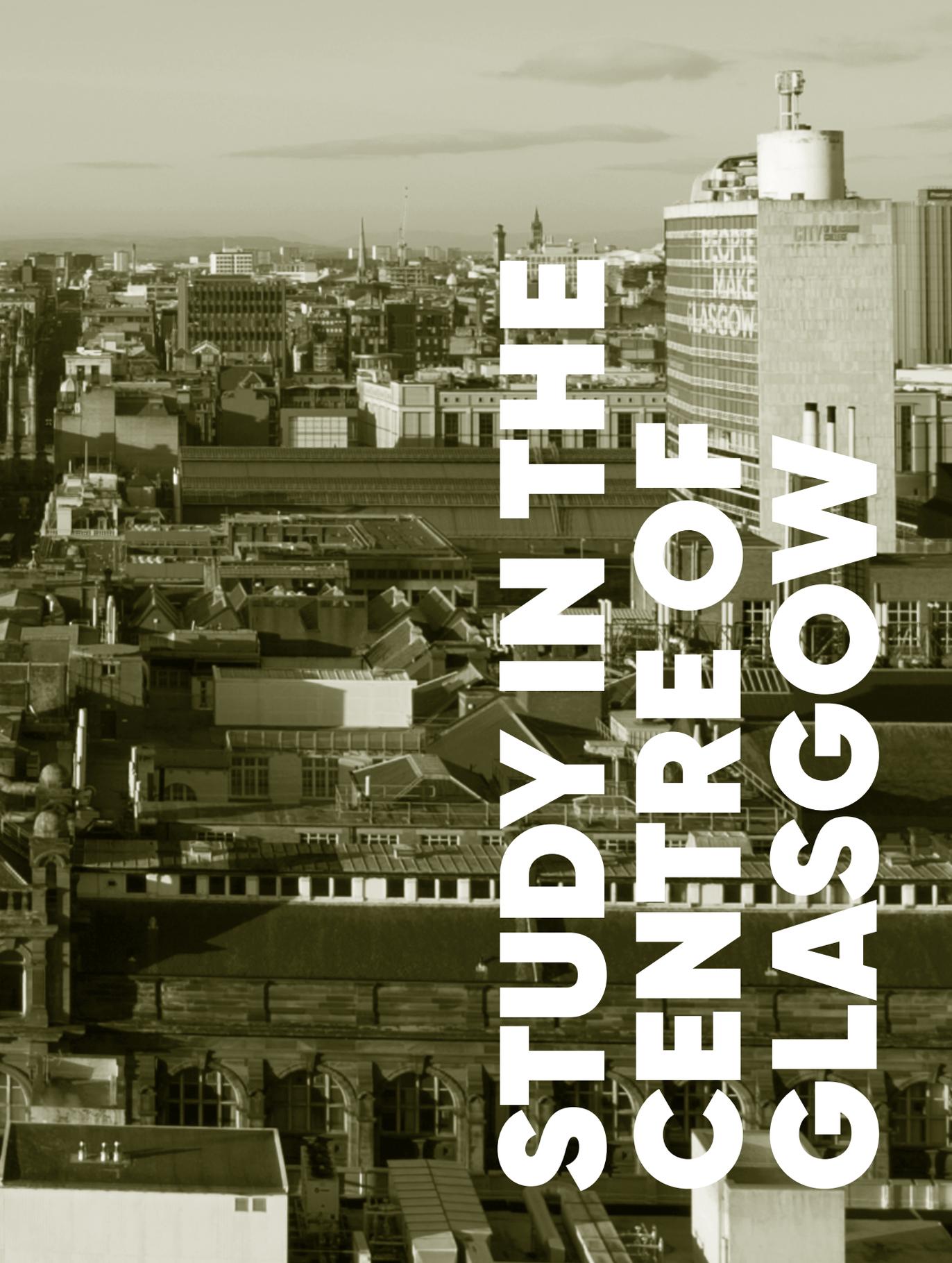
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CITY-CENTRE LOCATION. NEW  
£31 MILLION SPORTS & HEALTH  
FACILITY COMING IN 2018.

OUR BUILDINGS ARE HOME TO  
WORLD-CLASS COMPANIES  
INCLUDING THE WEIR GROUP,  
GLAXOSMITHKLINE, ROLLS-  
ROYCE AND FRAUNHOFER. WE  
HAVE INVESTED MORE THAN  
£600 MILLION IN OUR CAMPUS  
OVER THE PAST DECADE. WE ARE  
HOME TO ONE OF SCOTLAND'S  
LARGEST STUDENTS' UNIONS.

WE ARE RATED AS A FIVE-STAR  
INSTITUTION BY QS, COMPILER  
OF THE PRESTIGIOUS QS WORLD  
UNIVERSITY RANKINGS.

---



# STUDY IN THE CENTRE OF GLASGOW

# WE LOVE GLASGOW

Glaswegians are the friendliest people I have ever met. I live in the city centre, which is very handy for getting about and meeting people. I'm very glad that I chose to come and study here. Glasgow is home for me now.

CARLY CULLEN  
CURRENT STUDENT

There's never been a more exciting time to study in Glasgow and every year, thousands of students choose to study at the University of Strathclyde. From world-class attractions and a diverse culinary scene, to one of the best city-centre shopping experiences in the UK, we're not exaggerating when we say that there is always something to do in Glasgow.

Our campus sits in the heart of Glasgow, giving our students instant access to world-class architecture, a vibrant nightlife, breath-taking scenery and outstanding shopping. Glasgow has earned its reputation as one of the world's greatest cities – here's why you should study at Strathclyde.

---

11% OF ALL NOBEL PRIZES HAVE BEEN AWARDED TO SCOTSMEN. **GLASGOW IS SCOTLAND'S CITY OF CULTURE.** 11% OF SCOTTISH PEOPLE HAVE RED HAIR – A HIGHER PERCENTAGE THAN IN ANY OTHER COUNTRY. **OUR NATIONAL DRINK IS WHISKY, AKA THE WATER OF LIFE.** SCOTLAND HAS 790 ISLANDS, 130 OF WHICH ARE INHABITED.

---

## DISCOVER GLASGOW AND BEYOND

With Glasgow only a short journey from the beautiful landscape of the Trossachs and the Highlands, our students are perfectly positioned to explore everything that Scotland has on offer. From hill walking, football, rugby, golf, snow sports, and mountain biking and water sports to climbing and paintballing, our students are never short of things to do while experiencing Scotland's magnificent landscapes.

We have more than 31,000 freshwater lochs and 282 Munros (mountains in Scotland over 3,000 feet high) to explore as well as world-class mountain bike trials. We also have our own ski season with five ski centres across the highlands, and a year-round indoor ski centre located right here in Glasgow.

For those who want to discover Scotland's past, you can visit our historic castles and monuments and explore the thriving arts and culture scene of the towns and cities.



Clockwise from top: Princes Square, packed with great shops and fantastic bars and restaurants; Kilchurn Castle on Loch Awe, Argyll; the Duke of Wellington statue, Royal Exchange Square



**MAKE  
GLASGOW  
YOUR HOME**

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OUR ACCOMMODATION PROCESS ENSURES THAT WE MATCH YOU UP WITH PEOPLE WE THINK YOU WILL GET ALONG WITH. ALL OUR HALLS OF RESIDENCE ARE ONLY A FEW MINUTES' WALK FROM THE MAIN UNIVERSITY BUILDINGS AND ENJOY EXCELLENT ACCESS TO FACILITIES. WE PROVIDE SECURE ACCOMMODATION FOR EVERY NEW ELIGIBLE STUDENT\*.

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## ACCOMMODATION

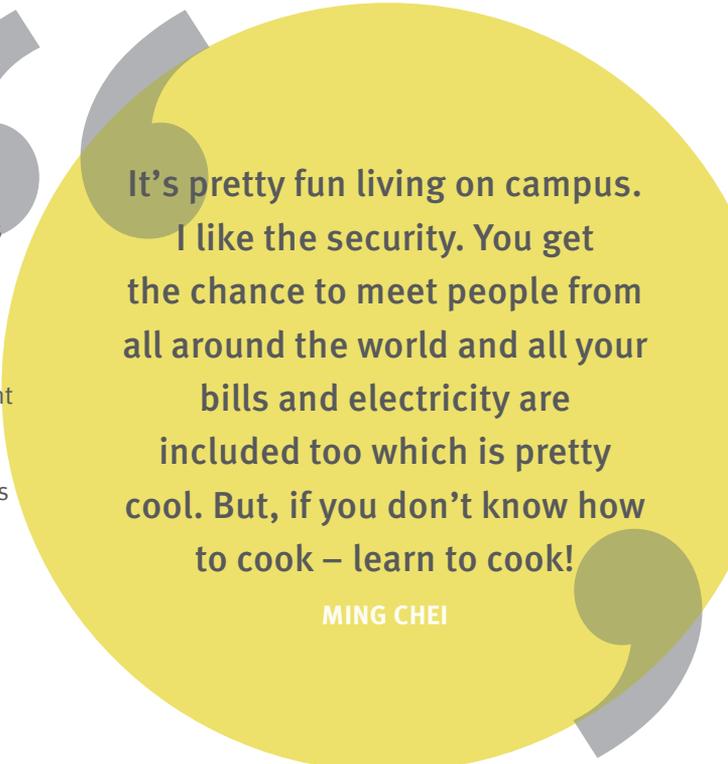
**Make lifelong friends and feel at the centre of University life with our student accommodation.**

More than 1,440 students live in our Campus Village with a further 400 living in our off-campus residences situated about a 10-minute walk from the main campus.

All the accommodation in the Campus Village is self-catered with a dedicated on-site management team and a night porter outside office hours.

The cost of the accommodation in 2016/17 ranges from £99 per week for a single study bedroom, to £133 per week for a single study bedroom with en-suite toilet and shower. Please visit the website for the most up-to-date information.

\* living out with a 25-mile radius of the city centre and who has satisfied every condition of entry to the University by 25 August



**It's pretty fun living on campus. I like the security. You get the chance to meet people from all around the world and all your bills and electricity are included too which is pretty cool. But, if you don't know how to cook – learn to cook!**

**MING CHEI**

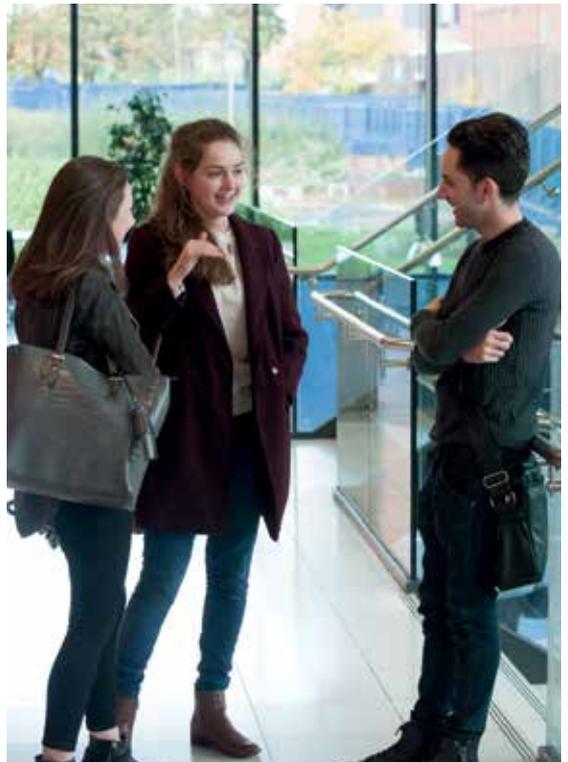
# STRATHLIFE



## YOUR #STRATHLIFE

Starting at university, meeting new people, living on campus, managing your own budget and discovering a new way of learning is exciting.

If you need a helping hand we'll be here to support you throughout your time as a student. From a state-of-the-art library to one of Scotland's most dynamic student unions, Strathclyde has everything you need for an amazing student experience.





# SPORTS AT STRATHCLYDE



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OVER 140 CLUBS & SOCIETIES INCLUDING THE DEBATES SOCIETY, THE STRATHCLYDE POKÉMON SOCIETY AND THE LGBT SOCIETY, TO NAME BUT A FEW. **WHETHER YOU ARE AN ELITE ATHLETE OR A COMPLETE BEGINNER, WE HAVE SPORTS OPPORTUNITIES HERE FOR ALL.** OUR 10-FLOOR UNION BUILDING IS THE BIGGEST IN SCOTLAND.

---

**Join our Students' Union and discover all they have to offer. The University of Strathclyde Students' Association (USSA) represents the needs of all Strathclyde students and constantly campaigns on your behalf, even when you don't realise it.**

Our students can enjoy amazing bars, catering and entertainment, help with running societies, sports clubs and volunteering activities. Drop into The Scene for a great menu and a comfortable place to eat, try one of the theme nights in the Barony Bar, or have a game of pool, a bite to eat and a drink in the Yard.

If you enjoy sports, you'll be spoilt for choice at Strathclyde. Our sports union offers a wide range of facilities and team sports which cater for all abilities. Clubs range from outdoor and indoor, competitive and non-competitive, to extreme and mainstream. Teams compete regularly in leagues across Scotland, the UK and internationally, and many clubs also have trips away, either to compete or simply for social tours.



Clockwise from top: the Strathclyde Cricket team; try out kickboxing; enjoy a coffee in one of our many cafés and bars. Opposite: the Strathclyde Rugby team

# CENTRE FOR SPORT AND RECREATION



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OUR SPORTS HALL HAS 6 BADMINTON COURTS, 2 VOLLEYBALL, 2 BASKETBALL, 2 NETBALL, 2 FOOTBALL, 1 HANDBALL, 1 INDOOR TENNIS AND 1 INDOOR HOCKEY COURT. WE HAVE FIVE HIGH STANDARD SQUASH COURTS AND A WEIGHTS ROOM WITH ADDITIONAL WEIGHT TRAINING SPACE. ENJOY EXERCISE CLASSES RANGING FROM YOGA TO BODY ATTACK.

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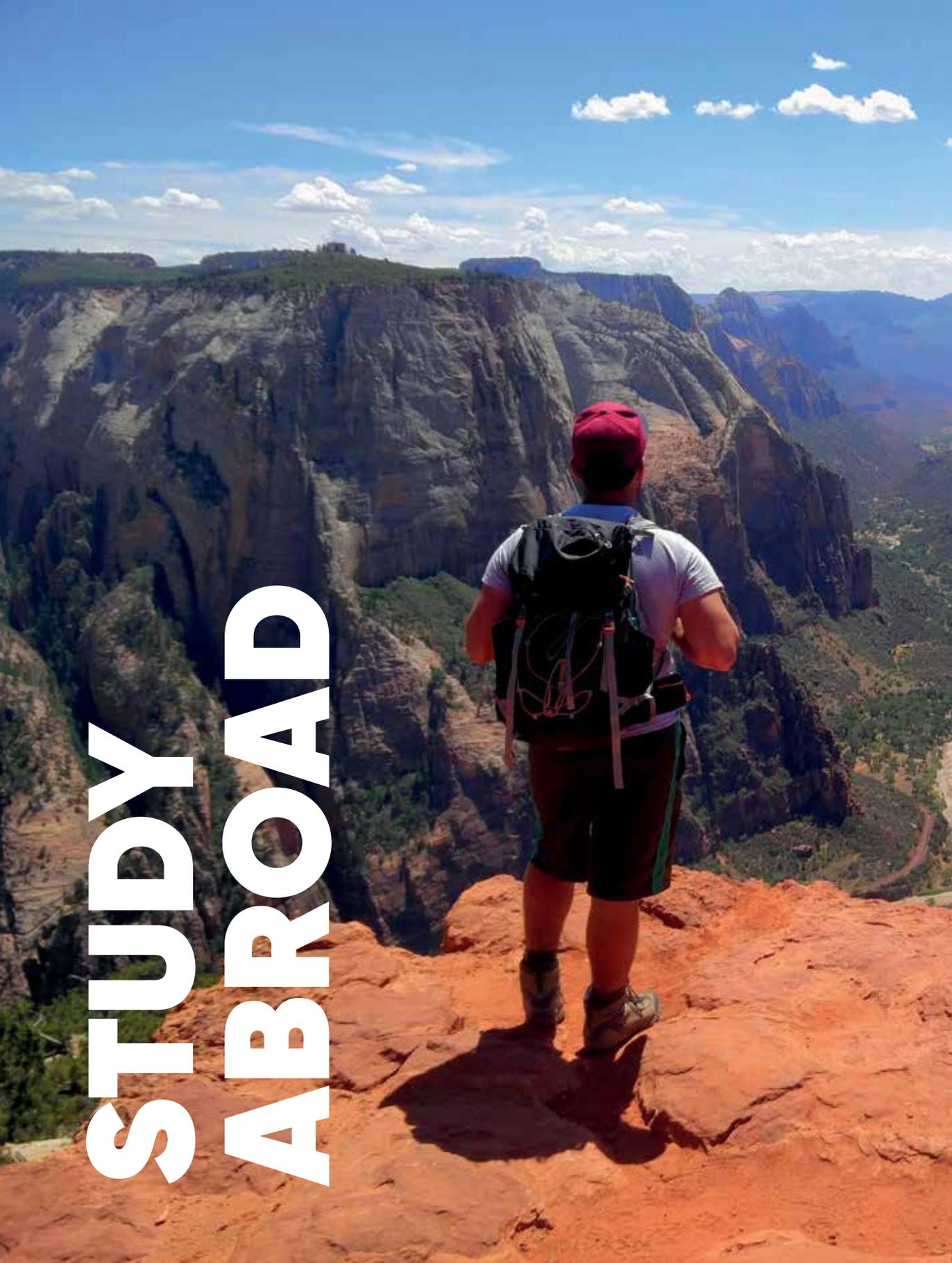
## CENTRE FOR SPORT AND RECREATION

As part of a £350 million investment in our campus, we are developing a leading-edge sports and health facility on campus.

Our £31 million Sport, Health and Wellbeing facility will open in 2018 and will offer state-of-the-art specialist space for training and teaching provision for the University community. Facilities will include a 25-metre, six-lane swimming pool, new sauna and steam rooms, along with four consultation rooms offering a range of services including physiotherapy, massage, nutrition consultation.

Our current Centre for Sport and Recreation offers a range of fitness classes, health consultations, gym programmes, alongside a sports hall, squash courts, a fitness suite and a four-lane swimming pool. We also have outdoor playing fields with pitches for a variety of sports.

# STUDY ABROAD



“

Studying at Clemson University in South Carolina, USA truly was the best six months of my life. During my time on exchange I met some amazing characters and friends for life. I was able to learn and immerse myself in the true American College experience. This type of opportunity was great for me as a person but also allowing me to become a better and more-rounded engineer.

CAMERON COSGROVE,  
MECHANICAL ENGINEERING STUDENT

The best thing about the exchange was the many outdoor activities, the very welcoming people and all the support you got from study advisers, GPS buddies and professors. I made great friends from all over the world who I hope to stay in contact with!

MAGDALENA GADERMAYER  
EXCHANGE TO SIMON FRASER  
UNIVERSITY, CANADA

A definite highlight of my time studying abroad at Curtin University in Western Australia was swimming alongside a whale shark in Coral Bay. The 1,200 km journey from Perth north to Ningaloo Reef was an incredible road-trip, topped off with this once in a lifetime experience. The whale shark was between eight and nine metres in length! Snorkelling beside the world's largest fish was the ultimate bucket list experience and one that I will never forget!

KIRSTY McALOON  
CURTIN UNIVERSITY,  
AUSTRALIA

”



## See the world and make new friends while studying for your degree.

As a Strathclyde student you have a unique opportunity to spend up to one year of your degree studying at one of our partner universities in Europe, North America, Australia, New Zealand, Hong Kong, Singapore and Japan.

Study abroad for either a full academic year or just one semester, opening the door to new experiences and new skills that will enhance your employment prospects. You will receive full academic credit for your year abroad, so there is no need to extend your studies. Various funding packages are available.



Follow our students' stories on Instagram @UniStrathclyde

# CAREERS

## WHAT'S NEXT?

From day one until graduation and beyond, we're here to help.

Whether you are looking for a part-time job, work placement or you want to take advantage of our summer volunteering opportunities, we can help you add value to your CV.

“

I chose to study at Strathclyde because it is one of the top business universities in the UK. When I saw their accreditation and how they were also one of the top entrepreneurial universities, it was something that really struck me because I feel like I'm a budding entrepreneur. I felt that this is something that I can relate to and this university would be a good platform for me where I could grow my entrepreneurial abilities.

ESTELLE FROM SINGAPORE  
UNDERGRADUATE FOUNDATION PROGRAMME  
BUSINESS AND SOCIAL STUDIES

My current employer hired me because of my degree from the Department of Design, Manufacture & Engineering Management. They recognised the wide skill set that I have and knew that I would be able to contribute to many parts of the business.

KERI CUMMINGS  
PRODUCT DESIGN & INNOVATION GRADUATE

The first thing that attracted me to Strathclyde was the funding opportunities; there are so many available. The second thing was the quality of research and the level of industrial engagement in Strathclyde especially in the Faculty of Engineering.

TOLULOPE IJITONA

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UK TOP 10 UNIVERSITY FOR GRADUATE EMPLOYMENT. OUR TECHNOLOGY AND INNOVATION CENTRE IS DESIGNED TO INCREASE OUR PARTNERSHIP WORKING. OUR CAREERS SERVICE IS RANKED IN THE UK TOP 4. 96.2% OF OUR 2015 GRADUATES WERE IN WORK OR STUDY 6 MONTHS AFTER GRADUATION. WE ARE RANKED 7TH IN THE UK FOR SPIN-OUT COMPANY CREATION.

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The Careers Service runs fairs throughout the year to assist you in finding part-time and temporary jobs as well as summer internships and graduate jobs. Some of our partnerships include:

- GlaxoSmithKline
- Rolls-Royce
- The Weir Group
- Babcock
- EDF Energy
- ScottishPower
- SSE
- Glasgow City Council
- Economic and Social Research Council
- Historic Scotland
- Innovate UK
- Cancer Research UK
- NHS
- MGB Biopharma
- Boeing
- Barnes Aerospace
- AstraZeneca



Clockwise from top: milling machine in the Engineering Academy; Strathclyde graduate Stefan Hunter, owner of IOLLA eyewear; Mechanical & Aerospace Engineering student, Daniel O'Brien prepares for a series of tests in the department's wind tunnel

# FACULTY OF ENGINEERING

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# WE HAVE ONE OF THE LARGEST INDUSTRY SCHOLARSHIP PORTFOLIOS OF ANY ENGINEERING FACULTY IN THE UK. SEVEN OF OUR ENGINEERING DEPARTMENTS ARE RANKED IN THE TOP 10 IN THE UK FOR RESEARCH POWER (RESEARCH EXCELLENCE FRAMEWORK 2014).

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**We are Scotland's largest Engineering Faculty with more than 4,000 undergraduate students from across the globe choosing to study engineering with us every year. All of our established undergraduate engineering programmes are fully accredited by the relevant professional engineering institutions, allowing you to distinguish yourself from the crowd in the UK and across the globe.**

With more than 40 courses to choose from, our flexible approach to study allows you to take classes from across the University, equipping you with the potential and skills to reach the highest levels in industry.

Our impressive multimillion-pound investment in engineering facilities gives students access to state-of-the-art equipment and work space in which to study. Almost 90% of our graduates are in work or further study within six months of graduating, with a large number of our engineering students securing jobs before they graduate.

Four-year BEng (Honours) programmes and five-year MEng (Master of Engineering) programmes are available. The first three

years of the MEng programmes usually match the Honours curriculum but the final two years involve advanced study and may include classes in areas such as law, business, leadership and management. Project work is also strongly emphasised. The MEng degree fulfils all of the educational requirements for Chartered Engineer status without further study after graduation.

Each year, more than 100 of our students spend a semester or an academic year abroad studying at a university in locations such as Europe, Canada, the USA, Mexico, Australia, Japan and Singapore.

Excellent links with many industrial partners ensure that our courses remain relevant and our students are equipped with appropriate skills when they graduate. With one of the largest undergraduate scholarship portfolios of any UK engineering faculty, our industry partners can offer you the opportunity to apply for scholarships and internships, which will enable you to get hands-on experience during your studies. Contributing organisations include BP, the Institution of Civil Engineers, Iberdrola, The Royal Academy of Engineering, The Lloyds Register Foundation and the Institution of Engineering and Technology.

# Aero-Mechanical Engineering

MEng (UCAS H421)/  
BEng Honours (UCAS H420)

Aero-mechanical engineering takes in aerospace systems and aircraft; it is also relevant in fields such as wind energy and long-span bridges.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** AAAAB (Maths A, Physics A)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1 entry: AAB-BBB (Maths, Physics); Year 2 entry: A\*AA-AAB (Maths, Physics)

**IB:** 36 (Maths HL6, Physics HL6)

### BEng Honours

**Highers:** AAAB (Maths A, Physics A)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1 entry: ABB-BBB; Year 2 entry: AAA-ABB (Maths, Physics)

**IB:** 32 (Maths HL5, Physics HL5)

### Additional Information

- Deferred entry is not accepted
- Applicants likely to be made an offer are normally invited to visit the Department between December and February

## RELATED COURSES

- Electrical & Mechanical Engineering (pg 39)
- Mechanical Engineering (pg 43)

## CONTACT

+44 (0)141 548 2892  
mae-ug@strath.ac.uk

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## Why Aero-Mechanical Engineering at Strathclyde?

- Learn how to design aircraft engines, control systems, landing gear and the many parts which sustain flight
- Opportunity to participate in the Formula Student competition to build and compete in a racing car
- Design and manufacture a remote-control scale aircraft
- Opportunity for hands-on flight experience
- Professional accreditation by the Institution of Mechanical Engineering and Royal Aeronautical Society
- Gain international experience through the opportunity to study abroad

---

## Your Studies

**Year 1:** topics include maths, mechanics, electrical circuits, heat and flow, mechanical engineering design, experimental laboratory skills

**Year 2:** you learn about flight and spaceflight, engineering mechanics, aero design and flight test, mathematical modelling and analysis, materials engineering and design; hands-on flight experience field course at a gliding school

**Year 3:** aeronautical topics such as designing and building of a remote-control scale aircraft and flight simulation studies, structural mechanics, dynamics and control; opportunity to study abroad

**Year 4:** individual aerospace-related project; classes in Engineering Materials Selection, Advanced Mechanics and Dynamics, and Aerodynamic Performance

**Year 5 (MEng only):** group project and choice of classes such as aerodynamic propulsion systems, machine dynamics, spaceflight mechanics, engineering plasticity and pressurised systems

## Your Career

Job titles of recent graduates include aero-dynamist, aerospace engineer, design engineer, nuclear graduate trainee and project engineer with employers such as Airbus, EnerMech, GE Caledonian, GE Oil and Gas, Highland Wood Energy, and Jaguar Land Rover.

# Architectural Studies

BSc Honours  
(UCAS K100)

Architects plan, design and construct buildings and structures, influencing the visual landscape and responding to the environment in our towns and cities.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** AAAB (English B, Maths or Physics B, Art or Art & Design B)

**A Levels:** Year 1 entry: ABB-BBB (Maths or Physics; GCSE Art & Design or Product Design B, GCSE English Language A or English Literature A); Year 2 entry: not offered

**IB:** 34 (English HL5, Maths HL5 or Physics HL5)

**HND:** Year 1 entry: HND Architectural Technology or Interior Design with AA in Graded Units; Year 2 entry: not offered

## Additional Information

- Deferred entry is accepted
- Candidates likely to fulfil the entry requirements may be asked to submit a portfolio which should contain examples of a range of work providing evidence to indicate creative and artistic ability

## CONTACT

+44 (0)141 548 3002  
architecture@strath.ac.uk

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## Why Architectural Studies at Strathclyde?

- Professionally accredited by the Architects Registration Board (ARB) and the Royal Institute of British Architects (RIBA)
- Years 1 - 3 study carries Part 1, ARB/RIBA accreditation
- Benefit from teaching by our academics and professional architects and engineers
- Study abroad for one semester and convert your degree title to Architectural Studies with International Study
- Focus on the design of buildings, towns and cities and the historical and theoretical ideas that inspire them

---

## Your Studies

**Year 1:** introduces the architectural design process, from initial concepts through design development to realisation and construction; project to design your first building, supported by classes in technology and cultural studies

**Year 2:** further project work in a Scottish context; cultural and technology classes

**Year 3:** urban housing design project and thesis; preparation of digital portfolio required for professional accreditation; opportunity to study abroad; at the end of Year 3, it is recommended that you gain experience by working for a year in an architectural practice under the supervision of an experienced ARB-registered mentor in the UK or abroad

**Year 4:** projects to design complex, multifunctional urban buildings; dissertation

## Your Career

Areas of employment for our recent graduates include multidisciplinary architectural practices, the creative industries, model making – physical and virtual, project management, theatre and stage set design, and the film and music industry. Graduates have also undertaken research roles in the energy and low carbon industries.



“

Studying in Gothenburg, Sweden in my third year was a highlight during my course. Having the opportunity to live and study in such an amazing city was inspiring. A year's work placement in Newcastle prepared me for a successful Honours year when I won a Glasgow Institute of Architects commendation for my project.

ANNABELLE BRADING  
ARCHITECTURAL STUDIES

”

# Biomedical Engineering

MEng (UCAS B831)/  
BEng Honours (UCAS B830)

Develop new medical technologies and techniques which transform and improve the lives of patients.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers: AAAA** (Maths A, Physics A, Biology Higher B or National 5 A recommended)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1 entry: **AAB-BBB**; Year 2 entry: **A\*AA-AAB** (Maths, Physics, GCSE Biology A recommended)

**IB: 34** (Maths HL5, Physics HL5)

### BEng Honours

**Highers: AAAB** (Maths A, Physics A, Biology Higher B or National 5 A recommended)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths, Physics, GCSE Biology A recommended)

**IB: 32** (Maths HL5/SL6, Physics HL5/SL6)

### Additional Information

- Deferred entry is accepted

## RELATED COURSE

- Prosthetics & Orthotics (pg 51)

## CONTACT

+44 (0)141 548 5703  
biomedeng-ug-admissions@strath.ac.uk

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## Why Biomedical Engineering at Strathclyde?

- Gain training in biomedical engineering as well as core mechanical and electrical engineering subjects
- Blood salvage technology developed by Strathclyde bioengineers is in use around the world
- Study in the Department ranked third in the UK for Medical Technology (Complete University Guide 2017)
- Benefit from state-of-the-art technology in one of the longest-established such departments in the world
- Prepare for a wide range of career opportunities in industry, academia, hospitals and government agencies

---

## Your Studies

**Year 1:** classes include maths, mechanical engineering, electrical engineering, anatomy, physiology and cell biology

**Year 2:** topics include engineering mechanics, materials, electronics and cell biology

**Year 3:** biomechanics, biomedical materials, immunology, instrumentation and microcontrollers and physiology

**Year 4:** individual research project and classes in biomedical instrumentation and electronics, plus a choice from a wide list of options

**Year 5 (MEng only):** group project and choice of classes such as tissue mechanics, clinical and sports biomechanics, and cardiovascular devices

## Your Career

Biomedical Engineering graduates can be found in areas such as education, research and development, medical device regulations, medical device sales, management, consulting, design and technology.

# Chemical Engineering

MEng (UCAS H801)/  
BEng Honours (UCAS H800)

Chemical engineers are involved in the industrial processes to turn raw materials into our everyday products.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers: AAAAB** (Maths A, Chemistry B, Physics B)

**A Levels:** Year 1 entry: **AAB-BBB**; Year 2 entry: **A\*AA-AAB** (Maths, Chemistry, Physics)

**IB: 36** (Maths HL6, Chemistry HL5, Physics HL5)

### BEng Honours

**Highers: AAAB** (Maths A, Chemistry B, Physics B)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths, Chemistry, Physics)

**IB: 32** (Maths HL6, Chemistry HL5, Physics HL5)

## Additional Information

- Deferred entry is accepted

## BEng (Honours)/MEng Chemical Engineering by Distance Learning

**HNC/HND** in Chemical Engineering or a degree in a related discipline plus relevant work experience; other qualifications may be considered

## CONTACT

+44 (0)141 574 5306  
chemeng-ug-admissions@strath.ac.uk  
(full-time)  
chemeng-dl-admissions@strath.ac.uk  
(distance learning)

---

## Why Chemical Engineering at Strathclyde?

- Our Department of Chemical Engineering is in the UK top 10 in the Complete University Guide 2017
- Industry-sponsored scholarship opportunities
- Study abroad in Europe, the USA, Australia, Canada and South East Asia
- Opportunity to undertake your final-year project or summer internships in industry
- Study in one of the largest such departments in the UK
- Professional accreditation by the Institution of Chemical Engineers

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## Your Studies

**Year 1:** basic principles of chemical engineering, maths and chemistry

**Year 2:** you learn about process analysis and statistics, fluid flow and heat transfer, thermodynamics and chemical principles and safety; chemical engineering lab work

**Year 3:** topics include reactors, biochemical engineering, materials and processes, sustainability and economics, lab work continues

**Year 4:** particle technology, multiphase systems, process control, environmental technology; chemical engineering design project

**Year 5 (MEng only):** advanced topics include modern process measurements, safety management, programming and optimisation, molecular simulation and petroleum engineering; project with industry or research placement

## Your Career

Some of our graduates have gone on to work in roles such as petroleum engineer, polymer scientist, process engineer, surface operations engineer, graduate commissioning engineer and technical support engineer. Recent employers include BP, Essar Oil, GlaxoSmithKline, Glenmorangie, Marathon Oil Corporation and Sabic.

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The reputation of the Faculty of Engineering at Strathclyde made choosing to study here an easy decision and a degree in Chemical Engineering provides career options in a range of industries. Starting university can be quite daunting but staying in student halls and getting involved in clubs and societies is the best way to meet people and make new friends.

GREGOR VINCENT  
CHEMICAL ENGINEERING

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Strathclyde's links with industry and employers and the professional accreditation of the course made this the ideal university for me. I have an Institution of Civil Engineers QUEST scholarship associated with a consultancy firm, which is a career area I'd like to pursue in future. Visits to construction sites are a valuable insight into working in the industry.

EILIDH SNEDDON  
CIVIL ENGINEERING

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”

# Civil Engineering

MEng (UCAS H202/  
BEng Honours (UCAS H200)

Civil Engineers plan, design, construct and operate the infrastructure on which our society depends such as roads, bridges and tall buildings.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** AAAA (Maths and Physics/  
Engineering Science or Chemistry)

**A Levels:** Year 1 entry: **AAB-BBB**; Year 2 entry:  
**A\*AA-AAB** (Maths, Physics or Engineering  
Science)

**IB:** 36 (Maths HL5, Physics or Engineering  
Science HL5)

**HNC/HND:** entry to BEng in the first instance

### BEng Honours

**Highers:** AAAB (Maths and Physics/  
Engineering Science)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry:  
**ABB-BBB** (Maths, Physics or Engineering  
Science)

**IB:** 32 (Maths HL5, Physics or Engineering  
Science HL5)

**HNC/HND:** Year 1 entry: HNC Civil Engineering,  
Structural Engineering or Construction  
Engineering with A in Graded Unit and pass  
in Maths for Construction; Year 2 entry: HND,  
subjects as for HNC, with BA in Graded Units  
and pass in Maths for Construction

### Additional Information

- Deferred entry is accepted

## RELATED COURSE

- Civil & Environmental Engineering (pg 34)

## CONTACT

+44 (0)141 548 3277  
civeng-admissions@strath.ac.uk

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## Why Civil Engineering at Strathclyde?

- Learn how civil engineering leads to life-changing construction and development
- Study in the only Civil & Environmental Engineering department in Scotland, and one of only three in the UK, to hold an Athena SWAN Silver award
- Professional accreditation by the Institution of Civil Engineers, the Institution of Structural Engineers and the Chartered Institution of Highways and Transportation
- Opportunity to take part in our mentoring scheme involving graduate engineers and supporting companies

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## Your Studies

**Year 1:** topics include maths, civil engineering design, structural mechanics and materials, engineering geology and soil mechanics

**Year 2:** you learn about land surveying and mapping, hydraulics and hydrology, chemistry and materials science

**Year 3:** concepts in water engineering and hydrology, maths for engineering, geotechnical design, analysis and design of transport systems; opportunity to study abroad

**Year 4:** structural engineering, water treatment and wastewater treatment processes, project planning and individual research project

**Year 5 (MEng only):** design and project work and topics in business and management, environment and sustainability; opportunity to study abroad if not taken in Year 3

## Your Career

Recent employers of graduates include AECOM, Babcock International, Iberdrola, Scottish Water and Wood Group.

# Civil & Environmental Engineering

MEng (UCAS H290)/  
BEng Honours (UCAS H291)

Civil and Environmental Engineering are central to solving problems of air and water pollution.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** AAAA (Maths and Physics/ Engineering Science or Chemistry)

**A Levels:** Year 1 entry: **AAB-BBB**; Year 2 entry: **A\*AA-AAB** (Maths, Physics or Engineering Science or Chemistry)

**IB:** **36** (Maths HL5, Physics or Engineering Science or Chemistry HL5)

**HNC/HND:** entry to BEng in the first instance

### BEng Honours

**Highers:** AAAB (Maths and Physics/ Engineering Science; Chemistry recommended)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths B, Physics or Engineering Science or Chemistry B)

**IB:** **32** (Maths HL5, Physics or Engineering Science or Chemistry HL5)

**HNC/HND:** Year 1 entry: HNC Civil Engineering, Structural Engineering or Construction Engineering with A in Graded Unit and pass in Maths for Construction; Year 2 entry: HND, subjects as for HNC, with BA in Graded Units and pass in Maths for Construction

### Additional Information

- Deferred entry is accepted

## RELATED COURSE

- Civil Engineering (pg 33)

## CONTACT

+44 (0)141 548 3277  
civeng-admissions@strath.ac.uk

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## Why Civil & Environmental Engineering at Strathclyde?

- Learn about the main aspects of environmental engineering, such as water and waste water treatment and land remediation
- Study abroad opportunities in Year 3 or Year 5
- Gain practical skills in our state-of-the-art research and teaching labs
- Undertake project work supported by our industry partners
- Professional accreditation by the Institution of Civil Engineers, the Institution of Structural Engineers and the Chartered Institution of Highways and Transportation

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## Your Studies

**Year 1:** topics include maths, civil engineering design, structural mechanics and materials, engineering geology and soil mechanics

**Year 2:** you learn about land surveying and mapping, hydraulics and hydrology, chemistry and materials science

**Year 3:** concepts in water engineering and hydrology, maths for engineering, geotechnical design, analysis and design of transport systems; opportunity to study abroad

**Year 4:** design of geotechnical structures, solid waste management and contaminated land, project planning and individual research project

**Year 5 (MEng only):** design and project work and topics in business and management, environment and sustainability; opportunity to study abroad if not taken in Year 3

## Your Career

Recent employers of graduates include Atkins Global, Laing O'Rourke, Jacobs UK Ltd, Mott MacDonald, and Royal Boskalis Westminster.

“

I have come from Greece to study in Scotland and the University is preparing me for a career as a civil engineer by combining studies with work experience. The University Careers Service has helped me with my CV and provided information about job opportunities. As an international student a part-time job is a great way to socialise.

STAVROS BOUTSIKOS  
CIVIL ENGINEERING

”



# Computer & Electronic Systems

MEng (UCAS GHK6)/  
BEng Honours (UCAS GH46)

From drones to the ‘Internet of Things’, the world needs engineers with skills in both electronics and software.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

MEng/... with International Study (UCAS I200)

**Highers: AAAAB** (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: **AAB-BBB** (Maths, Physics); Year 2 entry: **A\*AA-AAB** (Maths, Physics, Computing)

**IB: 36** (Maths HL6, Physics HL6)

**HNC/HND:** entry to BEng in first instance

## BEng Honours

**Highers: AAAB** (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths, Physics); Year 2 entry: **AAA-ABB** (Maths, Physics, Computing)

**IB: 32** (Maths HL5, Physics HL5)

**HNC/HND:** Year 1 entry: relevant HNC, Engineering Maths 1 - 3, Graded Unit A; Year 2 entry: relevant HND, Engineering Maths 1 - 4, High Level Engineering Software, Analogue Electronic Principles, Combinational Logic, Sequential Logic, AA in Graded Units 1 & 2

## Additional Information

- Deferred entry is not accepted
- Applicant interviews are conducted in January and February

## RELATED COURSES

- Electrical & Mechanical Engineering (pg 39)
- Electrical Energy Systems (pg 37)
- Electronic & Digital Systems (pg 42)
- Electronic & Electrical Engineering (pg 40)

## CONTACT

+44 (0)141 548 2471  
eee-ugadmissions@strath.ac.uk

## Why Computer & Electronic Systems at Strathclyde?

- Learn how to design electronic systems and use software engineering to develop the computerised technology needed for our digital future
- Professional accreditation by the Institution of Engineering and Technology, Engineering Council and British Computer Society means you can become a Chartered Engineer, IT Specialist or both
- Scholarship programme with paid industrial work placements, including the IET Power Academy
- Gain international experience through studying abroad

## Your Studies

**Year 1:** electronic circuits, maths, computer science and software engineering; practical labs and project work introduce design and build activities

**Year 2:** you learn a range of programming languages (Java, C++, C, Ruby, Python), computer communications, engineering design techniques, and hardware and software analysis

**Year 3:** specialist topics such as artificial intelligence, embedded systems and computing architectures

**Year 4:** individual design project in your chosen specialism and choice of classes including digital forensics, laser systems and information security; year abroad for those on the MEng International Study stream

**Year 5 (MEng only):** group design project to develop a prototype system to showcase at the end-of-year industry exhibition; choice of advanced topics including computer security, E-commerce and video processing

## Your Career

The course has the highest graduate employment of any discipline – 100% for the last three years. Hardware and software jobs exist in sectors such as e-commerce, IT, the automotive industry and cyber-security. Recent graduates include Applications Developer, Amazon; Software Engineer, GE Aviation; Electronics Engineer, Infiniti Red Bull Racing; Systems Analyst, Thales; and Graduate Engineer, GCHQ.

# Electrical Energy Systems

MEng  
(UCAS H630)

One of society's biggest challenges is how to produce reliable energy supplies to meet demand, with minimal impact on our environment.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** AAAAB (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: AAB-BBB (Maths, Physics); Year 2 entry: A\*AA-AAB (Maths, Physics, Computer Science)

**IB:** 36 (Maths HL6, Physics HL6)

## Additional Information

- Deferred entry is not accepted
- Applicant interviews are conducted in January and February

## RELATED COURSES

- Computer & Electronic Systems (pg 36)
- Electrical & Mechanical Engineering (pg 39)
- Electronic & Digital Systems (pg 42)
- Electronic & Electrical Engineering (pg 40)

## CONTACT

+44 (0)141 548 2471  
eee-ugadmissions@strath.ac.uk

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## Why Electrical Energy Systems at Strathclyde?

- Learn about electrical, renewable and carbon-neutral energy sources, and the applications of electrical power
- Opportunity to take part in our solar energy international development projects in Africa
- Scholarship programme with paid industrial work placements, including the IET Power Academy
- Gain international experience through studying abroad
- Professional accreditation by the Institution of Engineering and Technology

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## Your Studies

**Year 1:** electronics, electrical and engineering science, maths, and computing; practical labs and project work introduce design and build activities

**Year 2:** energy design projects; topics including electrical systems analysis, electrical techniques and physical electronics

**Year 3:** you develop power systems expertise, with classes in instrumentation, renewable energy technologies and engineering innovation

**Year 4:** tailor your degree with an individual design project and classes in electrical power, clean energy technology and smart-grids; option to study abroad

**Year 5:** group design project to build a prototype system to showcase at the end-of-year industry exhibition; choice of advanced topics including power systems protection, asset management and control

## Your Career

Graduates are in demand in the high-growth energy sector, as well as in the infrastructure industries, engineering consultancy and defence. Recent job titles and employers include Electrical Engineer, ScottishPower; Transmission Engineer, National Grid; Control Engineer, SSE Renewables; Smart Grid Specialist, Aker Solutions; and Power Engineer, WSP Parsons Brinckerhoff.

“

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I hope to pursue a career which focuses on project management within the energy sector. My interdisciplinary degree, accredited by two professional bodies, will equip me with the technical and transferable practical skills to address challenges in both disciplines.

MARNIE MCKAY  
ELECTRICAL & MECHANICAL ENGINEERING  
WITH INTERNATIONAL STUDY

”



# Electrical & Mechanical Engineering

MEng (UCAS HH6H)/  
BEng Honours (UCAS HH63)

Mechanical, electrical, computing and control elements are key to all engineering systems.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**MEng/... with International Study (UCAS H3H6)**

**Highers: AAAAB** (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: **AAB-BBB** (Maths, Physics); Year 2 entry: **A\*AA-AAB** (Maths, Physics, Computer Science)

**IB: 36** (Maths HL6, Physics HL6)

**HNC/HND:** entry to BEng in first instance

## BEng Honours

**Highers: AAAB** (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths, Physics); Year 2 entry: **AAA-ABB** (Maths, Physics, Computer Science)

**IB: 32** (Maths HL5, Physics HL5)

**HNC/HND:** Year 1 entry: relevant HNC, Engineering Maths 1 - 3, Graded Unit A; Year 2 entry: relevant HND, Engineering Maths 1 - 4, High Level Engineering Software, Analogue Electronic Principles, Combinational Logic, Sequential Logic, AA in Graded Units 1 & 2

## Additional Information

- Deferred entry is not accepted
- Applicant interviews are conducted in January and February

## RELATED COURSES

- Computer & Electronic Systems (pg 36)
- Electrical Energy Systems (pg 37)
- Electronic & Digital Systems (pg 42)
- Electronic & Electrical Engineering (pg 40)

## CONTACT

+44 (0)141 548 2471  
eee-ugadmissions@strath.ac.uk

## Why Electrical & Mechanical Engineering at Strathclyde?

- Develop expertise in mechanical, electrical, software and control systems engineering
- Opportunity to participate in the Formula Student competition to build a racing car
- Gain international experience through studying abroad
- Scholarship programme with paid industrial work placements, including the IET Power Academy
- Professional accreditation by the Institution of Engineering and Technology, and Institution of Mechanical Engineers

## Your Studies

**Year 1:** maths, electronics, electrical engineering, mechanics, and engineering modelling; practical labs and project work introduce design and build activities

**Year 2:** you learn about electromagnetism, digital electronics, and mechanics to develop core engineering skills

**Year 3:** specialist topics include instrumentation and microcontrollers, dynamics, and integrated design of mechanical systems

**Year 4:** individual design project in your chosen specialism and technical subjects including systems engineering, communications networks, and flight and spacecraft; year abroad for those on the MEng International Study stream

**Year 5 (MEng only):** group design project to build a prototype system to showcase at the end-of-year industry exhibition; choice of advanced topics including machinery diagnosis, aerodynamic performance and control techniques

## Your Career

Opportunities exist in the aerospace and automotive industries, and in the energy, consultancy, and oil and gas sectors. Examples include Electrical Engineer, Rolls-Royce; Subsea Engineer, Nexen Petroleum; Mechanical Engineer, Jaguar Land Rover; Graduate Engineer, Arup, and Generator Engineer, Siemens.

# Electronic & Electrical Engineering

MEng (UCAS H601)/  
BEng Honours (UCAS H600)

From clean energy to cyber-security, electronic and electrical engineers design the technology and systems that support society.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

MEng/... with Business Studies (UCAS H6N1)/  
... with International Study (UCAS H6L2)

Highers: **AAAAB** (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: **AAB-BBB** (Maths, Physics); Year 2 entry: **A\*AA-AAB** (Maths, Physics, Computer Science)

**IB:** **36** (Maths HL6, Physics HL6)

**HNC/HND:** entry to BEng in first instance

## BEng Honours

Highers: **AAAB** (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths, Physics); Year 2 entry: **AAA-ABB** (Maths, Physics, Computer Science)

**IB:** **32** (Maths HL5, Physics HL5)

**HNC/HND:** Year 1 entry: relevant HNC, Engineering Maths 1 - 3, Graded Unit A; Year 2 entry: relevant HND, Engineering Maths 1 - 4, High Level Engineering Software, Analogue Electronic Principles, Combinational Logic, Sequential Logic, AA in Graded Units 1 & 2

## Additional Information

- Deferred entry is not accepted
- Applicant interviews are conducted in January and February

## RELATED COURSES

- Computer & Electronic Systems (pg 36)
- Electrical & Mechanical Engineering (pg 39)
- Electrical Energy Systems (pg 37)
- Electronic & Digital Systems (pg 42)

## CONTACT

+44 (0)141 548 2471  
eee-ugadmissions@strath.ac.uk

## Why Electronic & Electrical Engineering at Strathclyde?

- We achieve 95% graduate employment rates
- Technical projects linked to engineering companies and international research activities
- Industry-supported scholarship and work placement programme including the IET Power Academy
- Gain international experience by studying abroad or participating in our solar energy development projects in Africa
- Professional accreditation by the Institution of Engineering and Technology

## Your Studies

**Year 1:** electronics, electrical engineering, analogue and digital circuits, maths and computing; business management classes integrated each year for those on the Business Studies stream; practical labs and project work introduce design and build activities

**Year 2:** topics such as digital electronics, electromagnetism, and engineering design and manufacture develop core engineering skills

**Year 3:** specialist subjects in signals and communications systems, engineering innovation, and digital technology design

**Year 4:** individual design project in your chosen specialism and selection of classes including multimedia systems, power electronics and robotics; year abroad for those on the MEng International Study stream

**Year 5 (MEng only):** group design project to build a prototype system to showcase at the end-of-year industry exhibition; choice of advanced topics including renewable energy technologies, digital communications and embedded systems

## Your Career

Graduates gain professional positions in a wide range of sectors. Recent examples include Electrical Engineer, ScottishPower; Electronics Engineer, BAE Systems; Software Engineer, Barclays Bank; Technology Analyst, Morgan Stanley; and Measurements Engineer, BP.



“

I am originally from Latvia and the Strathclyde community is welcoming to international students. I hope to build a career in the engineering industry, and my course is providing theoretical knowledge, hands-on experience and networking opportunities necessary to succeed in this field.

TAISIJA TREIKALE  
ELECTRONIC & ELECTRICAL ENGINEERING

”

# Electronic & Digital Systems

MEng  
(UCAS H690)

Electronic and digital technology is transforming how we live, work and play. Developing skills in this area will widen your career choices.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** AAAAB (Maths A, Physics or Engineering Science)

**A Levels:** Year 1 entry: AAB-BBB (Maths, Physics); Year 2 entry: A\*AA-AAB (Maths, Physics, Computer Science)

**IB:** 36 (Maths HL6, Physics HL6)

## Additional Information

- Deferred entry is not accepted
- Applicant interviews are conducted in January and February

## RELATED COURSES

- Computer & Electronic Systems (pg 36)
- Electrical & Mechanical Engineering (pg 39)
- Electrical Energy Systems (pg 37)
- Electronic & Electrical Engineering (pg 40)

## CONTACT

+44 (0)141 548 2471  
eee-ugadmissions@strath.ac.uk

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## Why Electronic & Digital Systems at Strathclyde?

- Technical projects linked to digital electronics companies
- Learn how to design the digital systems that underpin and enable wireless, mobile and satellite communications, the internet, and audio, video and modern embedded computing systems
- Scholarship programme with paid industrial work placements, including the IET Power Academy
- Gain international experience by studying abroad
- Professional accreditation by the Institution of Engineering and Technology

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## Your Studies

**Year 1:** analogue and digital circuits, maths, electronics and processing systems; practical labs and project work introduce design and build activities

**Year 2:** concepts in signal processing, digital systems, physical electronics, and wireless communications

**Year 3:** specialist topics including signals and communications systems, microcontrollers, and digital electronics

**Year 4:** tailor your degree with an individual design project and choice of classes including communications networks, multimedia systems and information security; option to study abroad

**Year 5:** group design project to build a prototype system to showcase at the end-of-year industry exhibition; choice of advanced topics including robotics, digital systems design, and image processing

## Your Career

Opportunities exist in international brands such as Nokia, Samsung and BT, and chip and system solutions companies such as Siemens and Xilinx. The Scottish electronics market, with Wolfson Microelectronics, Linn Products and Selex ES, also offers great career prospects. Recent examples include IT Specialist, Samsung; Systems Engineer, Xilinx; and Electronics Engineer, Clyde Space.

# Mechanical Engineering

MEng (UCAS H302)/  
BEng Honours (UCAS H300)

Mechanical engineers conceive, design and put into operation devices, machines, engines and energy systems.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

MEng/... with Aeronautics (UCAS H3H4)/  
... with Financial Management (UCAS H3N3)/  
... with International Study (UCAS H304)/  
... with Materials Engineering (UCAS H3J2)

Highers: **AAAAB** (Maths A, Physics A)

Advanced Highers: Maths and Physics recommended

A Levels: Year 1 entry: **AAB-BBB** (Maths, Physics); Year 2 entry: **A\*AA-AAB** (Maths, Physics)

IB: **36** (Maths HL6, Physics HL6)

BEng Honours/... with International Study (UCAS H303)

Highers: **AAAB** (Maths A, Physics A)

Advanced Highers: Maths and Physics recommended

A Levels: Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths, Physics)

IB: **32** (Maths HL5, Physics HL5)

## Additional Information

- Deferred entry is not accepted
- Applicants likely to be made an offer are normally invited to visit the Department between December and February

## RELATED COURSES

- Aero-Mechanical Engineering (pg 26)
- Electrical & Mechanical Engineering (pg 39)

## CONTACT

+44 (0)141 548 2892  
mae-ug@strath.ac.uk

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## Why Mechanical Engineering at Strathclyde?

- The Department of Mechanical & Aerospace Engineering is targeted annually for graduate recruitment by more than 60 companies, enhancing your career prospects
- Opportunity to choose from specialised options
- Professional accreditation by the Institution of Mechanical Engineers
- Access to industry scholarships
- Option to study abroad
- Opportunity to participate in Formula Student, the national competition to build a racing car

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## Your Studies

**Year 1:** maths, software for engineers, experimental and lab skills, thermodynamics and fluid mechanics, electronics, mechanical engineering design

**Year 2:** core engineering subjects, applied maths and information technology, dynamics and control, structural mechanics and materials

**Year 3:** design exercises and classes in engineering science; study abroad opportunities

**Year 4:** individual project; classes appropriate to your degree specialism

**Year 5 (MEng only):** group project; study abroad opportunity if not taken in Year 3; specialist topics such as spaceflight systems, engineering plasticity, aerodynamics, pressurised systems, and machinery diagnosis

## Your Career

Employers of recent graduates include Airbus, Aker Subsea Ltd, BAE Systems, EDF Energy, Network Rail, Rolls-Royce and Siemens.

# Naval Architecture & Marine Engineering

MEng (UCAS HJ56)/  
BEng Honours (UCAS JH65)

Naval architects and marine engineers deal with the world's most powerful vehicles and largest moving structures.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** AAAA/AAAB (Maths A, Physics B and/or Engineering Science B)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1: BEng entry only; Year 2: A\*AA-AAB (Maths, Physics)

**IB:** 36 (Maths HL6, Physics HL6)

**HNC/HND:** entry to BEng in the first instance

### BEng Honours

**Highers:** AAAB or AABBB (Maths, Physics, and/or Engineering Science AB/BA)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1: ABB-BBB (Maths, Physics); Year 2: AAA-ABB (Maths, Physics)

**IB:** 32 (Maths HL5, Physics HL5)

**HNC/HND:** Year 1 entry: pass a relevant HNC, A in Graded Unit 1; Year 2 entry: pass a relevant HND, AA in Graded Units 1 & 2; contact us before applying

### Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Naval Architecture with High Performance Marine Vehicles (pg 45)
- Naval Architecture with Ocean Engineering (pg 47)

## CONTACT

+44 (0)141 548 4098  
naome-ug@strath.ac.uk

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## Why Naval Architecture & Marine Engineering at Strathclyde?

- Facilities include the largest university wave testing tank in the UK
- Opportunity to use our 33-foot racing yacht
- International work placement opportunities
- Access to sponsorship and scholarships
- Professional accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology
- Gain skills to tackle engineering challenges on a range of marine vehicles

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## Your Studies

**Years 1:** engineering mechanics, maths, computing and introduction to naval architecture and marine engineering; group project to design, build and test a container ship

**Year 2:** focus on flotation, stability and safety of ships, marine design and production; group project to build a radio-controlled sailing yacht and a wave energy device

**Year 3:** topics include resistance, propulsion and strength of ships, marine design, principles of marine machinery, and marine business and management; individual project to design a ship

**Year 4:** individual project on a topic of your choice; classes covering marine machinery, power and electrical systems, as well as state-of-the-art tools for predicting fluid flow around ships and the strength of ship structures

**Year 5 (MEng only):** group design project; further specialist technical and management classes

## Your Career

Career opportunities exist in areas such as ship and offshore design, technical consultancy, ship safety, and ship operation and management.

# Naval Architecture with High Performance Marine Vehicles

MEng (UCAS H521)/  
BEng Honours (UCAS H520)

Marine vehicles use advanced materials and technology to become lighter, faster, greener and safer.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** AAAA or AAABB (Maths A, Physics B and/or Engineering Science B)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1: BEng entry only; Year 2: A\*AA-AAB (Maths, Physics)

**IB:** 36 (Maths HL6, Physics HL6)

**HNC/HND:** entry to BEng in the first instance

### BEng Honours

**Highers:** AAAB or AABBB (Maths, Physics, and/or Engineering Science AB/BA)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1: ABB-BBB (Maths, Physics); Year 2: AAA-ABB (Maths, Physics)

**IB:** 32 (Maths HL5, Physics HL5)

**HNC/HND:** Year 1 entry: pass a relevant HNC, A in Graded Unit 1; Year 2 entry: pass a relevant HND, AA in Graded Units 1 & 2; contact us before applying

### Additional Information

- Deferred entry is accepted

### RELATED COURSES

- Naval Architecture & Marine Engineering (pg 44)
- Naval Architecture with Ocean Engineering (pg 47)

### CONTACT

+44 (0)141 548 4098  
naome-ug@strath.ac.uk

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## Why Naval Architecture with High Performance Marine Vehicles at Strathclyde?

- Professional accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology
- Facilities include the largest university wave testing tank in the UK
- Our students have use of the Department's 33-foot racing yacht
- International work placement opportunities
- Access to sponsorship and scholarships
- Learn to design, build and operate marine vehicles

---

## Your Studies

**Year 1:** maths, engineering mechanics, marine design, introduction to naval architecture and marine engineering; group project to design, build and test a container ship

**Year 2:** focus on flotation, stability and safety of ships, marine design and production; group project to build a radio-controlled sailing yacht and a wave energy device

**Year 3:** topics cover resistance and propulsion of ships, marine engineering, design of marine structures, yacht and powercraft design; individual project to design a ship

**Year 4:** an individual project on a topic of your choice; classes covering high performance sailing yachts, and high-speed ships as well as state-of-the-art tools for predicting fluid flow around ships and the strength of ship structures

**Year 5 (MEng only):** group design project; further specialist technical and management classes

## Your Career

Employers of recent graduates include Aker Solutions Ltd, Babcock, BMT Defence Services, BP, GL Noble Denton and Lloyd's Register.



“

I would highly recommend studying abroad. I was lucky enough to receive a scholarship, which enabled me to study in Norway for a year. Living in another country was an enriching experience during which I met many great people and visited amazing places.

ROSANNA WATSON  
NAVAL ARCHITECTURE WITH HIGH  
PERFORMANCE MARINE VEHICLES

”

# Naval Architecture with Ocean Engineering

MEng (UCAS H513)/  
BEng Honours (UCAS H512)

Ocean Engineering deals with structures and systems related to ocean resources, including oil and gas, and renewable energy.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** AAAA or AAABB (Maths A, Physics B and/or Engineering Science B)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1: BEng entry only; Year 2: A\*AA-AAB (Maths, Physics)

**IB:** 36 (Maths HL6, Physics HL6)

**HNC/HND:** entry to BEng in the first instance

### BEng Honours

**Highers:** AAAB or AABBB (Maths, Physics, and/or Engineering Science AB/BA)

**Advanced Highers:** Maths and Physics recommended

**A Levels:** Year 1: ABB-BBB (Maths, Physics); Year 2: AAA-ABB (Maths, Physics)

**IB:** 32 (Maths HL5, Physics HL5)

**HNC/HND:** Year 1 entry: pass a relevant HNC, A in Graded Unit 1; Year 2 entry: pass a relevant HND, AA in Graded Units 1 & 2; contact us before applying

### Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Naval Architecture & Marine Engineering (pg 44)
- Naval Architecture with High Performance Marine Vehicles (pg 45)

## CONTACT

+44 (0)141 548 4098  
naome-ug@strath.ac.uk

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## Why Naval Architecture with Ocean Engineering at Strathclyde?

- Facilities include the largest university wave testing tank in the UK
- Opportunity to use the Department's 33-foot racing yacht
- Benefit from international work placement opportunities
- Access to sponsorship and scholarships
- Professional accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology
- Study topics such as subsea engineering, risk management and reliability analysis.

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## Your Studies

**Year 1:** maths, engineering mechanics, marine design, introduction to naval architecture and marine engineering; group project to design, build and test a container ship

**Year 2:** focus on hydrostatics and stability of marine vehicles, marine design and production; group project to build a radio-controlled sailing yacht and a wave energy device

**Year 3:** topics cover resistance and propulsion of ships, marine engineering, design of marine structures, offshore oil and gas production systems; individual project to design a ship

**Year 4:** an individual project on a topic of your choice; classes covering dynamics of offshore structures, and structural reliability as well as state-of-the-art tools for predicting fluid flow around ships and the strength of marine structures

**Year 5 (MEng only):** group design project; further specialist technical and management classes

## Your Career

Job titles of recent graduates include Ocean Engineer, Subsea Engineer, Marine Surveyor and Offshore Renewables Engineer.

# Product Design & Innovation

BSc Honours  
(UCAS W240)

Creative, analytical and practical skills all contribute to the design and development of ideas into innovative products.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** AAAB (Maths or Physics or Engineering Science)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths or Physics or Design & Technology)

**IB:** 34 (Maths HL5 or Physics HL5)

A Level Art & Design or Design & Manufacture/Graphic Communication at Higher or HL recommended

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit; Year 2 entry: relevant HND, AAA in Graded Units

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Product Design Engineering (pg 49)
- Production Engineering & Management (pg 50)
- Sports Engineering (pg 52)

## CONTACT

+44 (0)141 548 2839  
ug@dmem.strath.ac.uk

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## Why Product Design & Innovation at Strathclyde?

- Learn how to develop new and innovative technology products for the global marketplace
- Work with cutting-edge design and making technologies including 3D digital design and 3D printing
- Gain skills and knowledge in design, making, creativity, innovation, technical analysis and communication
- Professional accreditation by the Institution of Engineering Designers and Institution of Engineering and Technology
- Undertake summer placements in industry
- Study abroad options include Australia and Singapore

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## Your Studies

**Year 1:** engage with design studio and classes in innovation and entrepreneurship, technology and production management

**Year 2:** further your design studio learning and take classes in technology manufacturing and design prototyping

**Year 3:** advance your skills in creative, conceptual and user-centered design and experience new design methods, technologies and portfolio preparation; opportunity to spend a semester or year studying abroad in locations such as Australia, USA, Scandinavia and Singapore; pursue a summer industrial placement

**Year 4:** develop your individual approach to design through your final-year design project and team-based design project with industry and advance your technology and innovation skills

## Your Career

Gain access to an outstanding career in design and innovation. Our graduates are positioned in world-leading firms such as Apple, Dyson, Google, Hasbro, HTC, i4 Product Design, Jaguar Land Rover, PA Consulting, Shore Design, Tesla and 4c Design.

# Product Design Engineering

MEng (UCAS H770)/  
BEng Honours (UCAS H771)

Turn basic ideas into functioning products, using ergonomics and graphic communications.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers: AAAA** (Maths, and Physics or Engineering Science)

**A Levels:** Year 1 entry: **AAB-BBB**; Year 2 entry: **A\*AA-AAB** (Maths, Physics)

**IB: 36** (Maths HL5, Physics HL5)

A Level Art & Design or Design & Manufacture/Graphic Communication at Higher or HL recommended

**HNC/HND:** offers entry to BEng in the first instance; contact us

### BEng Honours

**Highers: AAAB** (Maths, and Physics or Engineering Science)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths, Physics)

**IB: 34** (Maths HL5, Physics HL5)

Art & Design, Design & Manufacture or Graphic Communication at Higher or HL recommended

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit; Year 2 entry: relevant HND, AAA in Graded Units

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Product Design & Innovation (pg 48)
- Production Engineering & Management (pg 50)
- Sports Engineering (pg 52)

## CONTACT

+44 (0)141 548 2839  
ug@dmem.strath.ac.uk

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## Why Product Design Engineering at Strathclyde?

- Develop the skills to create fully-functioning new products which look good and offer value for money
- Learn to combine virtual and physical design and prototyping in our digital design suite
- Professional accreditation by the Institution of Engineering Designers, Institution of Engineering and Technology and Institution of Mechanical Engineers
- Work placements in industry
- Opportunity to undertake an industrial group project with a design engineering organisation

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## Your Studies

**Year 1:** study materials, maths, design principles and production and management

**Year 2:** focus on industrial design, mechatronic and computer-aided design, production techniques

**Year 3:** topics include product development, engineering design, mechatronics design and applications; option to study abroad

**Year 4:** individual project and industry-based product development team project; advanced design classes

**Year 5 (MEng only):** individual project, research dissertation

## Your Career

Job titles of recent graduates include Product Development Manager, Associate Engineer, Intranet Systems Developer, Production Manager and Graduate Design Engineer.

# Production Engineering & Management

MEng (UCAS HN7F)/  
BEng Honours (UCAS HN72)

Create systems which provide products and services where and when they are needed.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers: AAAA** (Maths, and Physics or Engineering Science)

**A Levels:** Year 1 entry: **AAB-BBB**; Year 2 entry: **A\*AA-AAB** (Maths, Physics)

**IB: 36** (Maths HL5, Physics HL5)

A Level Art & Design or Design & Manufacture/Graphic Communication at Higher or HL recommended

**HNC/HND:** offers entry to BEng in the first instance; contact us

### BEng Honours

**Highers: AAAB** (Maths, and Physics or Engineering Science)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths, Physics)

**IB: 34** (Maths HL5, Physics HL5)

Art & Design, Design & Manufacture or Graphic Communication at Higher or HL recommended

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit; Year 2 entry: relevant HND, AAA in Graded Units

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Product Design & Innovation (pg 48)
- Product Design Engineering (pg 49)
- Sports Engineering (pg 52)

## CONTACT

+44 (0)141 548 2839  
ug@dmem.strath.ac.uk

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## Why Production Engineering & Management at Strathclyde?

- Professional accreditation by the Institution of Engineering Designers, Institution of Engineering and Technology and Institution of Mechanical Engineers
- Develop interpersonal, presentation, management, leadership and entrepreneurial skills
- Summer placement in industry
- Learn to combine virtual and physical design and prototyping in our digital design suite
- Benefit from the opportunity to present your final projects during a conference attended by industry partners

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## Your Studies

**Year 1:** study materials, maths, design principles, and production and management

**Year 2:** focus on industrial design, mechatronic and computer-aided design, production techniques

**Year 3:** topics include product development, production and operations management, mechatronics design and applications, innovation management; option to study abroad

**Year 4:** individual project and industry-based product development team project; quality management and advanced design classes

**Year 5 (MEng only):** individual project, research dissertation

## Your Career

Employers of recent graduates include Diageo, Accenture, Unilever, Procter & Gamble, Rolls-Royce and Jaguar Land Rover.

# Prosthetics & Orthotics

BSc Honours  
(UCAS B984)

Prosthetists and orthotists work to rehabilitate those who require external medical devices to enhance movement and function.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** AAAB/AABBB (Maths A, Physics and Biology or Human Biology recommended A/B); Year 2 entry: not offered

**Advanced Highers:** Maths, Physics or Biology recommended

**A Levels:** Year 1 entry: ABB-BBB (Maths, one science subject); Year 2 entry: not offered

**IB:** Year 1 entry: 34 (Maths HL6, Physics and Biology or Human Biology recommended HL6); Year 2 entry: not offered

**HND:** Year 1 entry: HND Engineering including B in Maths for Engineering 2; Year 2 entry: not offered

## Additional Information

- Deferred entry is accepted
- No offers will be made until candidates have been interviewed; confirmation of a place on the course is conditional on applicants having no criminal convictions or charges relevant to state registration
- Due to the highly practical nature of the course, there is clinical contact with patients from the start; successful applicants will therefore be required to apply to join the Protecting Vulnerable Groups Scheme through Disclosure Scotland
- For applicants who do not have a Maths or Physics qualification, attendance at Strathclyde's Summer School may be a condition of entry

## RELATED COURSE

- Biomedical Engineering (pg 29)

## CONTACT

+44 (0)141 548 3433  
contact-ncpo@strath.ac.uk

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## Why Prosthetics & Orthotics at Strathclyde?

- The only four-year prosthetics and orthotics course in the UK with Category 1 accreditation from the International Society for Prosthetics and Orthotics
- Access to departmental scholarships
- One of only two such degrees in the UK approved by the Health and Care Professions Council
- Clinical experience with patients throughout the course
- Benefit from state-of-the-art technology including our milling machine with robot arm and video gait analysis system

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## Your Studies

**Year 1:** prosthetics and orthotic design, human biological sciences, foundations for interprofessional practice, lower limb prosthetics and orthotics practice

**Year 2:** professional skills for health care, human anatomy and physiology, lower limb prosthetic and orthotic rehabilitation

**Year 3:** four-month clinical placement in the UK or abroad; topics in upper limb prosthetics and orthotics and spinal orthotics

**Year 4:** four-month clinical placement, project and choice of specialist optional classes

## Your Career

Employers of recent graduates include the Blatchford Group, Buchanan Orthotics Ltd, Exceed Worldwide, the NHS, Opcare Ltd, Ottobock Ltd and Steeper Group.

# Sports Engineering

MEng (UCAS HC16) /  
BEng Honours (UCAS CH61)

Develop skills in engineering design and sports science to design performance-enhancing sports equipment.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** AAAA (Maths or Physics or Engineering Science)

**A Levels:** Year 1 entry: AAB-BBB; Year 2 entry:

A\*AA-AAB (Maths, Physics)

**IB:** 36 (Maths HL5, Physics HL5)

A Level Art & Design or Design & Manufacture/ Graphic Communication at Higher or HL recommended

**HNC/HND:** offers entry to BEng in the first instance (contact us)

### BEng Honours

**Highers:** AAAB (Maths or Physics or Engineering Science)

**A Levels:** Year 1 entry: ABB-BBB; Year 2 entry:

AAA-ABB (Maths or Physics or Design & Technology)

**IB:** 34 (Maths HL5 or Physics HL5)

Art & Design, Design & Manufacture or Graphic Communication at Higher or HL recommended

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit; Year 2 entry: relevant HND, AAA in Graded Units

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Product Design & Innovation (pg 48)
- Product Design Engineering (pg 49)
- Production Engineering & Management (pg 50)

## CONTACT

+44 (0)141 548 2839  
ug@dmem.strath.ac.uk

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## Why Sports Engineering at Strathclyde?

- Gain expertise in the tools and techniques of sports product development
- Learn to combine virtual and physical design and prototyping in our digital design suite
- Professional accreditation by the Institution of Engineering Designers, Institution of Engineering and Technology and Institution of Mechanical Engineers
- Work placements in industry
- Opportunity to undertake an industrial group project in Year 4 and 5 with a sports organisation

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## Your Studies

**Year 1:** study materials, anatomy and physiology for biomedical engineers, design principles and production and management

**Year 2:** topics in industrial design, mechatronics and computer-aided design and scientific aspects of sports and exercise.

**Year 3:** classes cover product design and development; technical design project; physiology of sport and exercise; study abroad for all or part of Year 3 is possible

**Years 4 & 5:** individual project and industry-based product development team project; advanced design classes

## Your Career

Job titles of recent graduates include Footwear Developer, Management Trainee, Operations Analyst, Product Creation Engineer and Research Assistant.

# The Engineering Academy

(UCAS OBRT)

The Engineering Academy is a collaboration between the University of Strathclyde and partner colleges and industry.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers: BBBB** (Maths and Physics; for entry to Chemical & Process Engineering, Maths, Physics and Chemistry are required; for entry to Biomedical Engineering, Maths, Physics and Biology are required); we will accept an Engineering Foundation Apprenticeship as part of the portfolio of qualifications for entry to the Engineering Academy as one of the non-mandatory Highers

## Additional Information

- Application to the Engineering Academy is via UCAS ([www.ucas.com](http://www.ucas.com))

## CONTACT

+44 (0)141 548 2193  
[engineering-academy@strath.ac.uk](mailto:engineering-academy@strath.ac.uk)

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## Why join the Engineering Academy at Strathclyde?

- Become a registered student at Strathclyde while completing an enhanced HNC programme in Year 1 at a partner college
- Choose from three specially-developed HNC programmes to allow you to progress to a range of degree programmes
- Opportunity to apply for financial support from Year 2 onwards via company sponsorships
- Benefit from specific mentoring and professional development with a sponsoring company
- Undertake paid summer placements

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## Your Studies

The Engineering Academy provides a pathway to an engineering BEng or MEng degree programme within one of the Faculty's participating departments. Companies who are engaging with the Engineering Academy include Aggreko, Babcock, BP, SSE, Rolls-Royce and the Weir Group.

Your first year is taken as an enhanced HNC programme at one of the partner colleges together with practical skills units. Students who achieve the required performance are guaranteed transfer to the second year of one of our undergraduate degree programmes:

- HNC Chemical Engineering allows you to progress to Year 2 of the undergraduate degrees in the Department of Chemical & Process Engineering
- HNC Electronics allows you to progress to Year 2 of the BEng Electronic & Electrical Engineering programme within the Department of Electronic & Electrical Engineering
- HNC General Engineering allows you to progress to Year 2 of the undergraduate degrees offered by the Departments of Design, Manufacture & Engineering Management, Mechanical & Aerospace Engineering and Naval Architecture, Ocean & Marine Engineering; and Year 1 of the BEng Biomedical Engineering within the Department of Biomedical Engineering

**FACULTY OF  
HUMANITIES  
& SOCIAL  
SCIENCES**

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WE ARE HOME TO ONE OF SCOTLAND'S TOP LAW SCHOOLS, AND WE ARE THE COUNTRY'S LARGEST PROVIDER OF TEACHER EDUCATION. WE ALSO HAVE SIGNIFICANT EXPERTISE IN DEVELOPING THE PROFESSIONAL PRACTICE NEEDED TO EQUIP MODERN SOCIETIES AT ALL LEVELS.

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**Studying with us, you'll be part of a community of students from around the world who are exploring ideas and solutions for an increasingly technological age – and developing the skills needed to meet these challenges.**

We produce graduates who make an impact on the world, developing professionals with transferable skills for today's society across an array of humanities and social science subjects.

We have significant expertise in developing the professional practice needed to equip modern societies at all levels. Many of our courses are recognised professionally and accredited by the appropriate statutory bodies.

Students are able to study abroad for up to one year with our international partner universities in Europe, the US, Australia and New Zealand. Experience of another country and culture develops skills and confidence which employers value.

Our research and teaching generates new ideas, knowledge and skills with the aim of increasing our understanding of the world.

With a focus on social, public and business policy, health, education and legal practice, we strive to make a significant contribution to the economy, society and the culture of Scotland, the UK and beyond.

# Humanities & Social Sciences Degrees

Our undergraduate programme gives you the choice to explore different subject combinations.

## GENERAL ADMISSIONS INFORMATION

### Applicants with Highers

Due to the high level of competition for places available, it is unlikely that Conditional Offers will be made to anyone attaining less than ABB at the first sitting of Highers.

We recognise a wide range of Highers. However, social science subjects should make up the majority of an applicant's profile. In addition to Higher English at B, subject profile must overall reflect a good grounding in essay-based subjects; at least one other Higher should come from the following: Classical Studies/Drama/Economics/French/Gaelic/Geography/German/History/Italian/Modern Studies/Philosophy/Politics/Psychology/Religious Moral & Philosophical Studies/Sociology/Spanish.

### Second-year Entry

Second-year entry for A Level/Advanced Higher candidates is possible with AA/AB in the two subjects you are planning to study. Third-year entry is not offered.

### Personal Statement

We look for information in your personal statement about your academic and career interests, and your range of skills, abilities and relevant experience. It should show that you have a strong awareness and interest in the subject you are applying to study.

### Deferred Entry

Deferred entry is not normally accepted.

## CONTACT

+44 (0)141 444 8413  
hass-admissions-ba@strath.ac.uk

## Why Humanities & Social Sciences at Strathclyde?

- Try new subjects you may not have studied before
- Explore combinations of subjects that complement each other – choose from humanities, social sciences and business classes
- Learn to work across different disciplines
- Enhance your employability by gaining transferable skills
- Study abroad in one of our partner institutions
- Part-time study mode available (for an application form contact admissions@strath.ac.uk)

## Your Studies

Choose three subjects to study in Year 1 before specialising in two of these in second year. You may choose from humanities, social sciences and business classes, provided that at least two of your subject choices are taught by the Faculty of Humanities & Social Sciences.

You will find UCAS codes, entry requirements and course descriptions on pages 58 to 73. You should enter only one of the UCAS codes for the BA in Humanities & Social Sciences on your UCAS application form. Acceptance on one of these subject codes will enable you to study any combination of subjects shown in the table opposite. Only one application will be considered.

The study of three subjects in your first year provides flexibility for choice and change, and prepares you for elements of interdisciplinary studies in Years 2 and 3.

BA Honours Degree Structure				
Year 4	Single	or	Joint	Honours Degree
Year 3	First Subject	or	First Subject AND Second Subject	
Year 2	First Subject	and	Second Subject	BA Degree
Year 1	Subject 1	Subject 2	Subject 3	

In Year 3, you can continue with your two subjects from Year 2 or start to focus on one subject, depending on whether you are thinking about joint or single Honours. Most students who meet the required standards continue to study for the four-year BA Honours degree, but some students graduate with the BA degree after three years.

All students will be admitted as potential Honours students. Students may exit with a BA degree at the end of Year 3 of the programme if they have accumulated at least 360 credits and satisfied the appropriate specialisation requirements. For admission to the final year of the Honours course, a student must have achieved an approved standard of performance.

### Your Career

You can expect to develop the following skills, which are sought-after by employers in the graduate recruitment market:

- confidence, self-expression and self-awareness, and debating skills developed through tutorials and seminars
- written and oral presentation and team-working skills
- self-reliance and problem-solving ability
- analytical and research skills, embedded throughout your studies, culminating in an Honours-level dissertation

### International Experience

We encourage you to undertake part of your degree at a university abroad. We have partnerships with universities in Europe, North and Central America, Australia, and New Zealand. You can go abroad in Year 3, for one semester or for the whole year, to study the same subjects that you would have studied at Strathclyde. It does not add any time to length of your degree and it can be a life-changing experience.

### Teaching and Assessment

Lectures and tutorials are the main methods of teaching, supplemented by student-led seminars, group projects, and laboratories. Your progress will be assessed through a range of tasks, including essays, short reports and tests, group work, projects and exams.

### Length of Study

#### Full-time

- BA (Honours): four years; BA: three years
- BA (Honours) (with a language): five years

#### Part-time

- (apply directly to the Faculty – UCAS deadlines apply)
- BA (Honours): eight years; BA six years

Subject Combinations – J indicates subjects which may be taken for the BA (Joint) Honours and for the BA degree											
<b>Education</b>											
J	English										
J	J	French									
J	J	J	History								
J	J	J	J	Italian							
J	J	J	J	J	Journalism & Creative Writing						
J	J	J	J	J	J	Law					
J	J	J	J	J	J	J	Politics & International Relations				
J	J	J	J	J	J	J	Psychology				
J	J	J	J	J	J	J	J	Social Policy			
J	J	J	J	J	J	J	J	J	Spanish		
J										J	Sport
	J	J	J	J	J	J	J	J	J	Economics	
		J	J							J	Hospitality & Tourism Management
	J	J	J	J	J	J	J	J	J	Human Resource Management	
		J	J							J	Marketing
						J	J				Mathematics

HUMANITIES & SOCIAL SCIENCES SUBJECTS

SUBJECTS OFFERED BY OTHER FACULTIES

# Education

## BA Joint Honours

Education is an interesting field of study in its own right. You will learn about formal and informal education in relation to political and social issues.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, GCSE Maths C); Year 2 entry: not offered

**IB:** **36** (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Maths National 5 C, or equivalent

### Additional Information

- Students are required to register with the Scottish Government's Protecting Vulnerable Groups scheme

### JOINT HONOURS SUBJECT COMBINATIONS

English (UCAS QX33)  
French (UCAS RX13)  
History (UCAS VX13)  
Italian (UCAS RX33)  
Journalism & Creative Writing (UCAS PX53)  
Law (UCAS MX13)  
Politics & International Relations (UCAS LX23)  
Psychology (UCAS CX83)  
Social Policy (UCAS X3L4)  
Spanish (UCAS RX43)  
Sport (UCAS TBC)

### CONTACT

+44 (0)141 444 8413  
hass-admissions-ba@strath.ac.uk

## Why Education at Strathclyde?

- Opportunity to put theory into practice in a community placement and enhance your employability
- Develop your knowledge and understanding of the education systems of Scotland and beyond
- Learn about education in relation to political and social issues
- Experience research-informed, evidence-based teaching by internationally-recognised professionals
- Opportunity to progress to a Postgraduate Diploma in Education (PGDE) in Primary or Secondary teaching

### Your Studies

**Year 1:** topics include the impact of poverty and social class on children and society, and the role of culture and community in education; you also undertake a community-based placement

**Year 2:** focus on how children learn and option classes linked to voluntary sector education programmes, developing your partnership and collaborative project skills

**Year 3:** explore the history and philosophy of education, and the evolution of adult learning, and how children and childhood are represented in film and literature

**Year 4:** Honours dissertation and choice of specialist classes such as policy and politics or social issues in education

### Your Career

Our graduates will have opportunities to work in professions associated with Education, for example, in law, psychology, journalism, the Civil Service, and the Museums Service. A joint Honours degree in Education and another subject will qualify you to apply for the Professional Graduate Diploma in Education (PGDE) course, either primary or secondary. You can study to be a primary teacher at undergraduate level with the BA (Honours) Primary Education (see pg 82).

# English

BA Honours (UCAS Q300)

In a world overflowing with text – from blogs and emails to novels and plays – the study of literature and language has never been more relevant and important.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Maths National 5 C, or equivalent

## Additional Information

- Students numbers for optional classes may be limited in Years 3 and 4

## JOINT HONOURS SUBJECT COMBINATIONS

Education (UCAS QX33)  
French (UCAS QR31)  
History (UCAS QV31)  
Human Resource Management (UCAS QN36)  
Italian (UCAS QR33)  
Journalism & Creative Writing (UCAS QP35)  
Law (UCAS QM31)  
Politics & International Relations (UCAS QL32)  
Psychology (UCAS QC38)  
Social Policy (UCAS Q3L4)  
Spanish (UCAS QR34)

## CONTACT

+44 (0)141 444 8413  
hass-admissions-ba@strath.ac.uk

## Why English at Strathclyde?

- Work with staff who are world-leading researchers and prize-winning novelists and poets
- Cultivate employable skills in written and verbal communication, analysis of complex cultural ideas, and creative thinking
- Learn about texts from all genres across a wide range of literary periods, from the Renaissance to the 21st Century
- Benefit from our fresh, contemporary approaches to the study of literature, language, and theory

## Your Studies

**Year 1:** study a wide range of literature including Shakespearean drama and modern cutting-edge fiction

**Year 2:** topics in literary history and classes on Renaissance, Enlightenment and Romantic writing; you can also learn about relationships between literature and identity in The Construction of Scotland and Making the Modern Human classes

**Year 3:** you have the opportunity to study abroad in Europe or North America; or continue your studies in Glasgow with classes in Victorian and 20th-Century Literature and from options including Children's Literature, Theories of Literature and Wellbeing, America in the 1920s, the First World War, and the Glasgow Novel

**Year 4:** Honours dissertation and options such as Victorian Gothic Writing, Literary Snobbery, Contemporary Travel Writing, Atrocity and Modernism, Literature, Mind and Brain, and The 20th and 21st Century American Novel

## Your Career

Graduates can be found in areas such as publishing, the Civil Service and the media. Recent employers include Apple, the BBC, and Education Scotland, with job titles such as Film Director, Lecturer, Researcher, and Regional Marketing Coordinator.

“

I chose to study at Strathclyde because the city-centre campus offers a variety of activities on my doorstep. I worked in France for a year as an English Language Assistant and was awarded the Stevenson Exchange Scholarship to fund a project during the year. It was one of the best experiences I've ever had – meeting people from all over the world, and developing my self-confidence.

FIGNA HARDIE  
ENGLISH & FRENCH

”



# French

## BA Joint Honours

French is a key international language and its study opens up the varied world of francophone culture.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Higher French B; Maths National 5 C, or equivalent

### JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS LR11)

Education (UCAS RX13)

English (UCAS QR31)

History (UCAS RV11)

Hospitality & Tourism Management (UCAS RN81)

Human Resource Management (UCAS RN16)

Italian (UCAS RR13)

Journalism & Creative Writing (UCAS RP15)

Law (UCAS RM11)

Marketing (UCAS RN15)

Politics & International Relations (UCAS RL12)

Psychology (UCAS RC18)

Social Policy (UCAS R1L4)

Spanish (UCAS RR14)

### CONTACT

+44 (0)141 444 8413

hass-admissions-ba@strath.ac.uk

## Why French at Strathclyde?

- Focus on contemporary language and culture
- Study abroad with our partners in Paris, Dijon and Angers
- Spend up to two years abroad – one on exchange to a partner university and one as an English-language assistant in an French School
- Stevenson Exchange Scholarship – a competitive award with funding towards a project undertaken while abroad
- French can also be studied within the LLB Honours Law with a Modern Language (see pg 80)
- Combine French with selected business subjects

### Your Studies

**Year 1:** two streams are offered – one for students with Higher French or an equivalent qualification and another for beginners; both classes study contemporary French language and aspects of culture and society covering topics such as The Making of Modern France, Understanding the French Republic, France in a Global Context and French Identities

**Year 2:** develop further reading, writing, speaking and listening skills; in cultural classes, you learn more about the history and politics of France and French-speaking countries through topics including immigration in France, the French economy and education system

**Year 3:** you have the opportunity to study abroad with one of our French exchange partners; or continue your studies in Glasgow with a group project and advanced translation classes

**Year 4:** year abroad in France, working as an English language assistant, or studying at one of our exchange partners

**Year 5:** focus on translation, written and oral language and interpreting; cultural classes in areas such as the Occupation and its portrayal in French films, France since 1945 and Images of Women.

### Your Career

Graduates are currently working in a variety of environments around the world. Job titles include business executive, professional linguist, researcher, IT expert, journalist, lawyer and entrepreneur.

# History

BA Honours (UCAS V100)

Studying history develops your knowledge of the past and gives you an understanding of the present.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Maths National 5

**HND Social Sciences:** ABB in Graded Units may enable second-year entry to History with Politics & International Relations or Psychology with six HNC/HND credits in each of the two subjects

## Additional Information

- Students numbers for optional classes may be limited in Years 3 and 4

## JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS LV11)  
Education (UCAS LV13)  
English (UCAS QV31)  
French (UCAS RV11)  
Human Resource Management (UCAS VN16)  
Italian (UCAS VR13)  
Journalism & Creative Writing (UCAS VP15)  
Law (UCAS VM11)  
Politics & International Relations (UCAS VL12)  
Psychology (UCAS VC18)  
Social Policy (UCAS V1L4)  
Spanish (UCAS VR14)

## CONTACT

+44 (0)141 444 8413  
hass-admissions-ba@strath.ac.uk

## Why History at Strathclyde?

- Gain analytical skills to enhance your employability
- Learn about the context in which we live today
- Study some of the most important and interesting periods in both UK and world history
- Benefit from excellent teaching in a range of professionally-relevant areas, such as problem-solving, communication, research methods and interpretation
- Opportunity to study abroad in a North American or European university for six or 12 months
- Access to internships and placements

## Your Studies

**Year 1:** introduces themes looking at 19th and 20th-century Britain including industrialisation, empire, political reform, war and social change

**Year 2:** choose from topics including Modern Europe, Scotland: Renaissance and Reformation, History of Scotland, 1700-1832, Disease and Society; Glasgow: History, Culture and Identity

**Year 3:** you have the opportunity to study abroad in Europe or North America; or continue your studies in Glasgow and choose from topics such as Cold War Europe, Medicine and Warfare, Madness and Society, The 'westward enterprise': Scotland, Ulster, and America, c.900-1783, Society and Politics in Colonial India, 1880-1947, Scottish Society since 1914, From Samurai to Entrepreneurs, The Birth of Modern Japan, The Covenanters and the British Civil Wars c 1637-51, Theory and Practice of Oral History, Sex, Medicine and Society in Britain and Ireland, 1880s-1980s

**Year 4:** Honours dissertation and choice of special subjects such as The Scramble for the Middle East, Plantation in Ulster, Rwanda: Peace, Conflict & the Politics, Scandals and Ethics: The History of Pharmacy and Pharmaceuticals, Men at War 1914-1945

## Your Career

Our graduates have secured employment in marketing and PR companies, the civil service, the Scottish parliament, charity sector, banking, libraries, museums and heritage, teaching, academia and journalism.

# Italian

## BA Joint Honours

The study of Italian will open your eyes to the achievements of one of the world's greatest civilisations.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Higher Italian B; Maths National 5 C, or equivalent

### JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS RL31)

Education (UCAS RX33)

English (UCAS QR33)

French (UCAS RR13)

History (UCAS VR13)

Hospitality & Tourism Management (UCAS RN3V)

Human Resource Management (UCAS RN36)

Journalism & Creative Writing (UCAS RP35)

Law (UCAS RM13)

Marketing (UCAS RN35)

Politics & International Relations (UCAS RL32)

Psychology (UCAS RC38)

Social Policy (UCAS R3L4)

Spanish (UCAS RR34)

### CONTACT

+44 (0)141 444 8413

hass-admissions-ba@strath.ac.uk

## Why Italian at Strathclyde?

- Focus on contemporary language and culture
- Study abroad in Milan, Padua or Verona
- Spend up to two years abroad – one on exchange to a partner university and one as an English-language assistant in an Italian School
- Learn through interactive lectures, digital language labs, and streamed live Italian television
- Scottish-Italian scholarship available
- Italian can also be studied within the LLB Honours Law with a Modern Language (see pg 80)

### Your Studies

**Year 1:** two streams are offered – one for students with Higher Italian or an equivalent qualification and another for beginners; both classes study contemporary Italian language and aspects of culture and society

**Year 2:** you develop further reading, writing, speaking and listening skills; key study areas include 20th-century history and politics, cinema and literature

**Year 3:** you have the opportunity to study abroad with one of our Italian exchange partners; or continue your studies in Glasgow with advanced writing and translation classes in semester one and a group project in semester two

**Year 4:** year abroad in Italy, working as an English language assistant, or studying at one of our exchange partners

**Year 5:** focus on translation, written and oral language and interpreting; cultural classes such as Women in post-Unification Italy, Italian Resistance Culture, and Visions of Italian Terrorism

### Your Career

Graduates are currently working in a variety of environments around the world. Job titles include business executive, professional linguist, researcher, IT expert, journalist, lawyer and entrepreneur.

# Journalism & Creative Writing

BA Joint Honours

From global crises to the UK economic and political situation, journalism informs our view of the world.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, GCSE Maths C); Year 2 entry: not offered

**IB:** 36 (Maths SL5)

**HNC Creative Industries:** Year 1 entry: Media and Communication A in Graded Unit; Professional Writing A in Graded Unit

**HNC Practical Journalism:** A in Graded Unit

## JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS PL51)

Education (UCAS PX53)

English (UCAS QP35)

French (UCAS RP15)

History (UCAS VP15)

Human Resource Management (UCAS PN56)

Italian (UCAS RP35)

Law (UCAS PM51)

Politics & International Relations (UCAS LP25)

Social Policy (UCAS P5L4)

Spanish (UCAS PR54)

## CONTACT

+44 (0)141 444 8413

hass-admissions-ba@strath.ac.uk

## Why Journalism & Creative Writing at Strathclyde?

- Learn the skills and practices of contemporary journalism in a digital, multimedia era
- Engage with a range of creative writing genres, including fiction, poetry and travel writing
- Study with internationally-renowned writers, journalists and researchers
- Enjoy our programme of visiting speakers from the world of broadcasting, publishing and newspapers
- Enter your work in student competitions
- Opportunities for media work placement experience

## Your Studies

**Year 1:** try out the basics of news gathering and writing, and learn free verse poetry and the art of the short story

**Year 2:** learn about the key institutions of journalism and creative writing; further develop skills in writing news and a variety of creative genres, including the novel and the poem

**Year 3:** you have the opportunity to study abroad in Europe or North America; or continue your studies in Glasgow and become accomplished in research and gathering information to improve your journalism and creative composition; you will be able to study dramatic writing and the relationship between writing and place; and you will develop advanced skills in feature journalism

**Year 4:** Honours dissertation and develop your own specialism including travel writing, ethics and journalism, media and literary publics, journalism and popular culture

## Your Career

Strathclyde Journalism and Creative Writing graduates have developed careers in national broadcast and print journalism, creative fiction, public relations, academic and commercial publishing, among many other areas.

“

I chose Human Resource Management as an elective in first year and my department was supportive of my change of direction to a business-related course. Summer internships working in two high-profile companies in London have been valuable experience. I hope to pursue a career which combines my knowledge of business and my writing skills.

CESCA BRINDLEY  
JOURNALISM & CREATIVE WRITING  
AND HUMAN RESOURCE MANAGEMENT

”



# Law

## BA Joint Honours

Law studies the obligations, and rights which members of society have in relation to each other and to the state.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Maths National 5 C, or equivalent

### JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS ML11)

Education (UCAS MX13)

English (UCAS QM31)

French (UCAS RM11)

History (UCAS VM11)

Human Resource Management (UCAS MN16)

Italian (UCAS RM31)

Journalism & Creative Writing (UCAS PM51)

Politics & International Relations (UCAS ML12)

Psychology (UCAS MC18)

Social Policy (UCAS M1L4)

Spanish (UCAS MR14)

### CONTACT

+44 (0)141 444 8413

hass-admissions-ba@strath.ac.uk

## Why Law at Strathclyde?

- Develop an awareness of law and the legal implications of business operations which is sought after by employers
- Access the resources of the Andersonian Library, one of the finest in Scotland, offering a wide range of law reports, legislation, serials and monographs
- The Law School is ranked joint first in Scotland for research impact; for professional law study please see pgs 76 - 80
- Progress to our LLB (Graduate Entry) after completing a joint Honours degree with another subject

### Your Studies

**Year 1:** you learn about the laws of contract and delict, which are the building blocks of most other areas of law, to the court systems and the law-making process in the UK

**Year 2:** choice of classes from a range which includes Human Rights Law, Environmental Law, Criminal Law, Public International Law, and Law, Film and Popular Culture

**Year 3:** you have the opportunity to study abroad; or continue your studies in Glasgow with more optional classes as in Year 2

**Year 4:** Law can be taken to joint Honours in combination with one of the subjects listed right; you can choose areas of study which are a development of the classes taken in Years 1 to 3

### Your Career

Graduates who have studied law and another discipline may be employed in areas where knowledge of the legal implications of business practice is of value, such as government services, commerce and industry, banking and insurance, and management and administration.

# Politics & International Relations

BA Honours (UCAS L200)

From constitutions to wars and terrorism – Politics and International Relations covers a range of important issues.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** 36 (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Maths National 5 C, or equivalent

**HND Social Sciences:** ABB in Graded Units may enable second-year entry to Politics & International Relations with History or Psychology with six HNC/HND credits in each of the two subjects

## JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS LL21)  
Education (UCAS LX23)  
English (UCAS QL32)  
French (UCAS RL12)  
History (UCAS VL12)  
Human Resource Management (UCAS LN26)  
Italian (UCAS RL32)  
Journalism & Creative Writing (UCAS LP25)  
Law (UCAS ML12)  
Psychology (UCAS LC28)  
Social Policy (UCAS L2L4)  
Spanish (UCAS LR24)

## CONTACT

+44 (0)141 444 8413  
hass-admissions-ba@strath.ac.uk

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## Why Politics & International Relations at Strathclyde?

- Develop high-level written and verbal skills
- Benefit from research-led teaching – Politics at Strathclyde was No 1 in Scotland for research impact in the latest UK research rankings
- Politics has received excellent overall satisfaction scores in consecutive National Student Surveys – above 90%
- Politics at Strathclyde has a long tradition of real-world excellent research, informing quality teaching in a student-friendly environment
- Opportunities for placements and international exchange

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## Your Studies

**Year 1:** topics include power, democracy, citizenship, EU, security, and terrorism as key concepts; institutions in politics and international relations are analysed

**Year 2:** topics include International Relations & Global Politics, Comparative Politics, Political Philosophy

**Year 3:** you have the opportunity to study abroad in Europe or North America; or continue your studies in Glasgow and take research methodology and optional classes including War, Terrorism and Conflict, Chinese Politics, American Politics, European Politics

**Year 4:** Honours dissertation; class options include International Development, International Security, Green Politics, Feminism, Political Parties, International Relations Theory, Religion and Politics, Regulatory Politics, Governance and Development, US Foreign Policy

## Your Career

Strathclyde Politics and International Relations students can develop careers in government, parliament, the media, education, and commerce, among many other areas.



“

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My home is a small town, so I wanted to move to a lively city. Glasgow is just that and Strathclyde is right in the city centre – an ideal location for any student. Coming from England, I received an accommodation bursary which has helped with my living expenses. Being at university has taught me to have confidence in my ideas and has inspired me to succeed.

CHARLES WOODHAM  
ENGLISH & POLITICS

”

# Psychology

BA Honours (UCAS C800)

Psychology studies human behaviour and the reasons for differences between individuals.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C\*)

**IB:** 36 (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Maths National 5 C, or equivalent

**HND Social Sciences:** ABB in Graded Units may enable second-year entry to Psychology with History or Politics & International Relations with six HNC/HND credits in each of the two subjects

## Additional Information

Due to the popularity of the course, performance-related criteria may be in place to manage entry into Honours (Year 4); this means that the numbers admitted to Years 2 and 3 of the course are limited.

## JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS CL81)  
Education (UCAS CX83)  
English (UCAS QC38)  
French (UCAS RC18)  
History (UCAS VC18)  
Human Resource Management (UCAS CN86)  
Italian (UCAS RC38)  
Law (UCAS MC18)  
Mathematics (UCAS CG81)  
Politics & International Relations (UCAS LC28)  
Social Policy (UCAS C8L4)  
Spanish (UCAS CR84)  
Sport (UCAS TBC)

## CONTACT

+44 (0)141 444 8413  
hass-admissions-ba@strath.ac.uk

\* updated since the printed prospectus was produced

## Why Psychology at Strathclyde?

- Study the science of behaviour and the reasons for differences between individuals, across the lifespan
- Acquire skills in communication, numeracy and critical thinking
- Single Honours graduates in Psychology are eligible for Chartered Membership with the British Psychological Society the first step to becoming a Chartered Psychologist
- Opportunity to undertake a summer research placement with an international researcher
- Work within our purpose-built experimental research labs

## Your Studies

**Year 1:** basic principles of learning such as thinking, memory, personality and social influences on behaviour

**Year 2:** classes provide a greater understanding of human development and interaction, cognitive processes, individual differences and biological influences on behaviour

**Year 3:** the single Honours pathway covers the six core domains required by the British Psychological Society for accreditation; joint Honours students have the opportunity to study abroad in Europe or North America for a semester

**Year 4:** research-based Honours dissertation with a prize for the best dissertation; choice of around 14 topics including: Artificial Intelligence, Health Psychology, Belief and Anomalous Experience, Neuropsychology of Ageing and Dementia; summer international research placement or a home-based term-time professional employment placement

## Your Career

Employers of recent graduates include Autism Initiative UK, Barnardos, the NHS, local councils, Quarriers and Scottish Marriage Care.

# Social Policy

BA Joint Honours

Social policy examines the ways in which societies distribute resources and develop services.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Maths National 5 C, or equivalent

## JOINT HONOURS SUBJECT COMBINATIONS

Education (UCAS X3L4)

French (UCAS R1L4)

History (UCAS V1L4)

Human Resource Management (UCAS N6L4)

Italian (UCAS R3L4)

Journalism & Creative Writing (UCAS P5L4)

Law (UCAS M1L4)

Politics & International Relations (UCAS L2L4)

Psychology (UCAS C8L4)

Spanish (UCAS R4L4)

## CONTACT

+44 (0)141 444 8413

hass-admissions-ba@strath.ac.uk

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## Why Social Policy at Strathclyde?

- Learn about the social and economic challenges facing both Scotland and the UK
- Address some of the major questions of our time, such as how social policy should adapt to a changing global, digital, connected and information-rich world
- Gain insight into how different societies organise their resources to meet individual and social needs
- Undertake an extended investigation into a topic of your own choosing for your Honours dissertation

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## Your Studies

**Year 1:** introduces some of the key challenges facing Scottish society in areas such as health, housing, education and social security, and examines the ways in which 'social problems' are identified, defined and interpreted

**Year 2:** key concepts in social policy, including issues such as human needs, social welfare, inequality, poverty, citizenship, and social exclusion; study of the processes through which policies are made and debates about their effectiveness

**Year 3:** examine the development of Scottish social policy in a UK context, and study particular social policy areas or themes that interest you; research methodology class

**Year 4:** research-based Honours dissertation and a choice of advanced classes

## Your Career

Employment destinations for social policy graduates include local and national government policy development, regional and urban development, children's services, health and social welfare, and protective services.

“

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I was born and grew up in Germany. Studying abroad is a great opportunity to improve my English, develop my social skills and gather new and different experiences. I recommend taking advantage of the opportunities on offer and get involved. I've joined social and sports clubs to keep a balance with studying.

MARION ROTH  
SOCIAL POLICY

”



# Spanish

## BA Joint Honours

By learning Spanish you will be joining almost 600 million people who speak the world's second most commonly-spoken language.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** 36 (Maths SL5)

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; Higher Spanish B; Maths National 5 C, or equivalent

### JOINT HONOURS SUBJECT COMBINATIONS

Economics (UCAS RL41)

Education (UCAS RX43)

English (UCAS QR34)

French (UCAS RR14)

History (UCAS VR14)

Hospitality & Tourism Management (UCAS RN4V)

Human Resource Management (UCAS RN46)

Italian (UCAS RR34)

Journalism & Creative Writing (UCAS PR54)

Law (UCAS MR14)

Marketing (UCAS RN45)

Politics & International Relations (UCAS LR24)

Psychology (UCAS CR84)

Social Policy (UCAS R4L4)

### CONTACT

+44 (0)141 444 8413

hass-admissions-ba@strath.ac.uk

## Why Spanish at Strathclyde?

- Focus on contemporary language and culture
- Opportunity to study Spanish as a beginner
- Study abroad with our partners in Valencia and Zaragoza
- Spend up to two years abroad – one on exchange to a partner university and one as an English-language assistant in a French School
- Spanish can also be studied within the LLB Honours Law with a Modern Language (see pg 80)
- Combine Spanish with selected business subjects

### Your Studies

**Year 1:** two streams are offered – one for students with Higher Spanish or an equivalent qualification and another for beginners; both classes study contemporary Spanish language and aspects of the culture and society

**Year 2:** you develop further reading, writing, speaking and listening skills; in cultural classes study more about Isolation and Independence and the Struggle for Modernity in Spain and Latin America

**Year 3:** you have the opportunity to study abroad with one of our Spanish exchange partners; or continue your studies in Glasgow with a group project and advanced translation classes

**Year 4:** year abroad in Spain, working as an English language assistant, or studying at one of our exchange partners

**Year 5:** focus on translation, written and oral language and interpreting; cultural classes in areas such as Shaping Spain: Ideas, Beliefs and Identity, and Dictatorship and Resistance in Hispanic Cinema

### Your Career

Graduates are currently working in a variety of environments around the world. Job titles include business executive, professional linguist, researcher, IT expert, journalist, lawyer and entrepreneur.

# Sport

## BA Joint Honours

Combine practical skills in sport and physical activity with an understanding of education and training in research methods.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also admissions information on pg 56

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

**HNC/HND Sports Coaching with Development of Sport/Fitness, Health and Exercise/ Applied Sports Science:** Year 1 entry: HNC B in Graded Unit; Year 2 entry: HND BBB in Graded Units

### JOINT HONOURS SUBJECT COMBINATIONS

Education (UCAS tbc)  
Psychology (UCAS tbc)

### CONTACT

+44 (0)141 444 8413  
hass-admissions-ba@strath.ac.uk

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## Why Sport at Strathclyde?

- Study the core elements of sports practice, physical activity for health, human movement science, coaching and sport development
- Develop your practical skills in sport and physical activity and learn to apply these in educational contexts
- Learn about the role of education in tackling challenges surrounding obesity and sedentary behaviour
- Gain training in data collection, analysis and reporting
- Opportunities for placement experience
- Benefit from new sport, health and wellbeing facilities

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## Your Studies

**Year 1:** you study topics in Sports Practice and Introductory Physiology and Biomechanics, along with classes in Education and another subject

**Year 2:** classes include Coaching and Sport Development, Physiology of Aerobic Exercise, and Key Concepts in Sport and Physical Activity Psychology

**Year 3:** Sports Practice 3, Research Project in Sport and Physical Activity, placement and professional development class

**Year 4:** Dissertation Research Skills class and Honours dissertation

## Your Career

Graduates can expect to be employed in areas that involve formal and/or informal education, for example PE teaching, sports coaching, gym work and youth development programmes.

# Childhood Practice

BA Honours (part-time)

This degree matches the Standard for Childhood Practice in Scotland and will develop future leaders.

## ENTRY REQUIREMENTS

Application is direct to the University.

Candidates should be employed in registered care and educational services or work with children and families in a variety of non-statutory school contexts (minimum two years experience).

**Year 1 entry:** HNC Child Care and Education, 120 SCQF level 7 credits in a relevant subject or HNC Early Education and Childcare, SNNEB or relevant qualifications accepted by the Scottish Social Services Council as suitable for registration at practitioner level plus a learning portfolio matching competencies to the Standard for Childhood Practice

Accelerated entry may be offered for candidates who have 180 credits at level 7 or 240 SCQF credits with 120 credits at level 8

Accelerated entry to level 9 can be offered for candidates who have additional qualifications at SCQF level 8

Accelerated entry to level 10 (Honours) can be offered for candidates who have BA Childhood Practice level 9

## Additional Information

- All applicants should be eligible for registration at practitioner level with the Scottish Services Council
- Opportunities for the Accreditation of Prior Learning (eg PDA) are available
- Application forms and Learning Statements are available from the course administrator

## CONTACT

+44 (0)141 444 8100  
hass-courses-edu@strath.ac.uk

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## Why Childhood Practice at Strathclyde?

- Attend sessions with tutors one evening per week from 6pm to 9pm and occasional Saturdays
- Learn with a blend of e-learning, using a virtual learning environment, and group instruction (Honours year)
- Validated by the Scottish Social Services Council for progression to managerial level
- The only part-time face-to-face degree of this type available in Scotland
- Peer learning helps support practice-based learning
- Work-based learning is a key feature of the course

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## Your Studies

The degree structure is divided according to the three main aspects of professional development, as outlined in the Scottish Social Services Council document – The Standard for Childhood Practice (revised 2015). Core modules provide theoretical knowledge, underpinning the issues for children from birth to 16 years. The course takes a holistic view of children's development, learning and wellbeing. It covers areas such as:

- protecting and caring for children
- working with parents and carers, families, communities and other agencies
- developing practice in the leadership of others
- understanding of relevant organisational frameworks
- developing a critical understanding of policies, practices and legal requirements relevant to the service
- knowledge of how children learn and develop

## Your Career

Job titles of recent graduates include Child Development Officer, Deputy Nursery Manager, Early Years Education Officer, Head of Nursery, Senior Early Years Worker, and Team Leader in Early Years.

# Education & Social Services

Diploma/BA/BA Honours

Integration of health, education and social services is one of Scotland's major programmes of reform.

## ENTRY REQUIREMENTS

Application is to participating college in the first instance.

You will enter College at Diploma of Higher Education level, having first studied a relevant HNC such as: Early Education and Childcare; Health Care; Social Care; Additional Support Needs; Occupational Therapy Support.

You will then go on to study Year 3 of the BA and Year 4 of the BA Honours at Strathclyde.

You will require two additional supporting documents:

- Confirmation from the Board of Examiners that you have met the requirements to progress to the final years of the degree
- A Personal Statement outlining your commitment to continuing on the course

All enquiries regarding entry to the HE Diploma should be made to the relevant college contact. The Diploma of Higher Education in Education and Social Services runs at the following colleges:

West College Scotland Waterfront Campus  
t: 01475 553007  
e: education@jameswatt.ac.uk

Glasgow Clyde College Langside Campus  
t: 0141 272 9000  
e: info@glasgowclyde.ac.uk

New College Lanarkshire Motherwell Campus  
t: 01698 232425  
e: ann.baxter@nclan.ac.uk

## CONTACT

+44 (0)141 444 8100  
hass-courses-edu@strath.ac.uk

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## Why Education & Social Services at Strathclyde?

- Prepare for work in settings which combine health education and social work/social care
- Innovative degree which is unique in Scotland
- Develop leadership qualities and the skills required in health, education and social work/social care services
- Benefit from work placement opportunities to promote personal and professional development and strengthen your CV
- Opportunity to start your degree in a local college before moving to university for Years 3 and 4

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## Your Studies

**Year 2:** you study six classes including Being Professional, Working Collaboratively and Introduction to Integrated Services.

**Year 3:** you take compulsory classes in Management and Leadership in Integrated Services, Contexts, Policy and Joint Working, Understanding How People Behave, Health and Wellbeing in Integrated Services, Research Methods; six-week work placement with private, public or voluntary sector agencies

**Year 4:** modules include personal and professional development, specialist pathway and dissertation; 12-week work placement as in Year 3

## Your Career

You will be well-equipped to work within integrated services across the education, health and social care sector and will be working towards leadership roles. The BA Honours degree will also allow you to progress to further study. Graduates can seek entry to postgraduate professional programmes such as MSc Social Work, Professional Graduate Diploma in Education (PGDE), MSc Nursing and MSc Occupational Therapy.

# LLB Honours Law

LLB Honours (UCAS M114)

Studying law concerns the obligations and rights of every member of society.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAAB**

2nd sitting: **AAABBBB**

(Higher English B, Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **AAB-BBB** (GCSE English Language B or Literature B, GCSE Maths C); Year 2 entry: not offered

**IB:** **38** (English HL5, Maths SL)

**HND Legal Services:** Year 1 entry: AAB in Graded Units. Applicants must have at least three years post-school experience before embarking on further education. Other relevant HND qualifications will be considered on an individual basis; please contact us for advice.

## Additional Information

- Deferred entry is accepted
- Essay-based Highers/Advanced Highers/A Levels recommended, eg Social subjects, Philosophy, Psychology, RMPS
- Experience in a law firm is not expected
- At Strathclyde, Law is also offered as subject in the BA (Honours) degree (see pg 66 for the course description)

## CONTACT

+44 (0)141 548 3738

hass-courses-law@strath.ac.uk

## Why LLB Law at Strathclyde?

- The LLB is accredited by the Law Society of Scotland and the Faculty of Advocates
- Gain practical court-room experience through the Mooting Society and enter competitions
- Develop your legal skills as a member of Scotland's largest student-run Law Clinic
- Accelerated graduate entry and part-time study options
- Benefit from high quality research-led teaching at one of Scotland's leading providers of legal education
- Study abroad at our partner law schools

## Your Studies

**Year 1:** Criminal Law, Legal Methods, Legal Process, Law and Society, Public Law 1 and Voluntary Obligations: Contract and Promises; you can apply to join the Law Clinic and integrate this experience in your degree of LLB (Clinical)

**Year 2:** Commercial Law, Domestic Relations, EU Law, Property Trusts and Succession, and Involuntary Obligations: Delict and Unjustified Enrichment, Public Law 2

**Year 3:** Evidence, and five class options such as Ethics and Justice, Competition Law, Crime and Punishment, Discrimination Law, Employment Law, Housing Law, Human Rights Law, Internet Law, Law, Film and Popular Culture, Legal Theory, Public International Law

**Year 4:** dissertation and four optional classes

## Your Career

Most Strathclyde LLB graduates enter the legal profession after completing the Diploma in Professional Legal Practice and a two-year traineeship in a law firm. There are also many job opportunities for legally-trained graduates in areas such as finance, management consultancy, teaching, central and local government, human resource management, social work and education.

# LLB Honours Scots & English Law (Clinical)

LLB Honours (UCAS M100)

The Clinical LLB is an innovative degree which is unique in the UK and possibly also in the world.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAAB**

2nd sitting: **AAABBBB**

(Higher English B, Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **AAB-BBB** (GCSE

English Language B or Literature B, GCSE Maths C); Year 2 entry: not offered

**IB:** **38** (English HL5, Maths SL)

**HND Legal Services:** Year 1 entry: AAB in Graded Units. Applicants must have at least three years post-school experience before embarking on further education. Other relevant HND qualifications will be considered on an individual basis; please contact us for advice.

## Additional Information

- Deferred entry is accepted
- Essay-based Highers/Advanced Highers/A Levels recommended, eg Social subjects, Philosophy, Psychology, RMPs
- Experience in a law firm is not expected
- At Strathclyde, Law is also offered as subject in the BA (Honours) degree (see pg 66 for the course description)

## CONTACT

+44 (0)141 548 3738

hass-courses-law@strath.ac.uk

## Why LLB Clinical Law at Strathclyde?

- Benefit from the opportunity to observe how law operates in practice, and gain valuable professional skills
- Strathclyde's Law Clinic is run by students for members of the public who cannot afford a lawyer and are not eligible for legal aid
- Integrate four years of clinical experience through membership of Scotland's first and largest Law Clinic
- The four-year LLB curriculum covers all the qualifying subjects required by the relevant UK accrediting bodies
- Apply theoretical understanding of law in real-life contexts

## Your Studies

The Clinical LLB involves the same curriculum as the standard LLB and the LLB Law (Scots & English), but with additional clinical classes and experience of legal practice in the Law Clinic. Clinical classes are a mix of compulsory classes and those in which you replace part of the assessment in a standard LLB class with a reflective essay on a case.

**Year 1:** Criminal Law, Public Law, Legal Methods (Clinical), Domestic Relations, Voluntary Obligations: Contract and Promise (Clinical), and Legal Process/Legal Process (Clinical)

**Year 2:** EU Law, Public Law 2/Public Law 2 (Clinical), Legal Theory/Legal Theory (Clinical), Commercial Law/Commercial Law (Clinical), Involuntary Obligations: Delict and Unjustified Enrichment/Involuntary Obligations: Delict and Unjustified Enrichment (Clinical), Property, Trusts and Succession/Property Trusts and Succession (Clinical)

**Year 3:** Evidence, Clinical Legal Practice, Ethics and Justice and five options such as Employment Law (Clinical)/Employment Law, Discrimination Law (Clinical)/Discrimination and the Law, Human Rights Law (Clinical)/Human Rights Law, Housing Law (Clinical)/Housing Law, Planning Law (Clinical)/Planning Law, Law, Film and Popular Culture

## Your Career

Clinical LLB graduates have the experience which prepares them to achieve the highest standards of professional practice.

# LLB Honours Law (Scots & English)

LLB Honours (UCAS M116)

This course is a dual-qualifying law degree, recognised in England, Wales, Northern Ireland and Scotland.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAAB**

2nd sitting: **AAABBBB**

(Higher English B, Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **AAB-BBB** (GCSE English Language B or Literature B, GCSE Maths C); Year 2 entry: not offered

**IB:** **38** (English HL5, Maths SL)

**HND Legal Services:** Year 1 entry: AAB in Graded Units. Applicants must have at least three years post-school experience before embarking on further education. Other relevant HND qualifications will be considered on an individual basis; please contact us for advice.

## Additional Information

- Deferred entry is accepted
- Essay-based Highers/Advanced Highers/A Levels recommended, eg Social subjects, Philosophy, Psychology, RMPS
- Experience in a law firm is not expected
- At Strathclyde, Law is also offered as subject in the BA (Honours) degree (see pg 66 for the course description)

## CONTACT

+44 (0)141 548 3738  
hass-courses-law@strath.ac.uk

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## Why LLB Scots & English Law at Strathclyde?

- The four-year LLB curriculum covers the qualifying subjects required by the relevant UK accrediting bodies.
- Get practical court-room experience through the Mooting Society and enter competitions
- Study at one of Scotland's leading providers of legal education
- Opportunity to develop your legal skills as a member of Scotland's largest student run Law Clinic
- Learn about the law of a number of jurisdictions and develop different ways of thinking about law.

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## Your Studies

As study of the English law subjects does not start until Year 3, you can opt into, or out of, this programme at any point prior to the end of second year.

**Year 1:** (Scots) Criminal Law, Legal Methods, Legal Process, Law and Society, Public Law 1 and (Scots) Voluntary Obligations: Contract and Promises

**Year 2:** Commercial Law, (Scots) Domestic Relations, EU Law, (Scots) Property Trusts and Succession, and (Scots) Involuntary Obligations: Delict and Unjustified Enrichment, Public Law 2

**Year 3:** English Law of Property and Land, English Criminal Law and Evidence, English Law of Tort, (Scots) Evidence, English Law of Contract and Restitution, English Law of Equity and Trusts

**Year 4:** dissertation and four optional classes

## Your Career

Most Strathclyde LLB graduates enter the legal profession after completing the Diploma in Professional Legal Practice in Scotland or the Legal Practice Course in England, Wales and Northern Ireland and a two-year traineeship in a law firm. There are also many job opportunities for legally-trained graduates in areas such as finance, management consultancy, teaching, central and local government, human resource management, social work and education.

# LLB Honours English Law

LLB Honours (UCAS M111)

Many country's legal systems are based on the common law premise, making this degree transferable internationally.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 2nd sitting: **AAAAABB** (Advanced Higher in an essay-based subject, eg English, History, Modern Studies)

**A Levels:** Year 1 entry: **AAA-AAB** (GCSE English Language B or Literature B, GCSE Maths C); Year 2 entry: not offered

**IB:** **40** (English HL5, Maths SL)

**HND Legal Services:** Year 1 entry: AAA in Graded Unit and interview. Applicants must have at least three years post-school experience before embarking on further education. Other relevant HND qualifications will be considered on an individual basis; please contact us for advice.

## Additional Information

- Deferred entry is accepted
- Essay-based Highers/Advanced Highers/A Levels recommended, eg Social subjects, Philosophy, Psychology, RMPS
- Experience in a law firm is not expected
- At Strathclyde, Law is also offered as subject in the BA (Honours) degree (see pg 66 for the course description)

## CONTACT

+44 (0)141 548 3738  
hass-courses-law@strath.ac.uk

## Why LLB English Law at Strathclyde?

- Undertake a three-year Honours degree recognised in England, Wales and Northern Ireland
- Graduates will satisfy the qualifying criteria of the Solicitors Regulatory Authority and the Bar Standards Board of England/Wales
- Meet the Northern Ireland Evidence requirement through Honours elective study
- Benefit from high quality research-led teaching at one of Scotland's leading providers of legal education

## Your Studies

This is a three-year Honours degree. The programme incorporates all the subjects required by the regulatory bodies for the purposes of professional qualification.

**Year 1:** English Criminal Law, Law and Society, Legal Methods, English Law of Tort, Public Law 1, English Contract and Restitution, EU Law

**Year 2:** Public Law 2, English Law of Property and Land, English Law of Equity and Trusts, plus choice of options

**Year 3:** dissertation and four optional classes

## Your Career

In addition to being qualified to undertake further training to become a solicitor or barrister in England, Wales and Northern Ireland, graduates have transferable skills which are sought-after in roles such as paralegal, legal researcher, civil servant, company secretary, and teacher, and in areas including financial services and law enforcement. Subject to satisfactory academic performance, graduates of this degree will be qualified to undertake further training to become a solicitor or barrister in England, Wales and Northern Ireland.

# LLB Honours Law with a Modern Language

Law with French (UCAS M1R1)

Law with Italian (UCAS M1R3)

Law with Spanish (UCAS M1R4)

This degree enables you to pursue a law qualification while developing your language skills.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAAB**

2nd sitting: **AAABBBB**

(Higher English B, Higher French or Italian or Spanish B; Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **AAB-BBB** (French or Italian or Spanish B; GCSE English Language B or Literature B, GCSE Maths C); Year 2 entry: not offered

**IB:** **38** (English HL5, Maths SL)

**HND Legal Services:** Year 1 entry: **AAB** in Graded Units; Higher French, Italian or Spanish at B. Applicants must have at least three years post-school experience before embarking on FE study. Other relevant HND qualifications will be considered on an individual basis; please contact us for advice.

## Additional Information

- Deferred entry is accepted
- Essay-based Highers/Advanced Highers/A Levels recommended, eg Social subjects, Philosophy, Psychology, RMPS
- Experience in a law firm is not expected

## CONTACT

+44 (0)141 548 3738

hass-courses-law@strath.ac.uk

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## Why LLB Law with a Modern Language at Strathclyde?

- Enhance your career opportunities with knowledge of the law and languages of an EU member state
- Spend a year in the country of your chosen language studying at one of our partner institutions – develop language skills and cultural awareness,
- The degree is accredited by the Law Society of Scotland
- Gain practical court-room experience through the Mooting Society and enter competitions
- Develop your legal skills as a member of Scotland's largest student-run Law Clinic

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## Your Studies

**Year 1:** Voluntary Obligations: Contract and Promise; Law and Society; Legal Methods; Legal Process; Public Law 1; contemporary language and culture studies in your chosen language

**Year 2:** Criminal Law 1; Public Law 2; Involuntary Obligations; Delict and Unjustified Enrichment; Property; and Introduction to the Civil Law Systems; language exercises including translation and oral practice

**Year 3:** Domestic Relations; Commercial Law; EU Law; and Evidence

**Year 4:** year of study abroad to perfect your language fluency and gain understanding of a foreign culture

**Year 5:** Honours classes in law and dissertation with a legal focus

## Your Career

Most Strathclyde LLB graduates enter the legal profession after completing the Diploma in Professional Legal Practice and a two-year traineeship in a law firm. Law with a Modern Language graduates are well-placed to work professionally in the country of the language they have studied in areas such as industry, commerce, banking and accountancy, and central and local government.

# Philosophy, Politics & Economics

BA Honours (UCAS L0V0)

This is an innovative, interdisciplinary degree which combines learning from three academic disciplines.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

We recognise a wide range of Highers. However, social science subjects should make up the majority of an applicant's profile. In addition to Higher English, at least one Higher should come from the following list: Classical Studies/Drama/Economics/French/Gaelic/Geography/German/History/Italian/Modern Studies/Philosophy/Politics/Psychology/ Religious Moral & Philosophical Studies/ Sociology/Spanish.

**A Levels:** Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **30-32** (Maths SL5)

## Additional Information

- For entry to the three-year degree, applicants must have taken either economics or a suitable quantitative subject (for example Maths) at A Level or Higher

## CONTACT

+44 (0)141 548 4004  
hass-courses-gov@strath.ac.uk

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## Why Philosophy, Politics & Economics at Strathclyde?

- Gain insight into three subject areas – modern governance and business is too complex to be covered by a single subject
- Study a unique combined degree around a social-science based education curriculum underpinned by philosophical rigour
- Opt for a three or four-year Honours degree
- Benefit from the long tradition of excellent research in both economics and politics, which informs quality teaching in a student-friendly environment

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## Your Studies

**Year 1:** topics include Political Philosophy, Comparative Politics, International Relations and Global Politics, Logical and Ethical Reasoning, Microeconomics, Macroeconomics

**Year 2:** you have the opportunity to study abroad in Europe or North America; or continue your studies in Glasgow with classes in Research Methods for Political Scientists, Logic of Scientific Inquiry, Ethics and a broad range of optional classes in politics and economics

**Year 3:** Honours students undertake a dissertation in either Economics or Politics, as well as an interdisciplinary seminar; options are selected from Politics and Economics classes

## Your Career

This degree is designed to train future leaders in government and industry. Graduates will be equipped for careers in government, parliament, research, journalism and broadcasting, and commerce, among many other areas.

# Primary Education

BA Honours (UCAS X120)

A career in Primary Education is both challenging and rewarding, inspiring the learning of future generations.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAB**; 2nd sitting: **AAAB** (Higher English B, plus one from the list below; Maths/Lifeskills Maths National 5 C, or equivalent)

In addition to Higher English, at least one Higher should come from the following list: Art/Classical Studies/Drama/Economics/French/Gaelic/Geography/German/History/Italian/Modern Studies/Music/Philosophy/Politics/Psychology/Religious Moral & Philosophical Studies/Sociology/Spanish.

**A Levels:** Year 1 entry: **ABB-BBB** (GCSE English Language B and English Literature B, GCSE Maths B)

**IB:** **36** (Maths SL5)

**HNC Early Education & Childcare/Childhood Practice:** Year 1 entry: A in Graded Unit, plus two Highers at B (including English) and Maths National 5

**HNC Social Sciences:** Year 1 entry: A in Graded Unit; two Highers at B (including English); Maths National 5 C, or equivalent

**HND Social Sciences:** Year 1 entry: ABB in Graded Units, plus two Highers at B (including English) and Maths National 5 C, or equivalent

## Additional Information

- Students are required to register with the Scottish Government's Protecting Vulnerable Groups scheme

## CONTACT

+44 (0)141 444 8100  
hass-courses-edu@strath.ac.uk

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## Why Primary Education at Strathclyde?

- Study with Scotland's largest provider of Initial Teacher Education
- Undertake an exciting degree programme designed to meet the recommendations of the 2010 Donaldson report, Teaching Scotland's Future
- The programme meets the requirement for provisional registration by the General Teaching Council for Scotland
- Undertake work placements with children and young people from birth to 14 years
- Take advantage of Gaelic-medium placement options

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## Your Studies

**Year 1:** you study Education, two other subjects and undertake a work placement with children before undergoing a selection process to continue on to the primary education programme  
**Years 2 - 4:** classes in Education Studies, Primary Curriculum Studies and Teaching and Learning; school-based placement (Years 2 & 4) and in a nursery (Year 3); study of one of your first-year subjects continues in Year 2, with the opportunity to specialise in a range of curricular subjects (Year 3) and to select a specialism (Year 4); you can choose to study abroad in Year 3; in Year 4 you prepare a dissertation

## Your Career

Primary teachers are faced each day with complex and demanding tasks. Teachers develop, plan, implement and evaluate programmes of study in all curricular areas – Expressive Arts, Health and Wellbeing, Languages, Literacy and English, Mathematics, Religious and Moral Education, Sciences, Social Studies and Technologies. Most of our graduates go on to work as primary school teachers, contributing to the social and personal development of their pupils.

# Psychology & Counselling

BSc Honours (UCAS C8B9)

Study an applied pathway which provides an accelerated route into professional training.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAA**; 2nd sitting: **AAAAB** (Higher English, Maths/Lifeskills Maths National 5 C, or equivalent)

In addition to Higher English, at least one Higher should come from the following list: Classical Studies/Drama/Economics/French/Gaelic/Geography/German/History/Italian/Modern Studies/Philosophy/Politics/Psychology/ Religious Moral & Philosophical Studies/Sociology/Spanish.

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (GCSE English Language B or Literature B, GCSE Maths C)

**IB:** **36** (Maths SL5)

## CONTACT

+44 (0)141 548 2700  
hass-courses-psh@strath.ac.uk

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## Why Psychology & Counselling at Strathclyde?

- Study psychology with an applied focus
- Benefit from training in Person-Centred Counselling
- Gain broad-based knowledge of the core domains of psychology and training in counselling skills
- The degree meets the requirements for Graduate Basis for Chartered Membership with the British Psychological Society
- Develop enhanced interpersonal communication skills
- Gain the award of a COSCA-accredited Counselling Skills certificate

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## Your Studies

**Year 1:** you study Psychology and two other subjects and undergo a selection process to continue into Year 2

**Year 2:** classes in Social and Health Psychology, Cognition and Neuropsychology, Abnormal Psychology, Positive and Humanistic Psychology, Theories of Counselling/Psychotherapy and Introduction to Research Design and Analysis

**Year 3:** Research Methods in Psychology, Individual Differences, Social Psychology, Person-Centred Theory, Personal Development and Counselling Skills practical sessions

**Year 4:** Honours students undertake a dissertation in psychology; classes cover Development, Cognition and Psychobiology; practical experience in counselling skills and/or counselling research continues with the opportunity to volunteer in a community setting or work on a counselling research project

## Your Career

The programme offers a route to further postgraduate study in Counselling, Counselling Psychology or Psychology, or for employment in other professional roles (eg support work) which would benefit from counselling skills training and an understanding of counselling theory. Our current courses meet the requirements for the Graduate Basis for Chartered Membership (GBC) with the British Psychological Society (BPS), and a COSCA-accredited Certificate in Counselling Skills, and accreditation for this course is currently being sought.

“

My course is preparing me to achieve my goal of becoming a children and family social worker through high-quality placements and specialist classes, including the chance to study in New York and I've received funding support from the Robertson Trust. There's always someone to ask for help and advice – as a care leaver, I've personally had great support from the widening access team.

ROSANNA MOORE  
SOCIAL WORK

”



# Social Work

BA Honours (UCAS L501)

Social workers have a responsibility to promote the rights of powerless people, and protect the vulnerable and disadvantaged.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 2nd sitting: **ABBB** (entry generally from S6) (English [or a social subject] B, Maths/Lifeskills Maths National 5 C, or equivalent)

**A Levels:** Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, GCSE Maths B)

**HNC/HND:** Year 1 entry: HNC in Social Care, Social Sciences, Early Education and Child Care, Counselling, Working with Communities, and Learning and Development, A in Graded Unit; Year 2 entry: relevant HNC/HND plus minimum six months relevant and challenging work experience

## Additional Information

- We look for evidence of professional suitability through a follow-up questionnaire and character reference; registration with Protecting Vulnerable Groups scheme is required (offending history does not exclude you from consideration)
- Suitable candidates with less than six months relevant experience of working with vulnerable people will be interviewed; those with experience may be selected on the basis of their application form

## CONTACT

+44 (0)141 444 8700  
enquiries.swsp@strath.ac.uk

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## Why Social Work at Strathclyde?

- Benefit from a blend of university and agency-based opportunities
- Prepare for the challenging role of a social worker through opportunity to interact with service users and their carers
- Complete three placements in social work and not-for-profit settings
- Validated by the Scottish Social Services Council
- Study abroad in one of our partner institutions
- Benefit from high levels of staff interaction

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## Your Studies

**Year 1:** classes include Preparing for Lifelong Learning, Understanding Social Science and Social Research, Psychology for Social Work, Poverty, Disadvantage and Discrimination, Values, Ethics and Justice

**Year 2:** topics such as People, Communities and Society, Social Work Organisation and Collaborative Practice, Social Work Processes and Practices, Law for Social Work; observational placement

**Year 3:** 80-day placement in a social work agency and classes in Social Research for Social Work and Social Work in a Global Context

**Year 4:** 80-day placement and Honours dissertation

## Your Career

Graduates work in all levels of social work including senior management positions, local authorities and in the independent sector. Job titles of recent graduates include Criminal Justice Social Worker and Residential Child Care Worker.

# Speech & Language Pathology

BSc Honours (UCAS B630)

Speech and language therapists assess and treat a variety of speech, language and communication problems.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAB/AABBB**

2nd sitting: **AAABB** or **AABBBB** (Higher English B; Maths, and a science (Chemistry, Biology, Physics, Engineering Science or Computing Science), all at minimum National 5 C, or equivalent; another language at National 5 C is recommended)

**A Levels:** Year 1 entry: **AAB-ABB** (GCSE English Language C or Literature C; GCSE Maths, a science (Chemistry, Biology, Physics or Computing) at GCSE C; another language at GCSE C is recommended)

**IB: 32** (English HL6; Maths and a science (Chemistry, Biology, Physics, Technological Studies or Computer Science), all at a minimum SL5; another language, eg French, Spanish, Italian, German at SL5 is recommended)

**HND (adult returners):** health and social care course: AAB in Graded Units, plus Higher English and passes in Maths, a science and a language as above

## Additional Information

- Deferred entry is accepted
- Your personal statement should show knowledge of communication difficulties and the work of speech and language therapists
- Applicants whose first language is not English require IELTS (7.5) with no less than 7 in any of the four components

## CONTACT

+44 (0)141 548 2700  
hass-courses-psh@strath.ac.uk

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## Why Speech & Language Pathology at Strathclyde?

- Benefit from participating in the longest established degree in Scotland and one of the oldest in the UK
- Approved by the Health and Care Professions Council, our degree provides a route into the profession
- Undertake clinical placements throughout the course in schools, nurseries and hospitals
- Study a combination of language and scientific elements
- Study abroad in one of our partner institutions
- Learn in our speech research lab using specialist equipment and software

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## Your Studies

**Year 1:** classes cover phonetics, linguistics, anatomy and physiology; one-week placement

**Year 2:** topics include adult aphasia, dysarthria and swallowing disorders, neurological and development disorder, audiology and ENT; placement of two days per week for eight weeks

**Year 3:** learn about communication in lifelong conditions, fluency, voice and counselling and adult communication disorders; placement as in Year 2

**Year 4:** research investigation; and advanced study options; placement of two days per week for 10 weeks, plus additional one-week block

## Your Career

Our graduates have close links with the education and health sectors and many are based in hospitals. Graduates are eligible to apply for registration with the Health and Care Professions Council. Employers of recent graduates include Down's Syndrome Scotland, Erskine Hospital for Ex-Servicemen, Mencap, National Autistic Society, and the National Health Service.



“

As a mature student, starting university was exciting and challenging. The Mature Student Association facilities are useful and as a family carer I have been supported by the Counselling Service and the Widening Access team. Placements and lectures from expert practitioners link learning to practice and provide insight into the profession.

CLAIRE GREEN  
SPEECH & LANGUAGE PATHOLOGY

”

# Sport & Physical Activity

BSc Honours (UCAS CX63)

Sport and physical activity lead to health benefits and affect our sense of wellbeing and pride.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** 1st sitting: **AAAB**

2nd sitting: **AAABB**

(English B, Maths and/or a science at B)

**A Levels:** Year 1 entry: **ABB-BBB**

(GCSE English Language B or Literature B or equivalent, GCSE Maths and/or a science (Biology preferred) B)

**IB:** **36** (English SL5 or equivalent, Maths and/or a science SL5)

**HNC:** Year 1 entry: relevant HNC (eg Sports Coaching with Development of Sport; Fitness, Health and Exercise; and Applied Sports Science) B in the Graded Unit; Higher English B (or equivalent); other courses may be considered on an individual basis

## Additional Information

- Deferred entry is accepted
- Your personal statement must demonstrate a real commitment to sport and/or physical activity and an enthusiasm for working with others

## CONTACT

+44 (0)141 548 2700

hass-courses-psh@strath.ac.uk

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## Why Sport & Physical Activity at Strathclyde?

- Develop the knowledge and skills to make a positive impact on health and physical activity in a wide range of settings
- Opportunities to get involved in cutting-edge, internationally-recognised research
- Learn from top sporting coaches about their methods
- Access to human performance and body composition labs on campus
- Progress to Physical Education teaching
- Work towards National Governing Body coaching awards

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## Your Studies

**Year 1:** you learn about the culture and context of sport and physical activity, physiology and biomechanics, sport and physical activity psychology

**Year 2:** classes cover coaching practice and sport development, physiology of aerobic exercise and physical activity for health, fitness and wellbeing

**Year 3:** 50-hour work placement and research project, choice of optional classes such as nutrition for health and exercise, biomechanics of human movement, physical education in schools and topics in sport and exercise psychology

**Year 4:** dissertation, practical project option and optional classes as in Year 3

## Your Career

Our graduates are employed in areas such as coaching, health promotion and sport development with job titles such as group games coordinator, gym instructor, head coach and lifestyle coach.

# Teaching Degrees with Science

Teaching science will inspire future generations with your passion for the subject.

## ENTRY REQUIREMENTS SUMMARY

(for full details, please see the relevant course description)

**Chemistry with Teaching**  
MChem (UCAS F1XC)  
Highers: **AABB**

**A Levels:** Year 1 entry: **ABB-BBB**;  
Year 2 entry: **AAA-ABB**

**Mathematics with Teaching**  
BSc Honours (UCAS G1XC)  
**Physics with Teaching**  
BSc Honours (UCAS F3XC)  
Highers: 1st sitting: **AABB**

**A Levels:** Year 1 entry: **ABB-BBB**;  
Year 2 entry: **AAA-ABB**

## Additional Information

- Entry to the teaching profession requires membership of the Protecting Vulnerable Groups Scheme; the procedure will be detailed during the application process

## CONTACT

+44 (0)141 444 8100  
hass-courses-edu@strath.ac.uk

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## Why Teaching with a Science at Strathclyde?

- Opportunity to integrate Chemistry, Mathematics or Physics with the Professional Graduate Diploma in Education which is recognised throughout the world
- Cover the core syllabus of the relevant degree, plus the curriculum and classroom experience required for General Teaching Council for Scotland recognition
- Learn with Scotland's largest provider of Initial Teacher Education
- Become eligible to enter the paid probationary year in teaching

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## Your Studies

### MChem Chemistry with Teaching

(in collaboration with the Department of Pure & Applied Chemistry, see pg 95 for course description and full entry requirements)

**Years 1 - 3:** Years 1 to 3 are spent in the Department of Pure & Applied Chemistry, covering all the important areas of this science

**Year 4:** Year 4 is spent in the School of Education and in schools, gaining the professionally-accredited teacher training component (equivalent to a Professional Graduate Diploma in Education)

**Year 5:** your final year is back with Chemistry where your research project will incorporate educational approaches to chemistry

### Mathematics or Physics with Teaching

(in collaboration with the Department of Mathematics & Statistics/ Physics, see pg 109 and 114 for course descriptions and full entry requirements)

**Years 1 & 2:** you concentrate mainly on your chosen subject

**Year 3:** one third of the course is in the educational sphere with input from staff in the Faculty of Humanities & Social Sciences and a series of work placements in primary and secondary schools

**Year 4:** more emphasis is given to teaching with educational-based issues and placement experience in semester 2

## Your Career

Graduates will be eligible to enter the paid probationary year in teaching. The degree is recognised as a teaching qualification throughout the world.

# FACULTY OF SCIENCE

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# PHYSICS WAS RATED NO 1 IN THE UK FOR RESEARCH QUALITY IN THE 2014 RESEARCH EXCELLENCE FRAMEWORK. OUR RESEARCH POWER IN THE FIELDS OF PHARMACY & BIOMEDICAL SCIENCES WAS AWARDED 4TH IN THE UK AND 1ST IN SCOTLAND, AND CHEMISTRY WAS 4TH IN THE UK.

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**The Faculty of Science is one of the UK's leading schools of science, providing a vibrant, dynamic, supportive and friendly place to study. We investigate the challenges and possibilities of the natural and technological world, from drug discovery and public health to environmental concerns, tackling cybercrime and understanding space.**

Delivered by world-class academics and researchers, our undergraduate degrees provide the opportunity to gain an invaluable qualification which will give you the knowledge and skills required to enhance your career prospects. Students are offered high-quality teaching, informed by innovative research, and strong links with industry, the NHS and international partners.

In choosing to study Science at Strathclyde you will become part of an international community of staff and students from more than 40 countries.

Our facilities are excellent, with well-equipped, modern laboratories and teaching rooms, plus 24-hour access to an advanced computer information network and a sophisticated virtual e-learning environment.

Our Integrated Masters degrees (MChem, MEng, MMath, MPharm, MPhys, MSci) take you beyond the traditional Honours degree into study at Masters level. These are five-year full-time courses, with the exception of the MPharm which takes four years. Our degree structure allows you to transfer between similar subject areas up to the beginning of Year 2, or later.

Well-qualified applicants with appropriate A Levels and Advanced Highers will be admitted to the Faculty's prestigious 'High Flyer' Programme, which allows completion of an Honours degree in three years and an Integrated Masters degree in four.

# Biomolecular Science Degrees

Have an impact on the development of new or improved medicines and the treatment of disease.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MSci

**Highers:** Year 1 entry: **AAAB/AABBC** (Chemistry B, Biology/Human Biology B, Maths and English National 5 B); Year 2 entry: Advanced Highers **AB** (Chemistry B, Biology/Human Biology B, plus Year 1 above)

**A Levels:** Year 1 entry: **ABB-BBB** (Chemistry B, Biology B, GCSE Maths B, GCSE English Language B or Literature B); Year 2 entry: **AAA-ABB** (Chemistry and Biology (AB/BA), Maths and English as for Year 1 entry)

**IB: 34** (two science subjects – Chemistry/Biology/Physics HL5, English SL5, Maths SL5)

**HNC/HND:** Year 1 entry: HNC, Graded Unit A/HND, Graded Units BB; Year 2 entry: HND, Graded Units AB; Year 3 entry: HND, Graded Units AA

### BSc Honours

**Highers:** Year 1 entry: **AABB/AAAC** (two sciences – Biology/Human Biology B or Chemistry B; Chemistry (if not Higher) National 5 B; Maths and English National 5 B); Year 2 entry: Advanced Highers **BB** (Chemistry B, Biology/Human Biology B, plus Year 1 above)

**A Levels:** Year 1 entry: **ABB-BBB** (two sciences, – Biology B or Chemistry B; Chemistry (if not at A Level) GCSE B; GCSE Maths B, GCSE English Language B or Literature B); Year 2 entry: **AAA-ABB** (Chemistry and Biology (AB/BA), Maths and English as for Year 1 entry)

**IB: 32** (two science subjects (Chemistry/Biology/Physics) HL5; English SL5; Maths SL5)

**HNC/HND:** Year 1 entry: HNC, Graded Unit B; Year 2 entry: HNC, Graded Unit A or HND, Graded Units BB; Year 3 entry: HND, Graded Units AB

### Additional Information

- Deferred entry is accepted

### CONTACT

+44 (0)141 548 2202  
sipbs-biomed@strath.ac.uk

## Why Biomolecular Science at Strathclyde?

- Our courses are underpinned by our strong research base, links with industry, the NHS and international partners
- Accreditation by the Royal Society of Biology
- Opportunity to study and take part in lab-based research abroad
- Choose at the end of Year 2 to progress to single, joint Honours or an Integrated Masters degree in any of the biomolecular sciences
- Our MSci programmes are appropriate if you are interested in an academic or research-related career

## Flexible Degree Options

You can choose from the following degree programmes all of which have a common curriculum in Years 1 & 2. This means that whichever degree you apply for, you can defer your ultimate choice of degree until you have experienced introductory classes in each of the subjects.

All our BSc (Honours) degrees are accredited by the Royal Society of Biology. The BSc Honours Biomedical Science also has accreditation from the Institute of Biomedical Science.

### MSci/BSc Single Honours

- Biochemistry (UCAS MSci C720/BSc C721)
- Immunology (UCAS MSci C550/BSc C551)
- Microbiology (UCAS MSci C500/BSc C501)
- Pharmacology (UCAS MSci B211/BSc B212)

### BSc Joint Honours

- Biochemistry & Immunology (UCAS CC79)
- Biochemistry & Microbiology (UCAS CC75)
- Biochemistry & Pharmacology (UCAS CB72)
- Immunology & Microbiology (UCAS CC59)
- Immunology & Pharmacology (UCAS CB92)
- Microbiology & Pharmacology (UCAS C502)

### BSc Honours

Biomedical Science (UCAS C192)

## Your Studies

The programme has five major subject strands:

- Biochemistry
- Immunology
- Microbiology
- Pharmacology
- Biomedical Science

You can choose to specialise in two of the four biomolecular science subjects to joint Honours or in one subject to single Honours. These degrees take four years. There is also an option to continue to a research-based fifth year and graduate with an MSci.

The four-year BSc Honours Biomedical Science programme has its own curriculum from Year 3 and is designed to equip graduates with the skills for future NHS employment.

In Years 1 & 2 all biomolecular students study the same classes.

**Year 1:** introduces fundamental biological concepts in biomolecular sciences and biological chemistry; laboratory classes combine specialist and transferable practical skills with statistical analysis and data interpretation and presentation; you also choose two elective subjects from other departments across the University

**Year 2:** you take classes in the four subject disciplines in Introduction to Immunology, Pharmacology, Microbiology, Biochemistry; laboratory classes will develop the skills acquired in Year 1 and introduce some discipline-specific techniques

**Year 3:** in lectures you develop the discipline-specific knowledge acquired in Year 2, taking two classes per discipline stream; laboratory classes cover the skills required; those on the IBMS-accredited Biomedical Science degree stream will take classes in Biomedical Microbiology, Immunology, Biochemistry and Fundamental Bioscience Haematology, Immunohaematology, and Immunodiagnostics

**Year 4:** you can opt to specialise in particular disciplines or focus on topics within biomolecular sciences that match your career expectations; to progress to single Honours you take three types of discipline-specific classes – Advanced, Clinical and Applied and an option class; research project class to develop research skills in preparation for the final-year project

**Year 5 (MSci only):** you develop research experience in one of the biomolecular sciences disciplines and carry out an extended laboratory project using a range of specialised techniques to address a research-led problem; classes in Research Methods and Ethics, and discipline-specific Research Topics

## Subjects Overview

### Biochemistry

Biochemistry is the study of the biological systems at the molecular level and develops understanding of the molecular basis of life, and how alteration of these molecular pathways leads to disease processes.

### Immunology

Immunology is the study of how the body defends itself against disease, includes not only defence against bacteria, parasites or viruses, but also the elimination of cancer and processes such as inflammation and wound healing. It also helps us understand how the immune system is misdirected into attacking the body's own tissue, leading to diseases like rheumatoid arthritis, diabetes, or allergy.

### Microbiology

Microbiology is the study of the smallest living organisms such as viruses, bacteria, fungi, algae and protozoa. Microbes are a major cause of disease but they can also be useful in industrial processes.

### Pharmacology

Pharmacology studies how drugs and other chemicals affect the functions of the body and underpins the development of new or improved medicines and the treatment of disease.

## Your Career

Graduates have found jobs in the development of drugs, food processing, protecting the environment, fighting disease or slowing the ageing process. Recent graduates are working in a variety of positions including research in academia, NHS and private sector laboratory technician, clinical support worker, and in areas such as medical writing, clinical drug trials, medical sales, and production control.

The transferable skills you gain will prepare you for a career not only in science but also in areas such as finance, management, marketing, sales, business and media.

IBMS accreditation of the BSc Honours in Biomedical Science ensures that this degree meets the academic requirements for registration as a biomedical scientist with the Health and Care Professions Council which is essential if you wish to pursue a career in an NHS laboratory.

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I recommend getting involved in clubs and societies – course-specific societies are a great way to meet other people on your course, and you can get involved in student representation through the students' association. The University Careers Service is a great resource for finding internships and placements, getting advice on job applications and checking your CV.

YACINE BENRAHAL  
IMMUNOLOGY

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# Chemistry

MChem (UCAS F103 – also entry route for BSc Honours degrees)

## Unravel the mysteries of molecular structure and reactivity.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets

Note: All students are admitted as prospective MChem Honours students and can switch to the following BSc Honours schemes later: Chemistry/Chemistry with Analytical Chemistry/Chemistry with Drug Discovery/Forensic Chemistry

**Highers:** Year 1 entry: **ABBB/AABC** (Chemistry, Maths, Physics or Biology/Human Biology, English preferred as fourth subject)

Advanced Higher Chemistry and Maths recommended for S6 study

**A Levels/Advanced Highers\*:** Year 2 entry: **AAA-ABB** (Chemistry, Maths, Physics or Biology)

**IB\*:** Year 2 entry: **30** (Chemistry, Maths, Physics or Biology all at HL)

**HNC/HND:** Year 1 entry: relevant HNC, B in Graded Unit; Year 2 entry: relevant HND, BBB in Graded Units

\* Those with A Levels, Advanced Highers or IB HL in only two of the preferred subjects will be considered for Year 1 entry

### Additional Information

- Deferred entry is accepted

### RELATED COURSES

- Applied Chemistry & Chemical Engineering (pg 96)
- Chemistry with Drug Discovery (pg 97)
- Chemistry with Teaching (pg 98)
- Forensic & Analytical Chemistry (pg 101)

### CONTACT

+44 (0)141 548 2282  
chemistry.enquiry@strath.ac.uk

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## Why Chemistry at Strathclyde?

- Benefit from our industrial placement scheme, strong industry links and close relationships with professional bodies
- Option to switch between other MChem courses and BSc degrees, such as BSc (Honours) Chemistry, up to Year 3
- AstraZeneca and GlaxoSmithKline offer a bursary scheme for undergraduates in chemistry
- Accredited by the Royal Society of Chemistry
- Study of pure and applied chemistry provides maximum flexibility when choosing a career path

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## Your Studies

**Year 1:** foundation classes in Chemistry, Mathematics, and Physics or Biology; practical laboratory sessions help you to master the basic preparative and analytical skills; non-chemistry elective from other disciplines across the University

**Years 2 & 3:** fundamental Inorganic, Organic, Biological and Physical Chemistry; non-chemistry elective as in Year 1

**Year 4:** MChem students normally undertake a paid 12-month industrial placement which can be in the UK or abroad

**Year 5:** specialise in the areas and applications that interest you most and undertake a research project

## Your Career

A degree in chemistry opens doors to a wide range of job opportunities. The range of available roles is considerable and covers many different types of chemistry and industries such as nanotechnology, large-scale chemical plants, the drinks and pharmaceutical industries and teaching. Recent graduate job titles include chemical analyst, graduate scientist, industrial chemist, laboratory chemist and research chemist.

# Applied Chemistry & Chemical Engineering

MSci (UCAS FH18)

This hybrid degree was created to bridge the knowledge gap between engineers and chemists.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MSci

**Highers:** Year 1 entry: **AAAB** (Chemistry, Maths, Physics, English preferred as fourth subject)

Advanced Higher Chemistry and Maths recommended for S6 study

**A Levels/Advanced Highers\*:** Year 2 entry: **AAA-ABB** (Chemistry, Maths, Physics)

**IB\*:** Year 2 entry: **34** (Chemistry, Maths, Physics all at HL)

**HNC/HND:** HNC: Year 1 entry: relevant HNC, A in Graded Unit; HND: Year 2 entry: relevant HND, AAA in Graded Units

\* Those with A Levels, Advanced Highers or IB HL in only two of the preferred subjects will be considered for Year 1 entry

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Chemistry (pg 95)
- Chemistry with Drug Discovery (pg 97)
- Chemistry with Teaching (pg 98)
- Forensic & Analytical Chemistry (pg 101)

## CONTACT

+44 (0)141 548 2282  
chemistry.enquiry@strath.ac.uk

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## Why Applied Chemistry & Chemical Engineering at Strathclyde?

- Benefit from bursary schemes available for Chemistry undergraduates
- Extensive practical work provides the preparative and analytical skills which employers are looking for
- Dual accreditation from the Royal Society of Chemistry and the Institution of Chemical Engineers
- Opportunity to undertake projects in industry or at one of our partner universities abroad
- Gain expertise to transform small-scale laboratory practice into industrial-scale chemical operations

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## Your Studies

**Years 1:** supported by group tutorials and workshops, topics include Principles and Practice of Chemistry and Chemical Engineering, foundation classes in Mathematics and practical chemistry laboratory sessions

**Years 2 & 3:** specialist classes such as Fluid Flow and Heat Transfer, Practical Preparative and Physical Chemistry, Mass Transfer and Separation Processes, and Reactors; lab work increases and your practical skills are enhanced with computer modelling and group exercises to develop communication skills

**Year 4:** detailed chemical engineering-focused research project, undertaken in the Department of Chemical & Process Engineering  
**Year 5:** chemistry research project – working with a research group using your practical skills and knowledge to solve a new chemical challenge

## Your Career

Our graduates are working in a range of roles such as analytical chemist, chemical engineer, project engineer, technical associate, research analyst, process safety engineer and development chemist.

# Chemistry with Drug Discovery

MChem (UCAS F190)

Invent better, safer drugs in order to fight and cure diseases from Ebola to MRSA and cancer.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/AAAC** (Chemistry, Maths, Physics or Biology/Human Biology, English preferred as fourth subject)

Advanced Higher Chemistry and Maths recommended for S6 study

**A Levels/Advanced Highers\*:** Year 2 entry: **AAA-ABB** (Chemistry, Maths, Physics or Biology)

**IB\*:** Year 2 entry: **34** (Chemistry, Maths, Physics or Biology all at HL)

**HNC/HND:** Year 1 entry: possible with relevant HNC, A in Graded Unit. Year 2 entry: possible with relevant HND, AAA in Graded Units

\* Those with A Levels, Advanced Highers or IB HL in only two of the preferred subjects will be considered for Year 1 entry

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Applied Chemistry & Chemical Engineering (pg 96)
- Chemistry (pg 95)
- Chemistry with Teaching (pg 98)
- Forensic & Analytical Chemistry (pg 101)

## CONTACT

+44 (0)141 548 2282  
chemistry.enquiry@strath.ac.uk

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## Why Chemistry with Drug Discovery at Strathclyde?

- Unique course in Scotland, designed in consultation with major UK drug manufacturers
- Accredited by the Royal Society of Chemistry as fully meeting the educational requirement to become a Chartered Chemist
- Benefit from 12-month paid industrial placement
- Gain extensive practical laboratory experience
- Options to study or undertake placement year abroad
- Our relationships with GlaxoSmithKline and AstraZeneca enhance your career prospects

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## Your Studies

**Year 1:** foundation classes in Chemistry and Mathematics, and Physics or Biology; specialist classes such as Use and Abuse of Drugs in Society and Pharmaceutical Sciences and Drug Development

**Years 2 & 3:** fundamental Inorganic, Organic, Biological and Physical Chemistry; laboratory work increases

**Year 4:** paid 12-month industrial placement, normally in the pharmaceutical industry either in the UK or abroad

**Year 5:** specialise in the areas and applications that interest you most and undertake a research project

## Your Career

This course maximises your opportunity of employment in the medicinal chemistry and pharmaceutical industries. Recent graduates are employed in roles such as drug discovery chemistry research scientist, chemistry research scientist, regulatory affairs executive, scientific communication specialist, drug sales manager and other roles in the pharmaceutical industry. Your skills will also be in demand in other areas.

# Chemistry with Teaching

MChem (UCAS F1XC)

Teachers convey the exciting challenges chemists face and the importance of continuous discovery to our daily lives.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/AAAC** (Chemistry, Maths, Physics or Biology/Human Biology, ‡English C)

Advanced Higher Chemistry and Maths recommended for S6 study

**A Levels/Advanced Highers\*:** Year 2 entry: **AAA-ABB** (Chemistry, Maths, Physics or Biology, ‡GCSE English Language C and Literature C or ‡Higher English C)

**IB\*:** Year 2 entry: **34** (Chemistry, Maths, Physics or Biology all at HL, ‡English SL6)

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit. Year 2 entry: relevant HND, AAA in Graded Units

\* Those with A Levels, Advanced Highers or IB HL in only two of the preferred subjects will be considered for Year 1 entry

‡ General Teaching Council for Scotland minimum English requirement

## Additional Information

- Deferred entry is accepted
- Membership of the Protecting Vulnerable Groups Scheme required
- Suitably-qualified applicants are formally interviewed in Year 2

## RELATED COURSES

- Applied Chemistry & Chemical Engineering (pg 96)
- Chemistry (pg 95)
- Chemistry with Drug Discovery (pg 97)
- Forensic & Analytical Chemistry (pg 101)

## CONTACT

+44 (0)141 548 2282  
chemistry.enquiry@strath.ac.uk

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## Why Chemistry with Teaching at Strathclyde?

- Combine a Royal Society of Chemistry-accredited MChem course with the education theory and classroom experience required for recognition by the General Teaching Council for Scotland
- Study a dual-accredited course at a higher level than anywhere else in the UK
- Opportunities to move between careers in secondary education and the chemical industry
- Benefit from AstraZeneca and GlaxoSmithKline bursary scheme for chemistry undergraduates

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## Your Studies

**Years 1 - 3:** foundation classes in Chemistry and Mathematics, and Physics or Biology; classes in Forensic Science, Drug Discovery and Chemical Engineering may be chosen; practical chemistry laboratory sessions help you to master the basic preparative and analytical skills; in the later years, you take classes in fundamental Inorganic, Organic, Biological and Physical Chemistry and laboratory work increases

**Year 4:** you complete the Initial Teacher Education component in the School of Education, which includes teaching practice in schools

**Year 5:** specialise in the areas and applications that interest you most and undertake a research project in chemistry or in education

## Your Career

Most graduates follow the career path of a secondary teacher but you can also compete successfully for jobs in all branches of the chemical industry such as industrial chemist, research scientist, and scientific communication specialist. There are also opportunities for chemists in other areas such as national and local government services, in hospitals and in education at all levels.



“

I've found that university is about much more than just your degree. Loving your chosen subject is key but you learn valuable lessons from experiencing a new level of independence and from the unique people you meet. The University library has been my second home. 24-hour opening, with a café and staff available to help, has made studying easier.

HAYLEY RUSSELL  
CHEMISTRY WITH TEACHING

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“

I'm from Northern Ireland and I chose Strathclyde because my course is Royal Society of Chemistry-accredited which is an advantage in the graduate job market. The flexibility of my degree allows me to choose elective subjects to help me decide what career path I want to follow. The lab sessions are a real highlight. You can work independently and improve your skills.

HANNAH MINSHULL  
FORENSIC & ANALYTICAL CHEMISTRY

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# Forensic & Analytical Chemistry

MChem (UCAS FF41)

Develop specialist knowledge and practical skills in forensic science and analytical chemistry.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/AAAC** (Chemistry, Maths, Physics or Biology/Human Biology, English preferred as fourth subject)

Advanced Higher Chemistry and Maths recommended for S6 study

**A Levels/Advanced Highers\*:** Year 2 entry: **AAA-ABB** (Chemistry, Maths, Physics or Biology)

**IB\*:** Year 2 entry: **34** (Chemistry, Maths, Physics or Biology all at HL)

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit; Year 2 entry: relevant HND, AAA in Graded Units

\* Those with A Levels, Advanced Highers or IB HL in only two of the preferred subjects will be considered for Year 1 entry

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Applied Chemistry & Chemical Engineering (pg 96)
- Chemistry (pg 95)
- Chemistry with Drug Discovery (pg 97)
- Chemistry with Teaching (pg 98)

## CONTACT

+44 (0)141 548 2282  
chemistry.enquiry@strath.ac.uk

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## Why Forensic & Analytical Chemistry at Strathclyde?

- Learn from leading analytical scientists, and forensic scientists actively involved in forensic casework
- Develop as an all-round analytical chemist with a thorough training in the applications of forensic science
- Undertake a 12-month paid industrial placement
- Opportunity to study for a year at a European university or undertake industrial placement abroad
- Unique course in the UK, with dual professional accreditation from the Royal Society of Chemistry and Chartered Society of Forensic Sciences

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## Your Studies

**Year 1:** foundation classes in Chemistry and Mathematics, and Physics or Biology; choice of elective classes including Forensic Science, Drug Discovery and Chemical Engineering; you spend one afternoon in the laboratory and the rest of your time in lectures and tutorials

**Years 2 & 3:** specialist classes in Inorganic, Organic, Biological, Physical and Analytical Chemistry and Forensic Trace Analysis; laboratory work increases to four afternoons per week

**Year 4:** 12-month paid industrial placement, specialising in either forensic or analytical chemistry; academic research and knowledge exchange placements are also available

**Year 5:** specialist topics including DNA Analysis, Toxicology, Process Analytical Chemistry and Atomic/Nuclear Spectroscopy; research project and dissertation in a specialist topic of your choice

## Your Career

Graduates have a wide range of employment opportunities including chemistry-oriented careers such as analytical scientist, pharmaceutical scientist, environmental scientist, forensic scientist, nanotechnologist and large scale industrial chemist.

# Computer Science

MEng (UCAS G401)/  
BSc Honours (UCAS G400)

Develop ground-breaking  
technology to protect and  
enhance people's lives.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MEng

**Highers:** Year 1 entry: **AAAA/AAABB** (Maths B, Computing Science recommended)

**A Levels:** Year 1 entry: **AAB-BBB** (Maths B, Computer Science recommended)

**IB:** **36** (Maths HL6, Computer Science recommended)

**HNC/HND:** Entry is to BSc (Honours) Computer Science or BSc (Honours) Software Engineering in the first instance

### BSc Honours

**Highers:** Year 1 entry: **AAAB/AABBB** (Maths B, Computing Science recommended); Year 2 entry: grades as above, including Advanced Higher Maths and Computing Science at AB/BA and three other Higher subjects at ABB

**A Levels:** Year 1 entry: **ABB-BBB** (Maths B, Computer Science recommended); Year 2 entry: **AAA-ABB** (Maths and Computer Science AB/BA)

**IB:** **34** (Maths HL5; Computer Science recommended)

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit, Maths modules or Maths Higher recommended; Year 2 entry: relevant HND, AA in Graded Units, Maths modules or Maths Higher recommended

### Additional Information

- Deferred entry is not accepted
- Offers may be made at above minimum requirements

### RELATED COURSE

- Mathematics & Computer Science (pg 107)
- Software Engineering (pg 115)

### CONTACT

+44 (0)141 548 3189  
admissions@cis.strath.ac.uk

## Why Computer Science at Strathclyde?

- Develop the in-depth understanding of computer science required to develop sophisticated computing systems
- Acquire excellent practical skills alongside theoretical understanding
- Benefit from undertaking industry-linked projects
- Gain analytical, design and communication skills and the ability to work as part of a team
- 12-week paid industrial placement for MEng students
- Accredited by the British Computer Society

## Your Studies

**Year 1:** learn foundation skills such as programming and computer systems organisation and look at the concepts of computation and information; you also take a business technology class

**Year 2:** subjects include algorithms, databases, logic, the analysis and design of large systems, and how to ensure that the systems are usable; you develop your programming skills further

**Years 3 & 4:** study more specialised areas and take part in a large group-based software development project; classes include Mobile App Development, Artificial Intelligence, Information Access and Mining, Digital Forensics and Programming Language Definition and Implementation; between Years 3 and 4, and/or Years 4 and 5, MEng students undertake a 12-week paid industrial placement, working as part of a software systems development team either in the UK or abroad

**Year 5 (MEng only):** group project to design, implement and market a sizable software system using some of the practices encountered during the industrial placement; further selection of specialist classes such as Data Analytics, Designing Usable Systems, Information Systems Architecture and Advanced Topics in Software Engineering

## Your Career

Our graduates enter a range of companies, either specialising in areas of computer science such as analysis, software development or evaluation, or as computer specialists in other disciplines such as medicine, space technology or the entertainment industry.

# Data Analytics

BSc Honours (UCAS I3H9)

Examining raw data using advanced computing technologies is a fundamental part of business and industry.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/ABBBC** (Maths A, Advanced Higher Maths recommended)

**Advanced Highers:** Year 2 entry: **AB** (Maths A, Computing Science B, involving an appropriate programming language)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths B); Year 2 entry: **AAA-ABB** (Maths A, Computer Science B, involving an appropriate programming language)

**IB:** **32** (Maths HL6, Computer Science, involving an appropriate programming language)

**HNC:** Year 1 entry: relevant HNC with strong mathematical content, B in Graded Unit; Year 2 entry: not offered

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Mathematics/Mathematics & Statistics (pg 104)
- Mathematics, Statistics and a Business Subject (pg 106)
- Mathematics & Computer Science (pg 107)
- Mathematics & Physics (pg 108)
- Mathematics with Teaching (pg 109)

## CONTACT

+44 (0)141 548 3804  
mathstat-ugselector@strath.ac.uk

## Why Data Analytics at Strathclyde?

- Gain experience in using data analysis software, including those widely used in industry
- Develop expertise in a wide range of topics in mathematics, statistics and computer science
- Learn to code using industry-standard programming languages
- Opportunity to work on real-life problems and analyse data through our business and industry links
- Demand for graduates with skills in data analytics is forecast to rise rapidly

## Your Studies

**Years 1 & 2:** study core methods in mathematics and statistics, including calculus, geometry, analysis and probability theory; Computer Science classes include machines, languages and computation, information and information systems, programming foundations, logic and algorithms, and user and data modelling

**Years 3 & 4:** choose from a selection of topics including experimental design, risk analysis, survey analysis, dynamic modelling, network analysis, computer programming, software engineering, artificial intelligence, web and mobile applications, information access and mining, and the theory of computation; your final-year project may be carried out in either subject; we work with companies and organisations which provide suggestions for individual and group projects

## Your Career

Graduates are in high demand across all sectors, both nationally and internationally. The Tech Partnership and SAS UK forecast demand to increase by 160% between 2013 and 2020. Job titles can include data analyst, data scientist, systems analyst, computer programmer, for employers such as Google, Yahoo and Amazon.

# Mathematics/ Mathematics & Statistics

MMath (UCAS G101)/  
BSc Honours (UCAS G100)  
(also entry routes for MMath/  
BSc Honours Maths & Statistics)

Mathematics underpins  
business and finance as well  
as scientific and industrial  
research and development.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MMath

**Highers:** Year 1 entry: **AAAB/AABBB** (Maths A;  
Advanced Higher Maths recommended)

**Advanced Highers:** Year 2 entry: **AA** (Maths A)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths A);  
Year 2 entry: **AAA-ABB** (Maths A)

**IB:** **34** (Maths HL6)

**HNC:** entry to BSc in first instance

### BSc Honours

**Highers:** Year 1 entry: **AABB/ABBB** (Maths A,  
Advanced Higher Maths recommended)

**Advanced Highers:** Year 2 entry: **AB** (Maths A)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths B);  
Year 2 entry: **AAA-ABB** (Maths A)

**IB:** **32** (Maths HL6)

**HNC:** Year 1 entry: relevant HNC with strong  
mathematical content, B in Graded Unit;  
Year 2 entry: not offered

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Data Analytics (pg 103)
- Mathematics, Statistics and a Business Subject (pg 106)
- Mathematics & Computer Science (pg 107)
- Mathematics & Physics (pg 108)
- Mathematics with Teaching (pg 109)

## CONTACT

+44 (0)141 548 3804  
mathstat-ugselector@strath.ac.uk

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## Why Mathematics/Mathematics & Statistics at Strathclyde?

- Understand how mathematics is applied to solve practical problems
- Learn how to use statistics to explore and try to explain the uncertain world in which we live
- Accredited by the Institute of Mathematics and its Applications and the Royal Statistical Society
- Flexibility to transfer between MMath and BSc Honours
- By taking half of your final two years' classes in Statistics, you can graduate with the degree title of Mathematics & Statistics

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## Your Studies

**Years 1 & 2:** study core mathematical methods, and classes in calculus, geometry, analysis, mechanics and statistics

**Years 3 & 4:** choose from a range of mathematics and statistics classes from one or more of the specialist application areas, including Inference and Regression Modelling, Stochastic and Financial Econometrics, Fluids and Waves, and Numerical Analysis; in your Honours year, you will undertake a project that includes a written report and an oral presentation; if you take half of your Year 3 & 4 classes in statistics you can graduate with the degree title of BSc (Honours) in Mathematics & Statistics

**Year 5 (MMath only):** your fifth-year project could be carried out as an industrial placement; advanced classes include topics in Numerical Analysis, Optimisation, Advanced Mathematical Methods, Statistical Consultancy; if you take half of your Year 5 classes in Statistics you can graduate with the degree title of MMath in Mathematics & Statistics

## Your Career

Our graduates have successful careers across many job sectors including manufacturing, the actuarial, accountancy and banking professions, commerce and government, consultancy and education.

“

Strathclyde puts its students at the centre of the university, offering opportunities through scholarships and research projects. Maths is such a wide subject, involved in so many more areas than I had previously thought, and despite being a theoretical subject, our lecturers focus on the real-life applications of what we learn.

DEBBIE KERR  
MATHEMATICS

”



# Mathematics, Statistics & a Business Subject

BSc Honours (UCAS codes below)

Bridge the gap between  
business, and mathematics  
and statistics.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Mathematics, Statistics & Economics (UCAS G1L1)/... & Finance (UCAS GN33)/  
... & Business Analysis (UCAS GN12)**

**Highers:** Year 1 entry: **AABB/ABBBC** (Maths A, English C, Advanced Higher Maths recommended)

**Advanced Highers:** Year 2 entry: **AAB** (including Maths A and Accounting or Economics A)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths B, GCSE English Language B or Literature B); Year 2 entry: **AAA-ABB** (Maths A, Business subject A, GCSE English Language B or Literature B)

**IB:** **32** (Maths HL6, English SL6)

**HNC:** Year 1 entry: relevant HNC with strong mathematical content, B in Graded Unit;  
Year 2 entry: not offered

**Mathematics, Statistics & Accounting (UCAS GN34)**

**Highers:** Year 1 entry: **AAAA/AAABB** (Maths A, English C; Advanced Higher Maths recommended); Year 2 entry: not offered

**A Levels:** Year 1 entry: **AAA-ABB** (Maths A, GCSE English Language B or Literature B);  
Year 2 entry: not offered

**IB:** Year 1 entry: **36** (Maths HL6, English HL5)

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Data Analytics (pg 103)
- Mathematics & Statistics (pg 104)
- Mathematics & Computer Science (pg 107)
- Mathematics & Physics (pg 108)
- Mathematics with Teaching (pg 109)

## CONTACT

+44 (0)141 548 3804  
mathstat-ugselector@strath.ac.uk

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## Why Mathematics, Statistics & a Business Subject at Strathclyde?

- Develop mathematical and statistical expertise and broaden your skills in the UK Business School of the Year
- Mathematics, Statistics & Accounting is fully accredited by the Institute of Chartered Accountants in Scotland
- Economists with training in the use of mathematical models and techniques are in demand
- The Mathematics, Statistics & Finance degree provides a good basis for entering the actuarial profession
- Mathematics, Statistics & Business Analysis emphasises how maths can be used to solve business problems

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## Your Studies

**Years 1 & 2:** study core mathematical subjects including calculus, geometry, probability and statistics and introductory classes in your business specialism offered by the Strathclyde Business School  
**Years 3 & 4:** choose from a range of mathematics and statistics classes from one or more of the specialist application areas; the Honours-year project may be within your business subject or Mathematics or Statistics; Accounting options include Auditing, Business Law, Cost Accounting, Economics, Information Systems and Taxation; Economics options include Econometrics, Econometric Theory, Macroeconomics, Microeconomics, Health Economics, Industrial Economics, and Economics of Competitive Strategy; Finance options include Business Finance, Financial Markets, Portfolio Theory, Security Analysis, and Treasury Management; Business Analysis options include Resource Planning, Simulation, Operations Management Decision-making

## Your Career

There is a demand for mathematicians and statisticians across a range of sectors including manufacturing, the actuarial, accountancy and banking professions, commerce and government, consultancy and education. Those who specialise in accounting can pursue careers as Chartered Accountants.

# Mathematics & Computer Science

BSc Honours (UCAS G614)

Mathematics is a fundamental tool in computing, and computational methods help to solve mathematical problems.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/ABBBC** (Maths A, Advanced Higher Maths recommended)

**Advanced Highers:** Year 2 entry: **AB** (Maths A, Computing Science B, involving an appropriate programming language)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Maths A, Computer Science, involving an appropriate programming language)

**IB:** **32** (Maths HL6)

**HNC:** Year 1 entry: relevant HNC with strong mathematical content, B in Graded Unit; Year 2 entry: not offered

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Data Analytics (pg 103)
- Mathematics & Statistics (pg 104)
- Mathematics Statistics & a Business Subject (pg 106)
- Mathematics & Physics (pg 108)
- Mathematics with Teaching (pg 109)

## CONTACT

+44 (0)141 548 3804  
mathstat-ugselector@strath.ac.uk

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## Why Mathematics & Computer Science at Strathclyde?

- Learn how to apply mathematics to solve practical problems using specialist software
- Gain knowledge in programming languages, artificial intelligence, mathematical analysis, discrete mathematics, and web applications development
- Develop skills to tackle problems in a business setting
- Opportunity to undertake industry-relevant projects
- Option to carry out your Honours project in either subject
- Accredited by the Institute of Mathematics and its Applications

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## Your Studies

**Years 1 & 2:** you study core mathematical methods and classes in calculus, geometry, applied analysis, mechanics, analysis and probability and statistics; Computer Science classes include machines, languages and computation, information and information systems, programming foundations, logic and algorithms, and user and data modelling

**Years 3 & 4:** you can choose to focus up to three of your classes in either mathematics or computer science; your final-year project may be carried out in either subject; Honours graduates with sufficient computing classes may seek accreditation from the British Computer Society

## Your Career

Graduates in Mathematics & Computer Science are well prepared for careers involving theoretical computer science or programming of advanced scientific problems including cryptography. Job titles include data analyst, computer programmer, systems analyst, numerical analyst, investment analyst and mathematician. They can go into a wide range of jobs in the manufacturing and service industries, the actuarial, accountancy and banking professions, commerce and government, consultancy and education.

# Mathematics & Physics

BSc Honours (UCAS GF13)

Mathematics and Physics help to answer some of the important questions which arise in the world.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/ABBB** (Maths A, Physics B; Advanced Higher Maths and Physics recommended)

**Advanced Highers:** Year 2 entry: **AB** (Maths A, Physics B)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths B, Physics B); Year 2 entry: **AAA-ABB** (Maths A, Physics B)

**IB:** **32** (Maths HL6, Physics HL5)

**HNC:** Year 1 entry: relevant HNC with strong Maths and Physics, B in Graded Unit; Year 2 entry: not offered

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Data Analytics (pg 103)
- Mathematics & Statistics (pg 104)
- Mathematics & a Business Subject (pg 106)
- Mathematics & Computer Science (pg 107)
- Mathematics with Teaching (pg 109)

## CONTACT

+44 (0)141 548 3804  
mathstat-ugselector@strath.ac.uk

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## Why Mathematics & Physics at Strathclyde?

- Learn how to combine maths and physics to help identify and find solutions to important problems in the world
  - Develop knowledge of mathematical analysis, mechanics, waves and optics, electromagnetism, quantum physics and numerical analysis
  - Physics is ranked No 1 for research quality in the UK
  - Accredited by the Institute of Physics
  - Benefit from flexibility to transfer between courses
  - Opportunity to study abroad
  - Option to undertake final-year project in either subject
- 

## Your Studies

**Years 1 & 2:** study core mathematical methods and classes in calculus, geometry, analysis, mechanics, and probability and statistics; Physics classes cover mechanics, waves and optics, electromagnetism and quantum physics, and experimental physics  
**Years 3 & 4:** choose from a wide range of mathematics and physics classes; you will also have the opportunity to focus on an area in computational physics, or lasers and optics or theoretical physics including quantum theory, while continuing to develop mathematical skills; your final year project may be undertaken in either subject

## Your Career

Our graduates have a range of mathematical and analytical skills which allows them to enter a range of sectors. Recent graduates have become investment analysts, numerical analysts, statisticians, managers and teachers. Others have entered the engineering sector, the NHS and education. Job titles include medical physicist, actuary, investment analyst, mathematician, physicist and spacecraft project manager.

# Mathematics with Teaching

BSc Honours (UCAS G1XC)

Highly-qualified mathematics teachers across the UK are in demand and this degree is designed to meet this need.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/ABBBC** (Maths A, †English C, Advanced Higher Maths recommended)

**Advanced Highers:** Year 2 entry: **AB** (Maths A, Higher †English C)

**A Levels:** Year 1 entry: **ABB-BBB** (Maths B; †GCSE English Language C and Literature C); Year 2 entry: **AAA-ABB** (Maths A, †GCSE English Language C and Literature C)

**IB:** **32** (Maths HL6, †English SL6)

**HNC:** Year 1 entry: relevant HNC with strong mathematical content, B in Graded Unit; Year 2 entry: not offered

† General Teaching Council for Scotland minimum English requirement

## Additional Information

- Deferred entry is accepted
- Membership of the Protecting Vulnerable Groups Scheme required

## RELATED COURSES

- Data Analytics (pg 103)
- Mathematics & Statistics (pg 104)
- Mathematics & a Business Subject (pg 106)
- Mathematics & Computer Science (pg 107)
- Mathematics & Physics (pg 108)

## CONTACT

+44 (0)141 548 3804

mathstat-ugselector@strath.ac.uk

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## Why Mathematics with Teaching at Strathclyde?

- Combine an Institute of Mathematics and its Applications-accredited course with the education theory and classroom experience required for recognition by the General Teaching Council for Scotland
- Benefit from a professional teaching qualification which is recognised across the UK and overseas
- Take part in primary and secondary school placements
- Qualify to enter the paid probationary year as a teacher of mathematics in Scottish secondary schools
- Benefit from flexibility to transfer between courses

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## Your Studies

**Years 1 & 2:** follow the same curriculum as the BSc (Honours) in Mathematics; you study core mathematical methods and classes in calculus, geometry, applied analysis, mechanics, analysis, and probability and statistics

**Year 3:** focuses on advanced mathematical concepts and education, with teaching you undertake work placements in primary and secondary schools

**Year 4:** the first semester is spent almost entirely on mathematics-based classes; the final semester is devoted to topics in education and school experience

## Your Career

Graduates will be eligible to enter the paid probationary year in teaching, which can lead to employment opportunities within a variety of local authorities as a secondary school teacher.

# Pharmacy

MPharm (UCAS B230)

Understand the science behind drug discovery, development and delivery, and how patients react to the medicines they take.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers: AAAB** (Chemistry A, Biology A, Maths B, English B)

**Advanced Highers: BB** (Chemistry B and/or Biology; Physics and Maths can be considered); two Advanced Highers are required for Year 2 entry, which is the normal entry point

**A Levels:** Year 2 entry: **AAB-BBB** (Chemistry, Biology and an additional subject with Maths or Physics preferred; if not Maths at A Level, GCSE Maths A/B; GCSE English Language B; a pass in A Level Chemistry practical is required, where offered)

**IB: 36** (Chemistry HL7, Biology HL6, another subject at HL6 (Maths SL6, English SL6, required if not studied at HL) included in overall total of not less than 36 at first attempt; IELTS 6.5 may also be required)

**HNC/HND:** not generally considered on its own, except for mature applicants

## Additional Information

- Deferred entry is not accepted
- All offers are subject to criminal record and other relevant checks; applicants must be registered with the Protecting Vulnerable Groups Scheme or other national equivalent
- Pharmacy students are subject to Fitness to Practise procedures

## CONTACT

+44 (0)141 548 2863/3749  
MPharm@strath.ac.uk

## Why Pharmacy at Strathclyde?

- Combine fundamental science with practical experience of working with patients and health professionals in community and hospital placements from the outset
- Benefit from our strong links with the pharmaceutical industry sectors and Schools of Pharmacy internationally
- Learn from professional pharmacy practitioners
- Enter Year 2 of the five-year Integrated Master programme
- Pharmacy is ranked number 3 in the UK in the Complete University Guide 2017
- Accredited by the General Pharmaceutical Council

## Your Studies

**Year 2:** studies focus on the normal function of the body and how this is maintained; you study how nutrients and simple medicines are used by the body; topics include the sale and supply of over-the-counter medicines

**Year 3:** gain an understanding of the management of patients with common illnesses, explore how these occur and how medicines can be used in their treatment; other topics include formulation of medicines and how they are compounded for use and interact with the body

**Year 4:** topics include the management of patients with cancer, mental health issues or who have more than one disease, the quality of medicines and how this is assured for different formulations; you gain understanding of the need for the pharmacist to ensure the clinical appropriateness of the medicines dispensed

**Year 5:** focus on the application of evidence-based approaches to delivering individual and population-based pharmaceutical care including cases where there are no management guidelines; investigate the health economic implications of the introduction of new medicines and develop your research skills in a project

## Your Career

To become a pharmacist in the UK, you need an MPharm degree which has been accredited by the General Pharmaceutical Council (GPhC), followed by a pre-registration year (after graduation) in hospital or community practice and the registration assessment.

# Physics

MPhys (UCAS F303)/  
BSc Honours (UCAS F300)

Physics is behind everything  
from pure research through  
to applied engineering.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

### MPhys

**Highers:** Year 1 entry: **AAAB/AABBB** (Physics B, Maths B)

**Advanced Highers:** Year 2 entry: **AB** (Physics and Maths), in addition to grades as Year 1 above

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Physics B, Maths B)

**IB:** **34** (Physics HL6, Maths HL6)

### BSc Honours

**Highers:** Year 1 entry: **AABB** or **ABBBB** (Physics B, Maths B)

**Advanced Highers:** Year 2 entry: **AB** (Physics and Maths), in addition to grades as Year 1 above

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Physics B, Maths B)

**IB:** **32** (Physics HL5, Maths HL5)

## Additional Information

- Deferred entry is accepted
- If you have Higher Physics or Maths at grade C, you will be required to upgrade and achieve a grade A if repeating the Higher, or a grade B at Advanced Higher; if you have a grade D at first attempt in Higher Physics or Higher Maths, you will not normally receive an offer
- In sixth year it is advisable to take both Advanced Higher Physics and Maths
- HNC/HND considered on an individual basis; contact us for advice

## RELATED COURSES

- Mathematics & Physics (pg 108)
- Physics with Teaching (pg 114)
- Physics with Advanced Research (pg 113)

## CONTACT

+44 (0)141 548 3077  
study@phys.strath.ac.uk

## Why Physics at Strathclyde?

- Study a range of topics in physics and physical principles
- Develop skills that will enable you to become a successful physicist and maximise your career options
- Physics is ranked No 1 in the UK for research quality
- Learn from academics at the forefront of their research field
- Complete your training in laboratory work with a research project in one of the department's research labs
- Opportunity to undertake a summer industrial placement
- Accredited by the Institute of Physics

## Your Studies

**Year 1:** subjects include maths, mechanics, wave and optics, electromagnetism and quantum physics, and practical laboratory work

**Year 2:** all classes are compulsory and build on your understanding of physics developed in Year 1; new subjects will include Solid-State Physics and Computational Physics; laboratory work becomes more sophisticated, recognising your growth as a physicist

**Year 3:** topics include Quantum Physics, Statistical Mechanics, Electromagnetism and Solid-State Physics, and Mathematics; laboratory work develops your laboratory skills further in preparation for the fourth-year project

**Year 4:** you will undertake a project in our research labs along with a class that introduces the ideas behind the commercialisation of research and a wide choice of optional classes

**Year 5 (MPhys only):** advanced study of a range of topics, including photonics, quantum physics, nanoscience, electromagnetism and plasma physics, and training in research techniques; further project work

## Your Career

Career opportunities can range from working in research laboratories of organisations to working in the field of medical physics in a hospital and management positions outside the field of physics. Our graduates are found in roles such as systems engineers, defence scientists, patent examiners, actuaries and treasury analysts.



“

A summer placement with the Ophthalmic Department at Gartnavel Hospital led to me doing my Honours research project in collaboration with the Medical Devices Unit at Yorkhill Hospital. As well as gaining an insight into the many applications of Medical Physics and NHS research, I was able to contribute towards improving a neo-natal medical device. I am now doing a PhD in Laser-Plasma Physics at Strathclyde.

ZOE DAVIDSON  
BSc HONOURS PHYSICS GRADUATE

”

# Physics with Advanced Research

MPhys (UCAS F3F3)

Gain an understanding of the fundamental aspects of physics and undertake research at the forefront of industry.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Advanced Highers:** Year 2 entry: **AA** (Physics and Maths); in addition to Highers at **AAAAB**

**A Levels:** **A\*AA** (Physics and Maths)

**IB:** **36** (Physics HL6, Maths HL6)

Contact us if you have other qualifications

## Additional Information

- Deferred entry is accepted

## RELATED COURSES

- Mathematics & Physics (pg 108)
- Physics (pg 111)
- Physics with Teaching (pg 114)

## CONTACT

+44 (0)141 548 3077

study@phys.strath.ac.uk

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## Why Physics with Advanced Research at Strathclyde?

- Benefit from a Masters-level degree to pursue an academic or research-related career
- Physics is ranked No 1 in the UK for research quality
- Learn from academics at the forefront of their research field
- Enter directly into Year 2
- Undertake an extended project in your final year
- Opportunity to extend your knowledge through specialist tutorials
- Opportunity to undertake an industrial placement

---

## Your Studies

Students enter Year 2 of this five-year degree.

**Year 2:** all classes are compulsory; these will include Solid-State Physics and Computational Physics; laboratory work becomes more sophisticated, recognising your growth as a physicist

**Year 3:** topics include Quantum Physics, Statistical Mechanics, Electromagnetism and Solid-State Physics, and Mathematics; laboratory work develops your laboratory skills further in preparation for the fourth-year project

**Year 4:** you will undertake a project in our research labs along with a class that introduces the ideas behind the commercialisation of research and a wide choice of optional classes

**Year 5:** you will undertake an extended project supervised by a member of academic staff in one of our research labs; advanced study of a range of topics, including photonics, quantum physics, nanoscience, electromagnetism and plasma physics, and training in research techniques

## Your Career

Career opportunities can range from working in research laboratories of organisations to working in the field of medical physics in a hospital and management positions outside the field of physics. Our graduates are found in roles such as systems engineers, defence scientists, patent examiners, actuaries and treasury analysts.

# Physics with Teaching

BSc Honours (UCAS F3XC)

There is a shortage of physics teachers across the UK and our degree is designed to fill this need in the industry.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AABB/ABBBB** (Physics B, Maths B, †English C)

**Advanced Highers:** Year 2 entry: **AB** (Physics and Maths), plus two other Highers at AB, or **ABB** (including Physics and Maths, plus another Higher at B, †Higher English C)

**A Levels:** Year 1 entry: **ABB-BBB**; Year 2 entry: **AAA-ABB** (Physics B, Maths B, †GCSE English Language C and Literature C)

**IB:** **32** (Physics HL5, Maths HL5, †English SL6)

**HNC/HND:** considered on an individual basis; please contact us for advice

† General Teaching Council for Scotland minimum English requirement

## Additional Information

- Deferred entry is accepted
- If you have Higher Physics or Maths at grade C, you will be required to upgrade and achieve a grade A if repeating the Higher, or a grade B at Advanced Higher; if you have a grade D at first attempt in Higher Physics or Higher Maths, you will not normally receive an offer
- In sixth year it is advisable to take both Advanced Higher Physics and Maths
- In order to continue into Year 3, Physics with Teaching students undergo an interview and must be registered with the Protecting Vulnerable Groups Scheme

## RELATED COURSES

- Mathematics & Physics (pg 108)
- Physics (pg 111)
- Physics with Advanced Research (pg 113)

## CONTACT

+44 (0)141 548 3077  
study@phys.strath.ac.uk

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## Why Physics with Teaching at Strathclyde?

- Combine an Institute of Physics-accredited course with the education theory and classroom experience required for recognition by the General Teaching Council for Scotland
- Develop your skills with integrated teaching placements
- Benefit from a professional teaching qualification which is recognised across the UK and overseas
- Physics is ranked No 1 for research quality in the UK
- Qualify to enter the paid probationary year as a teacher of physics in Scottish secondary schools

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## Your Studies

**Year 1:** foundations of physics including maths, mechanics, optics and waves, electromagnetism and quantum physics and practical work undertaken in the teaching laboratory; choice of elective classes from across the University

**Year 2:** all classes are compulsory and will include Solid-State Physics and Computational Physics; laboratory work becomes more sophisticated, recognising your growth as a physicist

**Year 3:** classes in Quantum Physics, Electromagnetism, Statistical Mechanics and Solid-State Physics; teaching placement in a school and classes relating to teaching pedagogy for science

**Year 4:** you will either undertake a project in the research labs or choose one of four optional classes in the first semester; in the second semester you take education-based classes along with an extended period of teaching practice in schools

## Your Career

Graduates are eligible to enter the paid probationary year in schools which is part of the professional training for secondary teaching.

# Software Engineering

BSc Honours (UCAS G600)

Design and develop complex systems, including those used in phones, vehicles, financial systems and secure web and medical applications.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets

**Highers:** Year 1 entry: **AAAB/AABBB** (Maths B, Computing Science recommended); Year 2 entry: grades as above, including Advanced Higher Maths and Computing Science at AB/BA and three other Highers at ABB

**A Levels:** Year 1 entry: **ABB-BBB** (Maths B, Computer Science recommended); Year 2 entry: **AAA-ABB** (Maths and Computer Science AB/BA)

**IB:** **34** (Maths HL5, Computer Science recommended)

**HNC/HND:** Year 1 entry: relevant HNC, A in Graded Unit, Maths modules or Maths Higher recommended; Year 2 entry: relevant HND, AA in Graded Units, Maths modules or Maths Higher recommended

## Additional Information

- Deferred entry is not accepted
- Offers may be at above the minimum requirements

## RELATED COURSE

- Computer Science (pg 102)

## CONTACT

+44 (0)141 548 3189  
admissions@cis.strath.ac.uk

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## Why Software Engineering at Strathclyde?

- Gain the skills to become a professional developer of high-quality software, focusing on large-scale software systems
- Combine theory and practice to maximise your career options
- Develop understanding of software, hardware, communication technologies and strong design and team-working skills
- 12-month paid industrial placement in the UK or abroad
- Accredited by the British Computer Society

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## Your Studies

**Year 1:** subjects include software construction, theory and algorithms, information and information systems, computer systems and hardware, business technology and a choice of elective classes from across the University; small-group tutorials cover personal and professional development issues

**Year 2:** topics include algorithms, logic, databases and the design of user interfaces; there is significant emphasis on programming and the architecture of machines

**Year 3:** subjects include communications, the design of new programming languages, the variety of internal machine architectures, artificial intelligence, and the technologies behind web-based and mobile applications; large group-based software development project

**Year 4:** 12-month paid industrial placement

**Year 5:** specialise in a particular aspect of software engineering and choose optional classes to build on the experience gained from your industrial placement; major practical computing project

## Your Career

Recent graduate job titles within leading computing companies include analyst programmer, graduate data analyst, software developer, software engineer and test analyst

**STRATHCLYDE**  
**BUSINESS**  
**SCHOOL**

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# WE ARE THE NUMBER 1 BUSINESS SCHOOL IN SCOTLAND AND TIMES HIGHER EDUCATION UK BUSINESS SCHOOL OF THE YEAR 2016. WE ARE A TRIPLE-ACCREDITED BUSINESS SCHOOL, ONE OF ONLY 77 WORLD-WIDE WITH THIS ACCOLADE.

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Founded in 1948, Strathclyde Business School is an enterprising, pioneering institution of global standing. It is one of the few institutions in the world to have achieved triple accreditation from AACSB, AMBA and EQUIS (as of January 2017, 77 business schools have this status – source: [mba.today](http://mba.today)). In addition to this accreditation, we are the number 1 Business School in Scotland.

We offer a broad range of business subjects across three types of degree programmes. The structure of all our degrees gives you the opportunity to choose the ideal combination of subjects for your chosen career path and many of our courses are accredited by professional institutions.

## **International Opportunities**

We are strongly international in outlook and our long-standing links with universities across the world enable you to spend part of your course studying abroad, without adding to the length of your degree.

As we are internationally-accredited, and have staff and students from all over the world, even if you choose not to spend a period of study abroad, your Strathclyde Business School degree will be valued by employers the world over.

## **Industry Links**

The Business School has a strong reputation for effective working with business, industry and the public sector and our Management Development Programme, which is a compulsory element to all of our degrees, is highly valued by graduate recruiters.

The programme is supported by key graduate employers, such as Barclays, Deloitte, Procter & Gamble and Ernst & Young.

# Business Degrees

We offer a broad range of business subjects across three types of degree programmes; many of our courses are accredited by professional institutions.

## Admission to Honours

All students will be admitted as potential Honours students. Students may exit with a Bachelor of Arts degree at the end of year three of the Honours programme if they have accumulated at least 360 credits and satisfied the appropriate specialisation requirements.

For admission to the final year, a student must have qualified for the award of the Bachelor of Arts degree and achieved an approved standard of performance.

## CONTACT

Business School Admissions  
+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

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## Why choose a Business degree at Strathclyde?

- Benefit from the opportunity within all our degree structures to choose the ideal combination of subjects for your chosen career path
- Flexible – BA (Honours) Business and Bachelor (Honours) of Business Administration (BBA, three-year Honours degree)
- Specialist – BA (Honours) International Business
- Cross-disciplinary – Masters in International Business and a Modern Language

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## Flexible Degrees

Within each programme structure you have a choice of subjects which are described on the following pages.

### BA (Honours) Business/BA (Honours) Business with Accounting

The four-year structure allows you to choose the ideal combination of courses for your chosen career path (see pg 120).

### Bachelor (Honours) of Business Administration (BBA)

The BBA is a three-year Honours degree (see pg 121); you enter at the equivalent of Year 2. You can choose subjects according to your interests and career goals and specialise in a named subject, depending on the classes chosen. Due to the accelerated nature of the degree, entry requirements are defined at a higher level – typically A Levels, Scottish Advanced Highers, and specialised qualifications such as the Higher National Diploma or equivalent European qualifications.

### BA (Honours) International Business

The specialist four-year degree in International Business (see pg 122) enables you to study business subjects in an international context and includes a period of study abroad in Year 3.

### Masters in International Business and a Modern Language

This cross-disciplinary degree (see pg 125) allows you to combine undergraduate and Masters-level study over five years within one programme, graduating with a Masters degree.

## Business Skills

Our core business development programme is a central element of our undergraduate degrees. It provides a learning environment through which students develop business and commercial awareness alongside graduate employability skills. Depending on which degree you study, this will be the Management Development Programme, or, for the BBA, the Leadership Development Programme. Increasingly, organisations are seeking employees who can adapt to change, operate effectively in multidisciplinary teams, and who have confidence in presenting and well-developed interpersonal skills. Our programmes develop these skills, enhance your employability and integrate with the knowledge of business acquired through your academic subjects.

### Management Development Programme

The innovative and highly-acclaimed Management Development Programme (MDP) comprises a series of classes which you take throughout Years 1 to 3. You develop knowledge and skills in key areas of management, and team-working, communication and decision-making skills – all of which are highly sought-after by employers.

Through working on real business problems with other students in project teams, the programme builds your confidence and entrepreneurial capabilities, and promotes awareness of globalisation and ethical issues in personal and business decision-making. In Year 3, you develop your own pathway from internships, involvement with business projects, engagement in interdisciplinary activities and business clinics.

Major employers and alumni from all sectors are involved in the MDP, participating in group sessions, observing student presentations, and providing feedback. Organisations involved include Barclays, Deloitte, Procter & Gamble and Ernst & Young.

### Leadership Development Programme

The Leadership Development Programme (LDP) is a particular feature of the BBA degree. This compulsory programme runs during Years 1 and 2 and is the equivalent of the MDP undertaken in our other degree programmes. Each year of the LDP focuses on different aspects of business and you will learn about the reality of business through industry engagement. You will cover areas such as leadership, negotiation, entrepreneurship, ethics and strategic management, as well as honing your practical skills in areas of IT, numeracy and research methodology.

## Business School Admissions Information

We welcome applications from all qualified applicants and from those progressing towards our admissions requirements. The following guidelines will help you choose the subjects to study in preparation for entry to our degree programmes:

- you do not need to have studied business subjects before
- a broad range of subjects across different disciplines is preferred (avoid related subjects with a high proportion of common subject matter, eg Biology and Human Biology)
- if you do not achieve the entry standard in fifth year, you are welcome to apply, if you can demonstrate that you will be able to achieve an overall higher level by the end of your sixth year

### Second-Year Entry

It may be possible for candidates with relevant Advanced Highers or A Levels to enter directly into Year 2. However, Year 2 entry is not offered for the Bachelor of Business Administration and the International Business and Modern Languages degrees. Please contact Business School Admissions (see left) for advice on curriculum choice before beginning advanced studies.

### Deferred Entry

Deferred entry is not accepted.

### Other Qualifications

We also consider qualifications such as Irish Leaving Certificates, and European/International Baccalaureates. Some overseas school-leavers may require a foundation course. Please contact Business School Admissions. We expect you to have similar levels of ability in such qualifications as Higher/A Level standard, for example the equivalent of a B pass (or an average of 60 per cent). You also need to show ability in any specific subjects required for a particular degree programme, for example, a higher level of ability in Maths, or a level of proficiency in Modern Languages.

### Mature Students

Admission routes include Access courses, HNCs, HNDs, Open University Credits, Highers, Advanced Highers and A Levels (which must be recent). Please contact Business School Admissions for advice (details left).

### Pre-Entry Access Course

This part-time one-year evening course for mature students is taught and examined within the University. Similar courses offered by other UK universities may also be accepted.

# Bachelor (Honours) Business

BA Honours (UCAS N100)

Excel in the business world with our flexible BA Honours Business degree.

## SUBJECT COMBINATIONS

Each subject entry lists the subjects you can combine within the BA (Honours) degree.

### Single and/or Joint Honours Subjects

- Accounting
- Business Analysis & Technology
- Business Enterprise
- Economics
- Finance
- Hospitality & Tourism Management
- Human Resource Management
- Management
- Marketing

### Joint Honours Only Subjects

- Business Law
- Psychology\*
- Mathematics & Statistics\*\*

\* offered by the Faculty of Humanities & Social Sciences (see pg 69)

\*\* offered by the Faculty of Science (see pg 106)

## ENTRY REQUIREMENTS SUMMARY

Full details are given on the following degree and subject pages.

### Highers

1st sitting: **AAAB/AABBB** (AAAA for Accounting)

2nd sitting: **AAABBB**

### A Levels

Year 1 entry: **ABB-BBB** (AAA for Accounting)

### IB

**36** (no subject below 5, including SL5 in English and Maths/Maths Studies)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

### CONTACT

Business School Admissions

+44 (0)141 548 4114

sbs-adviser@strath.ac.uk

## Why Business at Strathclyde?

- Strathclyde Business School (SBS) is the No 1 business school in Scotland and Times Higher Education UK Business School of the Year 2016
- SBS is one of only 77 business schools in the world with full international accreditation (AMBA, AACSB and EQUIS)
- Benefit from flexibility of subject choice from Year 1
- Develop skills in key areas of management, team-working, and communication, which are highly-valued by graduate recruiters, through our innovative Management Development Programme

## Your Studies

In Year 1 you choose classes in business and other disciplines, alongside our compulsory Management Development Programme (MDP) in Years 1 to 3 (see pg 118). You continue two of your first-year subjects into Years 2 and 3 and select a third minor subject. Year 4 could be single or joint Honours and includes an Honours dissertation.

## Your Career

Our graduates find jobs as trainee accountants, stockbrokers, investment analysts and marketers. Recent employers include Deutsche Bank, Santander, Deloitte, PricewaterhouseCoopers, Ernst & Young, Scottish Enterprise, British Airways, IBM and Guinness.

DEGREE STRUCTURE						
Year 4	Single			Joint		Honours Degree
Year 3	First Principal Subject		Second Principal Subject		Minor Subject	BA Degree
Year 2	First Principal Subject		Second Principal Subject		Minor Subject	
Year 1	Subject 1	Subject 2	Subject 3	Subject 4	Elective	
MDP						

# Bachelor (Honours) Business Administration

BA Honours (UCAS N101)

The Bachelor (Honours) of Business Administration (BBA) is a three-year Honours degree, similar to those offered in English universities.

## ENTRY REQUIREMENTS

Due to the accelerated nature of this degree, entry requirements are defined at a higher level than the four-year BA (Honours).

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Advanced Highers

**AAB** (English Higher B, Maths National 5 B)

### A Levels

**AAB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B)

### IB

**36** (no subject below 5 and including English SL5, Maths/Maths Studies SL5)

### HNC/HND

Relevant HND, A in Graded Units

## CONTACT

Business School Admissions  
+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

## Why the BBA at Strathclyde?

- Strathclyde Business School has an excellent reputation around the world for teaching and research
- SBS was recently rated top in Scotland for research and third in the UK for research impact
- Develop your practical skills and learn about negotiation and strategic management on the integrated Leadership Development Programme
- Opportunity to tailor your degree to suit your career
- Benefit from our links with business, industry and the public sector

## Your Studies

Year 1 is an intensive combination of Years 1 and 2 of the four-year BA degree. The BBA can be taken with one subject selected as your specialism or without any specialism. Your choice of business subject specialisms includes Business Analysis & Technology, Business Enterprise, Economics, Hospitality & Tourism Management, Human Resource Management and Marketing. To specialise in one principal subject, you take an additional specialist class in that subject area. If you do not wish to specialise you would take four classes from the list above.

## Your Career

With our graduates in high demand, recent roles have included corporate investment banker, management consultant and risk manager.

DEGREE STRUCTURE						
Year 3	Dissertation (specialism/generalist)		Issues and Trends in Business Management	Contemporary Issues in Management	Specialist/Elective Subject 1	Specialist/Elective Subject 2
Year 2	Leadership Development Programme 2	New Venture Planning	Contemporary Trends in Management Practice	Specialist/Elective Subject 1	Specialist/Elective Subject 2	Elective Subject 3
Year 1	Leadership Development Programme 1	Business Economics	BBA Subject 1	BBA Subject 2	BBA Subject 3	Specialist Subject 1

# BA Honours International Business

BA Honours (UCAS N120)

Develop your understanding of international business and the different approaches and challenges involved in operating across borders.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**

2nd sitting: **AAABBB**

(English Higher B; Maths National 5 B, or equivalent; Maths Higher B for combinations with Finance)

### A Levels

**ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; Maths A Level B for combinations with Finance)

### IB

**36** (no subject below 5 and including English SL5, Maths/Maths Studies SL5; Maths/Maths Studies SL6 for combinations with Finance)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

## CONTACT

Business School Admissions

+44 (0)141 548 4114

sbs-adviser@strath.ac.uk

## Why International Business at Strathclyde?

- Gain the skills to succeed in a complex and ever-changing global business environment
- Study abroad at one of our partners institutions in Europe, South East Asia, Australasia or North America
- Boost your career prospects, with an understanding of international business from another country's perspective
- Develop skills which are highly-valued by graduate recruiters through our innovative Management Development Programme

## Your Studies

Your choice of business subjects includes Business Analysis & Technology, Business Enterprise, Economics, Finance, Hospitality & Tourism Management, Human Resource Management and Marketing. You choose two Business subjects at the end of first year to take into Years 2 and 3. Our compulsory Management Development Programme runs throughout Years 1 to 3. In Year 4 you undertake a dissertation with an international business focus.

## Your Career

Knowledge of international business, especially with the experience and maturity gained from study abroad, will set you apart. Graduates are in demand by major employers across all sectors of the economy.

DEGREE STRUCTURE						
Year 4	Principal Subject	IB Dissertation in Principal Subject		IB Classes		Honours Degree
Year 3	MDP & Distance MDP	Principal Subject & IB – Semester Abroad				BA Degree
		Principal Subject & IB – Semester Home				
Year 2	MDP	First Principal Subject	IB	Second Principal Subject		
Year 1		Subject 1	Subject 2	Management & IB	Subject 4	



“

I am originally from the United States and I was attracted by the course flexibility and the international student support that Strathclyde offers. I hope to pursue a career in data and technology analysis. As the course offers Business Analysis & Technology as a specialisation, I am developing skills that will benefit me in any career.

EMMA ROBERTS  
INTERNATIONAL BUSINESS

”

“

The opportunity to study abroad attracted me to the IBML course. You can discover another city and culture, make new friends and become more confident. Experience abroad also makes you more attractive to employers. Making presentations has helped me feel confident about communicating my ideas in a professional context.

EUAN DICKSON  
INTERNATIONAL BUSINESS &  
A MODERN LANGUAGE

”



# Masters in International Business & a Modern Language

Master (UCAS NR19)

Gain a firm foundation in business while developing the ability to do business in a foreign language.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**

2nd sitting: **AAABBB**

(Higher English B; Maths National 5 B, or equivalent; Higher Maths B for combinations with Finance; Higher A/B in one language from French, Spanish, Italian)

### A Levels

**ABB-BBB** (GCSE English Language B or Literature, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; Maths A Level B for combinations with Finance; A Level B in the Modern Language to be studied)

### IB

**36** (no subject below 5 and including English SL5; Maths/Maths Studies SL5; Maths/Maths Studies SL6 for combinations with Finance; Modern Language SL5)

### HNC/HND

Relevant HNC/HND, A in Graded Units; language qualification in language to be studied; Year 2 entry not offered

### CONTACT

Business School Admissions  
+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

## Why International Business & a Modern Language at Strathclyde?

- This five-year Masters-level degree will give you great experience of the international business environment along with the study of a language
- Become fluent in French, Italian or Spanish, while developing your knowledge of international business
- Study your chosen language to Masters level
- Benefit from our strong exchange links with universities worldwide
- Perfect your language skills through an integrated year of study abroad

## Your Studies

You study French, Italian or Spanish, along with a choice from Business Analysis & Technology, Business Enterprise, Economics, Finance, Hospitality & Tourism Management (HTM), Human Resource Management and Marketing.

## Your Career

Graduates with international business knowledge and language and cultural fluency are in demand as international trade and global commerce become more important. Recent employers include BMW, Emirates Airline, IBM, Procter & Gamble, Deloitte and ScottishPower.

DEGREE STRUCTURE						
Year 5	Dissertation	IB	Business Subject	Language	Masters Degree	
Year 4	Year abroad – study in the country of your language				BA Degree	
Year 3	MDP	Business Principal Subject		IB		Language
Year 2		Business Principal Subject		IB		Language
Year 1		Business Subject 1	Business Subject 2	Management & IB		Language

# Accounting

BA Honours (UCAS N400)

Explore how accounting can be developed to meet the needs of society.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAA/AAABB** (English B, Maths A)  
2nd sitting: **AAAABBB** (English B, Maths A)

### A Levels

Year 1 entry: **AAA** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; A Level Maths A)

### IB

**38** (no subject below 5 and including English SL5, Maths HL6)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2, contact Business School Admissions

## JOINT HONOURS SUBJECT COMBINATIONS

Business Analysis & Technology (UCAS NG42)

Business Enterprise (UCAS NN41)

Business Law (UCAS NM42)

Economics (UCAS NL41)

Finance (UCAS NN43)

Hospitality & Tourism Management (UCAS NN48)

Human Resource Management (UCAS NN46)

Management (UCAS NN42)

Marketing (UCAS NN45)

Maths & Statistics (UCAS NG41)

## CONTACT

+44 (0)141 548 4114

sbs-adviser@strath.ac.uk

## Why Accounting at Strathclyde?

- Learn about the preparation, presentation and interpretation of financial information
- Create a curriculum to suit your interests and needs
- Accredited by the Institute of Chartered Accountants Scotland
- First BA in Accounting in the UK to be approved for endorsement under the IMA's Higher Education Endorsement Programme
- Accounting & Finance is ranked No 1 in the UK in the Complete University Guide 2017

## Your Studies

**Year 1:** subjects include introduction to accounting and finance, economics and law

**Year 2:** learn the specialisms of financial and management accounting along with the opportunity to study taxation

**Year 3:** advanced topics in financial and management accounting and the study of auditing

**Year 4:** Honours classes include Management Accounting Theory and Practice, Accounting Information Systems, Sustainability Accounting Theory and Practice, Strategic Accounting and Financial Management in Entrepreneurial Firms, Public Sector Accounting, Accounting Theories, Accounting and Risk, Corporate Governance, Contemporary Issues in International Financial Reporting, Understanding 21st-century Accounting Technologies and Institutional Structures, Integrative Studies in Management and Accounting, Accounting Ethics, Auditing Theory and Practice and Taxation; you also investigate issues studied in class in a dissertation project

## Your Career

The majority of study combinations of this course leads to a fully-accredited degree, allowing you to train for membership of the Institute of Chartered Accountants of Scotland. Many graduates go on to qualify as Chartered Accountants and others enter branches of commerce such as banking, insurance and fund management. This course is also useful for those considering a more general business career.

“

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Strathclyde gives you the opportunity to learn hard academic skills and soft skills and I believe that the soft skills I have gained set me apart from other university students. A six-week summer internship in the taxation department of Deloitte allowed me to put my learning into practice and has led to a graduate job in tax with the company.

CIARA FLAHERTY  
ACCOUNTING & FINANCE

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“ An internship has enabled me to work within a charity supporting young people with autism, using my skills to improve aspects of the business, and seeing first-hand the difference seemingly small changes can make. Returning to university as a mature student has been incredibly rewarding and I’m considering continuing my studies to PhD level.

SUSAN WILLIAMSON  
BUSINESS ANALYSIS & TECHNOLOGY  
AND FINANCE

”

# Business Analysis & Technology

BA Honours (UCAS G292)

Improve decision-making and problem-solving through understanding how technology supports business managers.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Higher Maths A for combinations with Accounting or Maths & Statistics; Higher Maths B for combinations with Finance)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting or Maths & Statistics; A Level Maths B for combinations with Finance)

**IB 36** (no subject below 5 and including English SL5, Maths/Maths Studies SL5; Maths HL6 for combinations with Accounting or Maths & Statistics; Maths/Maths Studies SL6 for combinations with Finance)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

## JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NG42)

Business Enterprise (UCAS NG12)

Business Law (UCAS MN29)

Economics (UCAS GL21)

Finance (UCAS GN23)

Hospitality & Tourism Management (NN8F)

Human Resource Management (UCAS GN26)

Management (UCAS GN22)

Marketing (UCAS GN25)

Maths & Statistics (UCAS N1G3)

## CONTACT

+44 (0)141 548 4114

sbs-adviser@strath.ac.uk

## Why Business Analysis & Technology at Strathclyde?

- Gain understanding of the impact on organisations of developments and issues in business technology
- Develop analytical expertise to support business decision-making
- Extend your skills through practical case studies with a range of organisations
- Option to study abroad in Year 3
- Study a degree which provides the first step towards full professional accreditation with the UK Operational Research Society

## Your Studies

**Year 1:** introduction to key areas in business technology, managerial and operational issues in conjunction with analytical tools to support associated decision-making

**Years 2 & 3:** further develop expertise in modelling and analysis to support problem-solving and decision-making; learn the fundamentals of operations management and how information systems are used to enhance key business processes

**Year 4:** carry out a major project for an industry or university client; you take a core class which focuses on analysis and technology in practice and choose from optional classes such as Business Process Integration with ERP, Contemporary Business Technology, Business Analytics Using Data Mining, Project Management, Risk Analysis and Management.

## Your Career

The best performing companies look for high levels of problem-solving ability, analytical and decision-making skills, as well as technology and business awareness in their employees. Employers recruiting our graduates include consultancy companies such as Accenture Consulting, PA Consulting and Capgemini, financial services providers such as The Royal Bank of Scotland, Standard Life and Goldman Sachs, plus others such as British Airways, Amey, Deloitte and Centrica.

# Business Enterprise

BA Honours (UCAS N190)

Understand entrepreneurship as an activity and as an approach to business and organisations.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Higher Maths A for combinations with Accounting; Higher Maths B for combinations with Finance)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting; A Level Maths B for combinations with Finance)

**IB 36** (no subject below 5 and including English SL5, Maths/Maths Skills SL5; Maths HL6 for combinations with Accounting; Maths/Maths Studies SL6 for combinations with Finance)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

### JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NN41)  
Business Analysis & Technology (UCAS NG12)  
Business Law (UCAS MN21)  
Economics (UCAS NL11)  
Finance (UCAS NN13)  
Hospitality & Tourism Management (UCAS NN1V)  
Human Resource Management (UCAS NN16)  
Management (UCAS NN12)  
Marketing (UCAS NN15)

### CONTACT

+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

## Why Business Enterprise at Strathclyde?

- Develop the skills and expertise required to set up your own business and the entrepreneurship required by organisations
- Gain valuable industry experience in your Honours year, working on a project with a host company
- Learn from the experiences of our guest lecturers who include industrial contacts and alumni
- Gain real-world skills, which are valued by employers, through taking part in student competitions to plan and develop a business idea

## Your Studies

**Year 1:** gain an understanding of entrepreneurship and its ability to change industries, markets and society, introducing the vocabulary, concepts and practice of enterprise; take part in Value Challenge – a group assignment to give you real-life experience of creating value through entrepreneurial activity

**Year 2:** key entrepreneurial processes are introduced through core classes in Creativity and Opportunity Management, and New Venture Planning

**Year 3:** examines entrepreneurial processes and enterprising skills in different settings; classes include Entrepreneurial Capital, and Venture Management Strategy and Growth

**Year 4:** classes include Venture Management in Practice (company placement), Family Business: Theory and Practice, Issues and Trends in Entrepreneurship, and International Entrepreneurship; dissertation on an aspect of enterprise

## Your Career

In addition to the option of starting your own business, you will have the potential to work in financial services, retail, consultancy and manufacturing. Previous graduates have been successful in gaining entry to graduate schemes with companies such as Accenture, Proctor & Gamble, British Sugar, Tesco, AG Barr, Johnstons of Elgin, PwC, Morgan Stanley, GE Oil & Gas, Fujitsu, ScottishPower, Barclays, Deloitte and BBC Scotland.

# Business Law

## BA Joint Honours

Business Law covers the legal regulations relevant to the world of commerce.

### ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

#### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Higher Maths A for combinations with Accounting; Higher Maths B for combinations with Finance)

#### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting; A Level Maths B for combinations with Finance)

**IB 36** (no subject below 5 and including English SL5; Maths/Maths Studies SL5; Maths HL6 for combinations with Accounting; Maths/Maths Studies SL6 for combinations with Finance)

#### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

### JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NM42)  
Business Analysis & Technology (UCAS MN29)  
Business Enterprise (UCAS MN21)  
Economics (UCAS LM12)  
Finance (UCAS NM32)  
Hospitality & Tourism Management (UCAS MN28)  
Human Resource Management (UCAS NM62)  
Management (UCAS NM22)  
Marketing (UCAS NM52)

### CONTACT

+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

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## Why Business Law at Strathclyde?

- Graduates with an awareness of law and legal implications of business operations are sought-after by employers
- The Law School is ranked joint first in Scotland for research
- Strathclyde Business School has a strong reputation for effective working with business, industry and the public sector
- Opportunity to progress to our LLB (Graduate Entry) after completing a joint Honours degree with another subject

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### Your Studies

**Year 1:** the core Business Law class introduces the main areas of legal study, including law-making in the UK Parliament and the devolved Parliament in Scotland, court systems and their decision-making, and outlines the law of contract, negligence and some aspects of company law, agency and partnership

**Year 2 and 3:** choice of business-related law subjects, and a selection from a wide range of electives to match your interests and complement your other principal subject, such as Human Rights Law, Intellectual Property Law, Competition Law, EU Law and Employment Law

**Year 4:** you can select Business Law as part of a joint Honours degree, studying two of your elective classes in greater detail

### Your Career

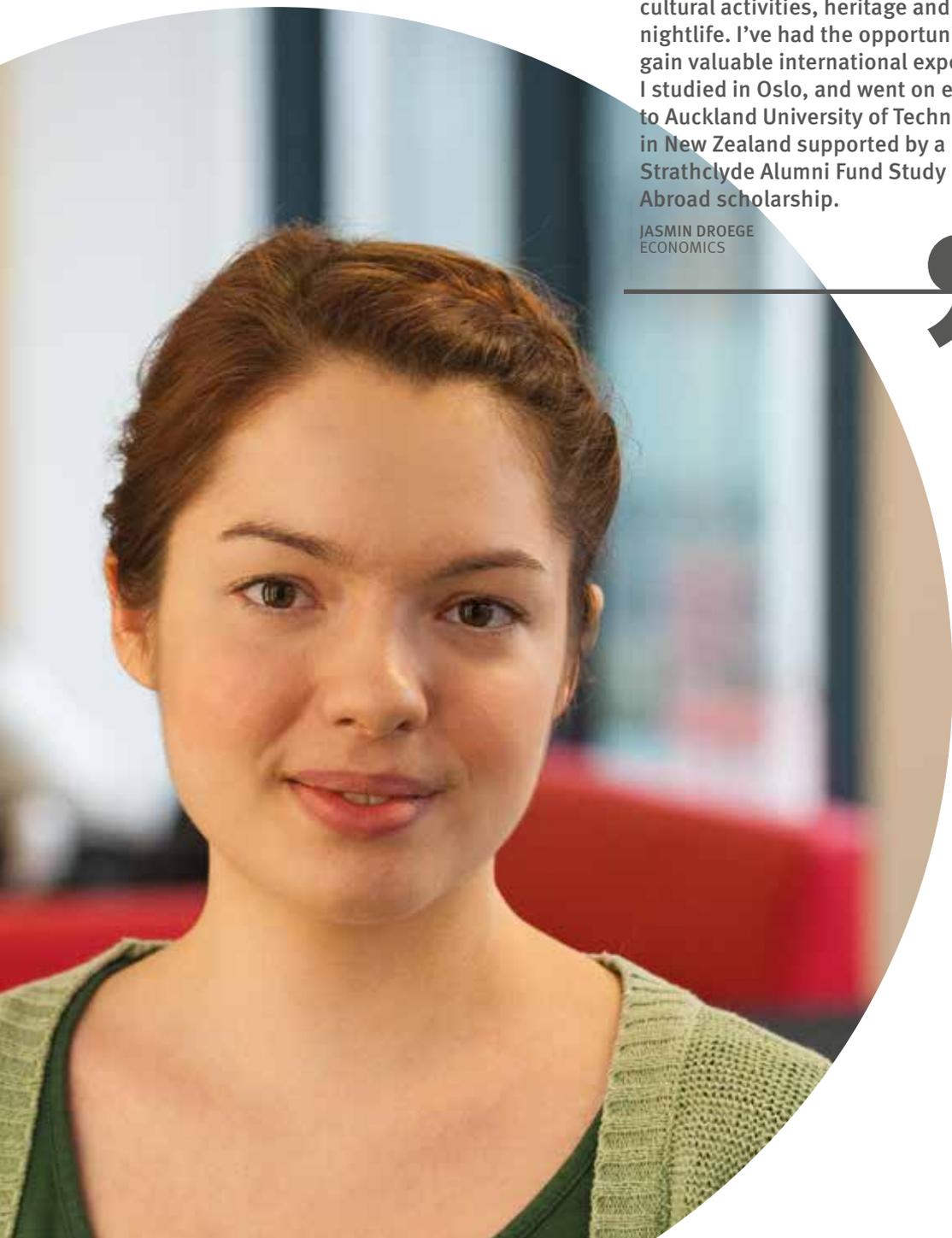
Graduates who have specialised in Business Law and another discipline find openings in government services, commerce and industry, banking and insurance, management and administration, university teaching and overseas appointments. Some graduates proceed to study for an accelerated LLB Law degree.

“

I am from Germany and I chose to study at Strathclyde due to the reputation of the Business School. In addition, Glasgow offers lots of cultural activities, heritage and student nightlife. I've had the opportunity to gain valuable international experience. I studied in Oslo, and went on exchange to Auckland University of Technology in New Zealand supported by a Strathclyde Alumni Fund Study Abroad scholarship.

JASMIN DROEGE  
ECONOMICS

”



# Economics

BA Honours (UCAS L100)

Economics studies how wealth is created and distributed and informs government policy on sustainable economic growth.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Higher Maths A for combinations with Accounting or Maths & Statistics; Higher Maths B for combinations with Finance)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting or Maths & Statistics; A Level Maths B for combinations with Finance)

**IB 36** (no subject below 5 and including English SL5, Maths/Maths Studies SL5; Maths HL6 for combinations with Accounting or Maths & Statistics; Maths/Maths Studies SL6 for combinations with Finance)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

## JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NL41)  
Business Analysis & Technology (UCAS GL21)  
Business Enterprise (UCAS NL11)  
Business Law (UCAS LM12)  
Finance (UCAS LN13)  
Human Resource Management (UCAS LN16)  
Management (UCAS LN12)  
Marketing (UCAS LN15)  
Maths & Statistics (UCAS LG1C)  
Psychology (UCAS LC18)

## CONTACT

+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

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## Why Economics at Strathclyde?

- Develop excellent analytical and problem-solving skills that are highly valued by employers
- Gain the ability to explain complex data in simple terms to different audiences
- Benefit from teaching by staff who have strong links with policy-makers in Scotland and with industry
- Study in a department with consistently high NSS results
- Through a real-world policy-oriented approach, learn how economic concepts are useful to understand and improve the world around us

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## Your Studies

**Year 1:** introduction to a range of issues in economics, including key ideas underpinning microeconomics (the study of individuals and markets), and macroeconomics (economy-wide issues such as unemployment and growth)

**Year 2:** in microeconomics classes you study some analytical frameworks to understand market structures, the consequences of market power, and the role of government intervention in markets; macroeconomics classes focus on the operation of the national economy, and the role of economic policy in delivering sustainable economic growth

**Year 3:** in microeconomics you will gain understanding of strategic thinking, applying the tools of game theory to issues in public economics; macroeconomics classes explore the operation of the international economy

**Year 4:** study advanced microeconomics and/or macroeconomics, and choice of electives in topics such as energy and the environment; behavioural economics; financial development and economic growth; industrial economics; and advanced quantitative methods; you will also write a dissertation in a topic of your choice

## Your Career

Our graduates have entered careers in economics and economics-related fields, in both the private and public sectors. Recent employers include the Government Economics Service, National Grid, Glasgow City Council, Scottish Government, NHS, Capita, the BBC and Morgan Stanley.

# Finance

BA Honours (UCAS N300)

Learn the principles of investment and value, business finance and decision-making and the analysis of bonds, shares and derivatives.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Higher Maths B; Higher Maths A for combinations with Accounting or Maths & Statistics)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; A Level Maths B; A Level Maths A for combinations with Accounting or Maths & Statistics)

**IB 36** (no subject below 5 and including English SL5, Maths/Maths Studies SL6; Maths HL6 for combinations with Accounting or Maths & Statistics)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

## JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NN43)  
Business Analysis & Technology (UCAS GN23)  
Business Enterprise (UCAS NN13)  
Business Law (UCAS NM32)  
Economics (UCAS LN13)  
Hospitality & Tourism Management (NN38)  
Human Resource Management (UCAS NN36)  
Management (UCAS NN32)  
Marketing (UCAS NN35)  
Maths & Statistics (UCAS NG33)

## CONTACT

+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

## Why Finance at Strathclyde?

- Benefit from studying a finance degree which is unique in Scotland in terms of the range and depth of issues covered
- Gain skills for a career in banking, investment management, pension fund management and insurance
- Enhance your employment prospects by combining your finance studies with a second subject.
- Our Finance degree is recognised for the IMC advantage
- Accounting & Finance is ranked No 1 in the UK in the Complete University Guide 2017

## Your Studies

**Year 1:** introduction to the basic principles of investment and value, valuation of bonds and shares, investment decision in business companies and accounting methods

**Year 2:** topics include domestic and international financial decision-making and policies in business, risk and return and pricing of company shares and the efficiency of financial markets; develop an understanding of financial statements and the banking system as well as statistical and spreadsheet methods of analysing financial problems

**Year 3:** core classes include advanced methods of empirical analysis, and access to historic and live data; choice of optional classes covering financial statements or financial markets and the banking system as in Year 2.

**Year 4:** you specialise in Finance as a single Honours subject or continue to a joint Honours degree in Finance and your other principal subject; for single Honours in Finance, your research dissertation is in Finance; for joint Honours, you can choose a dissertation in either Finance or your other subject

## Your Career

Our Finance graduates go on to become financial analysts or investment managers with a range of financial institutions. Recent employers include Bank of America Merrill Lynch, Deloitte, Ernst & Young, Standard Life Investments and Morgan Stanley.



“

I was eager to come from Bulgaria to study in the UK, and Strathclyde was recommended as one of the top universities for Accounting and Finance. The University has allowed me to develop not just as a scholar but also as an individual. Societies and groups provide the opportunity to participate in extracurricular activities and also to get a head start in your career.

SARA DABOUR  
ACCOUNTING & FINANCE

”

# Hospitality & Tourism Management

BA Honours (UCAS N890)

Studying Hospitality & Tourism Management opens doors to the largest and fastest-growing sector of the economy.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Maths Higher A for combinations with Accounting)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting)

**IB 36** (no subject below 5 and including English SL5, Maths/Maths Studies SL5; Maths HL6 for combinations with Accounting)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

## JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NN48)

Business Analysis & Technology (UCAS NN8F)

Business Enterprise (UCAS NN1V)

Business Law (UCAS MN28)

Finance (UCAS NN38)

Human Resource Management (UCAS NN6V)

Management (UCAS NN2W)

Marketing (UCAS NN5V)

## CONTACT

+44 (0)141 548 4114

sbs-adviser@strath.ac.uk

## Why Hospitality & Tourism Management at Strathclyde?

- Study Hospitality & Tourism Management in the context of management, strategy, marketing, enterprise, economics and ethics
- Be part of a dynamic industry which generates £5 billion to the Scottish economy and creates one in 10 jobs
- Opportunity for work placement in the UK and abroad
- Accredited by the Institute of Hospitality
- Enjoy guest lectures from academic and industry giants
- Hospitality & Tourism is ranked No 2 in the UK in the Complete University Guide 2017

## Your Studies

**Year 1:** introduction to the basic concepts, issues and features of hospitality, tourism, cultural heritage, festivals and events

**Year 2:** classes include Managing the Service Encounter which focuses on the integrated approach to the management of customers, employees and the service setting; Destination Marketing Management explores the challenges in managing and marketing destinations across organisational and product boundaries using a range of industry contexts

**Year 3:** you put theory into practice in our Events Management class by planning and executing a corporate, entertainment or charitable event; in the Tourism, Product and Services class, you learn about the internationalisation and business elements of hospitality and tourism while you engage with industry

**Year 4:** Hospitality and Tourism Analysis Case Studies and Case Histories encourage discussion and debate; choice of classes such as Strategy and Leadership, Being an Ethical Manager, and Family Business: Theory and Practice; dissertation on a hospitality and tourism topic of your choice under the supervision of our staff

## Your Career

Recent graduates have been recruited into the hotel industry and the service sector. There is evidence that, as a result of an identified leadership deficit in the hospitality and tourism sector, our students get promoted quickly as they hold the credential of a degree from the only triple-accredited business school that offers studies in hospitality and tourism.

# Human Resource Management

BA Honours (UCAS N600)

Human Resource Management deals with the ways in which people are managed in the workplace.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Higher Maths A for combinations with Accounting; Higher Maths B for combinations with Finance)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting; A Level Maths B for combinations with Finance)

**IB 36** (no subject below 5 and including English SL5; Maths/Maths Studies SL5; Maths HL6 for combinations with Accounting; Maths/Maths Skills SL6 for combinations with Finance)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

## JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NN46)

Business Analysis & Technology (UCAS GN26)

Business Enterprise (UCAS NN16)

Business Law (UCAS NM62)

Economics (UCAS LN16)

Finance (UCAS NN36)

Hospitality & Tourism Management (UCAS NN6V)

Management (UCAS NN62)

Marketing (UCAS NN65)

Psychology (UCAS NC68)

## CONTACT

+44 (0)141 548 4114

sbs-adviser@strath.ac.uk

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## Why Human Resource Management at Strathclyde?

- Study areas such as recruitment and selection, training and developing, rewards, diversity and managing conflict at work
- The Department of Human Resource Management is an accredited centre for teaching HRM
- Opportunity to study in Europe, North America for one or two semesters
- Join our HRM Society and share knowledge and practice, awareness of careers and build relationships with alumni and employers

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## Your Studies

**Year 1:** the introduction to Human Resource Management, focusing on how people are organised and managed in the workplace and examining the relationship between the employer and employee in the organisation and production of goods and services

**Years 2:** classes focus on workplace behaviour, developing an understanding of managing people from an organisational psychology perspective through awareness of behaviour, attitude and motivation

**Year 3:** in Work Employment and Society you explore developments in the workplace, workplace regulation and restructuring related to the notion of job quality; Employment Relations introduces an understanding of the British system of employment relations and examines the role of trade unions, employers and the state in collective bargaining, employee participation and industrial conflict

**Year 4:** you undertake a dissertation on an HR topic; specialist classes include Advanced Organisational Behaviour, HR in the Global Economy, HRM and Employee Relations in Public Services, and Perspectives on Work and Employment

## Your Career

A degree in Human Resource Management from Strathclyde is greatly valued by employers. Job titles of recent graduates include change consultant, HR advisor, HR assistant, personal support assistant and associate recruitment consultant with employers such as ScottishPower, the NHS, Clydesdale Bank and the Forestry Commission.

# Management

BA Honours (UCAS N200)

Whether developing products or improving the nation's health the answer often comes down to management.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Higher Maths A for combinations with Accounting; Higher Maths B for combinations with Finance)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting; A Level Maths B for combinations with Finance)

**IB 36** (no subject below 5 and including English SL5, Maths/Maths Studies SL5; Maths HL6 for combinations with Accounting; Maths/Maths Studies SL6 for combinations with Finance)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

### JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NN42)  
Business Analysis & Technology (UCAS GN22)  
Business Enterprise (UCAS NN12)  
Business Law (UCAS NM22)  
Economics (UCAS LN12)  
Finance (UCAS NN32)  
Hospitality & Tourism Management (UCAS NN2W)  
Human Resource Management (UCAS NN62)  
Marketing (UCAS NN25)

### CONTACT

+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

## Why Management at Strathclyde?

- Learn to engage with established traditions and develop the skills to translate the theory into practice
- Develop understanding of business structure with the ability to analyse business data and information
- Opportunity to undertake an industry placement
- Gain sought-after team-working, communication and decision-making skills
- Study in a department with a long history of innovative research and teaching covering the practices and processes of managing

## Your Studies

**Year 1:** Management in a Global Context introduces the concept of management processes and practices

**Year 2:** Organisational Analysis and Strategy equips you with the knowledge to use strategic concepts to analyse organisational structure; Understanding Change in Organisations explores the implications for change in a world that is internationally connected

**Year 3:** in Contemporary Trends in Management you study management technologies and innovation in private, public and third sector organisations; the Reflective Manager class develops your ability to apply management theory to different cultures and contexts and link the relevance of theory to the practice of management; you also develop your capacity to engage in reflection, critical self-reflection and reflexivity as a future practising manager

**Year 4:** Contemporary Issues in Management examines the challenges managers face in today's ever-changing environment; you also choose from a range of optional classes and undertake a dissertation on a Management topic of your choice

## Your Career

Your commercial awareness will be valued by a range of employers across all industries and sectors. Recent graduates are working for Ernst & Young, The Royal Bank of Scotland, Hewlett Packard and Proctor & Gamble.

# Marketing

BA Honours (UCAS N500)

Understand customer requirements, added-value products and services and the role of communications in customer satisfaction.

## ENTRY REQUIREMENTS

Required subjects are shown in brackets; see also general admissions information (pg 118)

### Highers

1st sitting: **AAAB/AABBB**; 2nd sitting: **AAABBB** (Higher English B; Maths National 5 B, or equivalent; Higher Maths A for combinations with Accounting; Higher Maths B for combinations with Finance)

### A Levels

Year 1 entry: **ABB-BBB** (GCSE English Language B or Literature B, or an essay-based A Level B may be considered in lieu of English; GCSE Maths B; A Level Maths A for combinations with Accounting; A Level Maths B for combinations with Finance)

**IB 36** (no subject below 5 and including English SL5, Maths/Maths Studies SL5; Maths HL6 for combinations with Accounting; Maths/Maths Studies SL6 for combinations with Finance)

### HNC/HND

Relevant HNC/HND, A in Graded Units; for advice on entry to Year 2 contact Business School Admissions

### JOINT HONOURS SUBJECT COMBINATIONS

Accounting (UCAS NN45)  
Business Analysis & Technology (UCAS GN25)  
Business Enterprise (UCAS NN15)  
Business Law (UCAS NM52)  
Economics (UCAS LN15)  
Finance (UCAS NN35)  
Hospitality & Tourism Management (UCAS NN5V)  
Human Resource Management (UCAS NN65)  
Management (UCAS NN25)  
Psychology (UCAS NC58)

### CONTACT

+44 (0)141 548 4114  
sbs-adviser@strath.ac.uk

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## Why Marketing at Strathclyde?

- Develop the skills for a variety of marketing and management careers
- Study in a UK leading centre of marketing education
- Benefit from the opportunity to take part in student competitions to win a paid internship
- Opportunity to study abroad
- Broaden your knowledge through guest lectures by leading industry experts
- Marketing is ranked No 1 in Scotland and in the UK top 10 in the Complete University Guide 2017

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## Your Studies

**Year 1:** learn the basic principles of marketing and explore the role of marketing within an organisation

**Year 2:** classes examine consumer behaviour, marketing research and the challenges that marketers face in the retail and service sectors

**Year 3:** subjects covered will include marketing communication in the digital age and strategic marketing in an international context

**Year 4:** learn about the value of brands to firms and consumers and how to communicate a branding strategy; choice of option classes including International Business Management, Managing Customer Relationships, Advances in Consumer Behaviour, Managing Integrated Marketing Communications and Sports Marketing

## Your Career

The Department of Marketing is highly-valued by employers and our graduates find jobs in a wide range of industries including the drinks, finance and service sectors. Recent job titles include Account Executive, Brand Manager, Business Analyst, Retail Buyer, Digital Marketing Assistant, Marketing Manager, Media Executive and Social Media Consultant, with employers such as Apple, Ikea, Unilever and Whyte & Mackay.

# ENTRY REQUIREMENTS FOR MATURE STUDENTS

Course	Highers	A Levels	HNC/HND	Other Qualifications
BA (Honours) Humanities & Social Sciences	ABB in preferred subjects (see pg 56)	BB	<p><b>HNC Social Sciences</b> A in Graded Unit may enable Year 1 entry to any subjects within the BA</p> <p><b>HND Social Sciences</b> ABB in Graded Units may enable second-year entry to any two of History, Politics &amp; International Relations or Psychology with six HNC/HND credits in each of the two subjects</p> <p><b>HNC Communication, Journalism or Creative Industries Professional Writing Skills</b> A in the Graded Unit may enable first-year entry to Journalism &amp; Creative Writing</p>	<p><b>Scottish Wider Access Programme (SWAP)</b> Access to Humanities AAA; Maths National 5 C, or equivalent</p> <p><b>Strathclyde Pre-entry Access Course</b> Pass mark of 60%</p> <p><b>Open University</b> 60 points at level 1 or above in relevant subject(s)</p> <p><b>Diploma of Higher Education</b> Social Sciences (City of Glasgow College) pass in all modules at first attempt may permit entry to third-year History and Politics &amp; International Relations</p>
BA (Honours) Philosophy, Politics & Economics	ABB to AAB	BB		
BA (Honours) Psychology & Counselling	AAB in relevant subjects	BB	<p><b>HNC Counselling</b> A in Graded Unit for Year 1 entry</p>	Considered on an individual basis
<b>Additional Information:</b> Good reference and personal statement required				
LLB (Honours) Law	BBBB (Humanities subjects) at one sitting	BB	<p><b>HND Legal Services:</b> AAA in Graded Units enables Year 1 entry to the LLB; entry with HNC not offered</p>	<p><b>Scottish Wider Access Programme (SWAP)</b> Access to Humanities AAA; contact the Law School for other accepted access courses (see pg 76)</p> <p><b>Pre-entry Access Course</b> Pass mark of 70% including Law, English and another subject</p> <p><b>Open University</b> 60 points at level 1 or above in relevant subject(s)</p>

Course	Highers	A Levels	HNC/HND	Other Qualifications
BA (Honours) Primary Education	ABB (at one sitting)	BB	<b>First-year Entry</b> HNC Early Education & Childcare or Social Sciences, A in the Graded Unit, plus two Highers at B  HND Social Sciences, ABB in Graded Units will be considered for entry to first year	<b>Scottish Wider Access Programme (SWAP)</b> SWAPWest Access to Primary Education ABB  <b>Pre-entry Access Course:</b> Pass at 60%, plus three Highers (including English), and relevant Maths requirements

**Additional Information:** The Scottish Government has a mandatory requirement for passes in Higher English (or Communication 4 and Literature 1) and Maths at Intermediate 2 or National 5 (B)/National 5 Lifeskills Maths; please note: Higher English at A/B is preferred for the BA (Honours) Primary Education degree at Strathclyde

BA (Honours) Social Work	BBB (preferably Humanities subjects including English)	BBB	<b>First-year Entry</b> HNC Social Care; Social Sciences; Childcare & Education; Working with Communities; Counselling; Supporting Learning Needs; A in Graded Unit	<b>Scottish Wider Access Programme (SWAP)</b> Access to Humanities; Social Work BBB <b>Pre-entry Access Course</b> Pass mark of 60% <b>Open University</b> Please seek advice from course contact (see pg 85)
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**Additional Information:** English and Maths, minimum Intermediate 2 C or National 5 (B) (or GCSE C) preferred but not essential; evidence of relevant work experience and a well-focused Personal Statement required

BSc (Honours) Speech & Language Pathology	ABB including English at B and a science (over one sitting)	AB	<b>First-year Entry</b> HND in course related to Health and Social Care with AA in Graded Units	<b>Open University</b> 60 credits at Level 1 or above in relevant subject(s); 30 credits at Level 1 where applicants have a degree but have no academic achievements within the last five years
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**Additional Information:** Applicants not taught in the medium of English will require an IELTS score of 7.5 with no element below 7

BSc (Honours) Sport & Physical Activity	See course entry, pg 88	See course entry, pg 88	Relevant HNC/D (eg Sports Coaching with Development of Sport; Fitness, Health and Exercise; Applied Sports Science) with BBB in Graded Units	Considered on an individual basis
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**Additional Information:** Higher English or equivalent Humanities subject at Grade B preferred; Higher Maths or a Science subject at Grade B preferred; Personal Statement must demonstrate a real commitment to sport and physical activity, and an enthusiasm for working with others

# MATURE STUDENTS (CONTINUED)

Course	Highers	A Levels	HNC/HND	Other Qualifications
BA (Honours) Strathclyde Business School	<p><b>ABB</b> including English</p> <p>(For Accounting: as above including Maths at <b>B</b>; for International Business &amp; a Modern Language: as above including <b>B</b> in the language to be studied)</p>	<p><b>AB</b></p> <p>Accounting: as above including Maths at <b>B</b> International Business &amp; a Modern Language: as above including <b>B</b> in the language to be studied</p> <p><b>BB</b> in your proposed two Principal Subjects may allow second-year entry</p>	<p>Passes at <b>A</b> in all graded units are required</p> <p>Where possible, successful HND applicants are offered second-year entry where subjects have been studied in sufficient depth; HND modules will be evaluated from information submitted on the UCAS application</p> <p>Contact SBS admissions for advice (see pg 118)</p>	<p><b>Scottish Wider Access Programme (SWAP)</b></p> <p>Access to Humanities <b>AAB</b>. Applications are considered on an individual basis; applicants may be invited for interview</p> <p><b>Pre-entry Access Course</b></p> <p>Pass mark of 60% plus successful completion of the Business module at 65%; in addition for Accounting Higher Maths at <b>B</b> and for International Business &amp; Modern Languages Higher at <b>B</b> in the language to be studied</p> <p><b>Diploma of Higher Education Business</b> (City of Glasgow College) pass in all modules on first attempt may permit entry to third year</p> <p><b>Open University</b></p> <p>60 points at level 1 or above in relevant subject(s)</p>
Engineering Courses	<p><b>ABBB</b> in required subjects (Maths and Physics for most courses); check individual course entry requirements (pgs 24 - 53) for specific requirements</p>	<p><b>BBC</b> in required subjects (Maths and Physics for most courses); check individual course entry requirements (pgs 24 - 53) for specific requirements</p>	<p>HNC/HND see individual course entry requirements</p>	<p><b>Scottish Wider Access Programme (SWAP)</b></p> <p>Access courses in engineering and certain science subjects are considered on an individual basis; SWAP students may be required to attend Summer School</p> <p><b>Open University</b></p> <p>60 points at level 1 or above in relevant subject(s) are considered on an individual basis; OU students may be required to attend Summer School</p>
Science Courses	<p>Minimum <b>BBB</b> gained over the last two years in required subjects; check individual course entry requirements (pgs 90 - 115) for specific requirements</p>	<p>Minimum <b>BB</b> gained over the last two years in required subjects; check individual course entry requirements (pgs 90 - 115) for specific requirements</p>	<p>HNC/HND see individual course entry requirements</p>	<p><b>Scottish Wider Access Programme (SWAP)</b></p> <p>Access courses in science subjects are considered on an individual basis; SWAP students may be required to attend Summer School</p> <p><b>Open University</b></p> <p>60 points at level 1 or above in relevant subject(s) are considered on an individual basis; OU students may be required to attend Summer School</p>

# ENTRY REQUIREMENTS FOR NON-UK STUDENTS

The table below provides general guidance on the range of qualifications and entry standards required for admission to our undergraduate courses. Academic requirements vary from course to course and some programmes may require specific subjects. For more detailed information, visit [www.strath.ac.uk/studywithus/internationalstudents](http://www.strath.ac.uk/studywithus/internationalstudents)

Country	Qualification	Grade range
Austria	Reifeprüfung / Maturazeugnis	1 - 3
Belgium	Diploma van Secundair/Certificate d'Enseignement Secondaire Supérieur/Abschlusszeugnis der Oberstufe des Sekundarunterrichts	7 - 9
Bulgaria	Diploma za Sredno Obrazovanie	4 - 6
Cyprus (Greek)	Apolytirion	15 - 19
Cyprus (Turkish)	Devlet Lise Diploması / Lise Bitirme Diploması	7 - 9
Czech Republic	Maturitní Zkouška	1 - 3
Denmark	Studentereksamen	8 - 11
Estonia	Gümnaasiumi lõputunnistus and Riigieksam	3 - 5
Finland	Ylioppilastutkintotodistus/Studentexamensbetyg	4 - 7
France	French Bacculaureate	14/20 - 16/20
Germany	Abitur	1 - 2
Greece	Apolytirion of Eniaio Lykeio	16 - 19
Hungary	Érettségi	4 - 5
Ireland	Irish Leaving Certificate	BBBB - AAAABB
Italy	Diploma di Esame di Stato/Maturita	65 - 100
Latvia	Atestāts par vispārējo vidējo izglītību	A - B
Lithuania	Brandos Atestatus	8 - 10
Luxembourg	Diplôme de Fin d'Etudes	40 - 48
Malta	Matriculation Certificate – Advanced Level (MC)	A - C
Netherlands	Diploma Voorbereidend Wetenschappelijk Onderwijs (VWO)	6 - 9
Poland	Matura	60% - 85%
Portugal	Diploma de Ensino Secundário	16 - 20
Romania	Diploma de Bacalaureat	7 - 10
Slovakia	Maturita	1 - 3
Slovenia	Maturitetno Spricevalo	3 - 5
Spain	Titulo de Bachiller	7 - 9
Sweden	Fullständigt Slutbetyg från Gymnasieskolan	A - C
USA	High School Graduate Diploma Cumulative	GPA (3.0-4.0) plus AP (4-5) or one SAT II (600-800)
European Bacculaureate		70 - 90%
International Bacculaureate	See relevant course entry	32 - 40

**YOUR ROUTE  
TO UNIVERSITY**

## **The University of Strathclyde is committed to providing a high quality education and experience to all its students, regardless of background.**

We welcome applications from talented individuals with the potential to succeed academically and we are committed to supporting widening access to Higher Education and to encouraging students from diverse backgrounds to apply to study at Strathclyde.

### **What are the entry requirements?**

Detailed entry requirements are given at each course entry within the relevant Faculty section of this prospectus. For the latest information visit [www.strath.ac.uk/studywithus](http://www.strath.ac.uk/studywithus)

### **General Entrance Requirements**

All applicants must demonstrate proficiency in English and Maths (or a science). For UK students this usually means a minimum of National 5 C, GCSE grade C, or appropriate equivalent. Higher English is always desirable. For all of our courses, Highers and Advanced Highers in the same subject will be considered as separate qualifications.

We accept SQA Highers and Advanced Highers, the Scottish Baccalaureate, HNC and HND qualifications, GCSE and GCE A Levels, and the International Baccalaureate. We acknowledge the development of Foundation Apprenticeships and the skills gained; please check the University website for up-to-date details about this qualification.

We also accept a wide range of European and international qualifications. Please visit [www.strath.ac.uk/studywithus/internationalstudents](http://www.strath.ac.uk/studywithus/internationalstudents) for country-specific guidance and entry requirements for prospective international students. A guide to entry requirements for students from the EU is also available on pg 143.

A Level entry requirements are shown in a range representing 'Typical' and 'Minimum' (eg ABB-BBB). Typical grades are normally needed for an offer to be made; minimum requirements indicate the minimum grades that must be achieved for an offer to be considered.

We welcome a range of BTEC qualifications. As a guide, the typical grade requirement for the Extended Diploma will be DDD – DMM. Some courses may require specific grades in particular units. Please contact the relevant Academic Selector for further guidance.

The University does not express its offers in terms of UCAS tariff points.

We will take alternative qualifications and additional factors into account when making our decisions including your UCAS personal statement and the academic reference. Every application is considered on an individual basis, so please contact an academic department or staff in the Recruitment & International Office if you have a query about your qualifications (+44 (0)141 548 2814, [ugenquiries@strath.ac.uk](mailto:ugenquiries@strath.ac.uk)).

### **Sitting Highers at Colleges of Further Education**

The University will only consider Highers taken over a maximum of two sittings. If you have taken Highers in S5 and S6 at school and are progressing to college before applying to university you should contact the Academic Selector for your chosen course for advice.

### **Contextual Data in Admissions**

In order to support the University's commitment to widening access and encouraging students from diverse backgrounds to study with us, specific items of contextual data are taken into account when we consider applications. More information on the use of this data in admissions can be found at [www.strath.ac.uk/studywithus/wideningaccess](http://www.strath.ac.uk/studywithus/wideningaccess)

### **Students with a Care Background**

At Strathclyde we aim to promote applications from care leavers and anyone who has previously been cared for by a local authority – for example in residential or foster care, cared for by friends or relatives, or cared for at home. We are committed to supporting you if you have a background in care; in recognition of this, we are a Buttle UK Quality Mark award winner in the ‘exemplary’ category – the highest level of the mark. ‘Strathclyde Cares’ is our suite of support for those from care backgrounds. Visit [www.strath.ac.uk/careleavers](http://www.strath.ac.uk/careleavers) or get in touch with our Care Advisor, Debbie Duncan, for more information and to access all of the support on offer (0141 548 4248, [d.duncan@strath.ac.uk](mailto:d.duncan@strath.ac.uk)).

### **Mature Students**

The University considers anyone who has been out of school for around four years by the start of their course to be a mature student. Concessions are made with regards to entry requirements for most courses and we will normally look for evidence of some recent academic study and/or grounding in any course subjects. For more information or advice about studying as a mature student, contact 0141 548 4248.

### **Pre-entry Access Course**

This evening course provides an entry route to courses within the Faculty of Humanities & Social Sciences and Strathclyde Business School. A law module is available for those who gain entry to the LLB degree. For details visit [www.strath.ac.uk/cll/alp/access](http://www.strath.ac.uk/cll/alp/access)

### **How do I apply?**

Applications for full-time study are processed through the Universities and Colleges Admissions Service (UCAS), which will forward your application to the University. Applications are made using the UCAS online system. There is a fee for this service. Visit the UCAS website for fee information and instructions on how to apply online ([www.ucas.com](http://www.ucas.com)).

UCAS Apply opens for 2018 entry in late May 2017 and applications will be forwarded to providers from early September onwards. The application deadline for all courses at Strathclyde is 15 January 2018. All applications received by this date will be given equal academic consideration.

Applications made to UCAS after this date but before 30 June 2018 will still be considered if there are places available. After this date you can apply through Clearing but please contact us regarding availability of places.

### **What happens next?**

You will receive an acknowledgement from UCAS along with details of each of the universities and courses that you have applied for. Please note that the application process can vary from course to course.

For example, you may be asked to attend an interview, attend our Summer School or where interaction with children or vulnerable adults is necessary, we may require you to register with the Protecting Vulnerable Groups Scheme.

If you are considering deferring entry (ie applying in January 2018 for entry in September 2019), please contact the relevant Academic Selector in advance of submitting your UCAS application as deferred entry may not be possible for some courses.



Dungavel Hill, South Lanarkshire

# **INTERNATIONAL STUDENTS**

## International Students

Each year, the University welcomes students from more than 100 countries. Students from countries outside the European Economic Area and Switzerland will normally require a Tier 4 Adult (General) Visa in order to study in the UK.

To apply for this visa students will require a Confirmation of Acceptance for Study (CAS) and also appropriate evidence of their funding. A CAS will be issued by the University when you accept our Offer, meet any conditions mentioned in the Offer, and pay a deposit. This deposit is offset against your tuition fees. If you have an official financial sponsor, for example your government or an international scholarship agency, you will not need to pay this deposit. Instead, you should send a copy of your sponsorship letter to the University's Finance Office for consideration.

UK Visas and Immigration have very specific requirements relating to the level and nature of funding for studies and the supporting evidence needed when applying for a visa. You must provide evidence that you have the required level of funds relating to fees and maintenance (living costs) for the first nine months of your study. Further details and up-to-date information on visa requirements can be found at [www.strath.ac.uk/visas](http://www.strath.ac.uk/visas)

## International Study Centre

In partnership with Study Group the University has established an International Study Centre which offers international students who do not meet direct entry requirements the option to complete a Foundation or Pre-Masters programme at the Centre with successful students transferring to the University's undergraduate and postgraduate degree courses. Visit <http://isc.strath.ac.uk> for information about the study plan options and pathways.

## English Language Requirements

If English is not your first language, you must provide evidence of your proficiency. The UK government's preferred English Language test is IELTS. Strathclyde's standard English language requirements are as follows:

- IELTS: 6.5 with no individual component below 5.5
- PTE: 62 overall (minimum component score 51)

Some courses may have different English language requirements. Please refer to individual course information for details.

Students with alternative English Language qualifications or who have lived and studied in a majority English-speaking country may not be required to take the IELTS test. Please contact [international@strath.ac.uk](mailto:international@strath.ac.uk) for further guidance.

## English Language Programmes

Students who do not meet the English Language requirements for the programme that they wish to study may enroll on a pre-session English course at Strathclyde prior to beginning their degree programme. All of our pre-session English programmes are accredited by BALEARP (British Association for Lecturers in English for Academic Purposes), and are designed to prepare students for the real tasks and situations that students will encounter in their studies. Up to 44 weeks of tuition are available, and students may enter the programme with IELTS scores of 4.0 overall (no subtest less than 4.0) or above. (Note: students wishing to take a pre-session English programme must sit the IELTS for UKVI – Academic test).

One month of free pre-session English tuition is available to international students paying full overseas fees. Up to four hours of free in-session tuition is also available.

For further information, please visit [www.strath.ac.uk/studywithus/englishlanguage/teaching](http://www.strath.ac.uk/studywithus/englishlanguage/teaching)



Spiral staircase inside The Lighthouse

# **SCHOLARSHIPS AND FEES**

## Scholarships and Bursaries

We believe that Higher Education is the route to a better job and quality of life. Every student should have the chance to come to university and our generous package of support is designed to help you during your studies.

### Students from England, Northern Ireland and Wales

- Strathclyde Excellence Scholarship – £1,000 per year of study; for fee-paying students who achieve AAB at A Level or above (or equivalent)\*; not means-tested
- Accommodation Bursary – £1,000 for all first-year or new entrant students who stay in University accommodation; not means-tested
- Strathclyde Access Bursary – £1,000 to £3,000 per year of study, based on household income; for fee-paying students who meet the eligibility criteria; means-tested

\* Those who qualify for more than one award should note that some departmental scholarships do not allow more than one to be held simultaneously.

### Students from Scotland/EU

The University has a large number of scholarships available to undergraduate students.

### Students from outside the EU

A number of scholarship opportunities are available for international undergraduate students paying full overseas tuition fees.

Awards include:

- Faculty of Engineering Excellence Scholarship up to £3,500
- Faculty of Humanities & Social Sciences Undergraduate Scholarship Award – up to £3,000 per year
- Faculty of Science Undergraduate Elite Scholarship – up to £3,000 per year
- Bachelor of Business Administration (BBA) Scholarship – up to £2,000 per year

Visit our scholarships search at [www.strath.ac.uk/studywithus/scholarships](http://www.strath.ac.uk/studywithus/scholarships)

## Tuition Fees

Money is always high on the list of priorities of every student. Central to your student budget will be tuition fees and how you will pay them. Here we outline some of the variables in these fees.

### Students from Scotland

Students who reside in Scotland will not normally be required to make a personal contribution towards the cost of their annual tuition. Their tuition fees will be paid by the Scottish Government through the Student Awards Agency Scotland (SAAS). For full information visit [www.saas.gov.uk](http://www.saas.gov.uk)

Student Loans for living costs are available to eligible students on a means-tested basis; entitlement varies depending on household income and whether you are living in the parental home or away from home while you study.

### Students from England, Wales and Northern Ireland

For students in this category there will be a tuition fee of £9,250 per annum. The cost will be capped at £27,750 for a four-year Bachelor Honours degree.

Please note that fees are subject to change and may increase. For up-to-date information, please visit [www.strath.ac.uk/studywithus/feesfunding/tuitionfees](http://www.strath.ac.uk/studywithus/feesfunding/tuitionfees)

Tuition fee loans are available to cover the cost of fees, repayment of which commences after graduation when earning a salary of £21,000 per annum (£17,495 in Northern Ireland). Students will be entitled to apply for a living cost loan; some students may be eligible for a maintenance grant depending on parental income. Details can be obtained from the relevant funding authorities:

**England:** Department for Education and Skills: [www.gov.uk/student-finance](http://www.gov.uk/student-finance)

**Wales:** Student Finance Wales: [www.studentfinancewales.co.uk](http://www.studentfinancewales.co.uk)

**Northern Ireland:** Education & Library Boards: [www.studentfinancenir.co.uk](http://www.studentfinancenir.co.uk)



## EU and International Students

Under current arrangements, students who reside in the EU will not normally be required to make a personal contribution towards the cost of their annual tuition. Their tuition fees will be paid by the Scottish Government through the Student Awards Agency Scotland (SAAS). For full information visit [www.saas.gov.uk](http://www.saas.gov.uk)

Students from non-EU countries must pay full overseas fees. For up-to-date information on fees visit [www.strath.ac.uk/studywithus/feesfunding/tuitionfees](http://www.strath.ac.uk/studywithus/feesfunding/tuitionfees)



**HELPING WITH  
YOUR STUDIES**

**Learning methods include lectures, tutorials, laboratories, problem-solving classes, integrative discussions, projects and placements. Our high-quality teaching and learning environment will help you achieve your goals.**

Innovative learning methods and state-of-the-art facilities are designed to give you the best possible learning experience.

As a Strathclyde student, you will benefit from:

- various styles of teaching space including interactive classrooms
- specialised facilities such as digital design and rapid prototyping facilities, virtual environment labs, top-flight engineering simulators, new multimillion-pound chemical engineering facilities, laser and photonics facilities and multimedia language labs
- campus-wide wireless internet access, numerous computer labs, and internet connections in all student residences

### **Semesters**

Teaching takes place over two 12-week semesters, each followed by a revision and examination period. There is normally a two-week break at Christmas and at the start of April; the academic year ends in early June.

Note: Because of external requirements, certain courses in the Faculty of Humanities & Social Sciences do not follow the semester system.

### **Credits**

The University operates a uniform credit-based modular course system. The standard curriculum normally comprises six 20-credit classes per year, usually including certain compulsory classes and a proportion of electives. Students are normally expected to undertake 120 credits a year, which equates to 1,200 hours of study over the 30-week academic year, or roughly 40 hours per week.



You choose the classes most suited to your interests and ambitions (within the requirements of specific degrees and constraints of timetabling). This means that subject to approval, you may be able to change from one course to another, provided the new programme can accept, at least in part, the credits already gained.

### **Assessment**

Your academic performance is assessed by University teaching staff, with external examiners checking and validating the marks awarded.

In most courses, degree exams provide the main evidence for decisions regarding progress. The main exams are held each year in May/June and in August (for resits). Some courses also have an exam in December to assess first-semester classes. Degree exams are usually of two or three hours' duration and can involve solving problems, writing essays and/or completing multiple-choice answer tests.



Entrance to Glasgow Green

Some classes are assessed solely on the basis of coursework – marks given for essays, worked examples, laboratory exercises and reports throughout the year provide a coursework mark.

Generally, however, final exam and coursework marks are combined in varying proportions in assessing your performance.

We are committed to supporting the development of your learning and study skills through a range of services which will help you achieve your goals.

We aim to help you to adapt to university-style study by providing practical advice on how to prioritise and manage your studies and overcome any challenges you may experience. You will have your own Study Adviser to answer your questions and help find solutions to any problems with your courses, studying, exams or personal pressures.

Our Study Skills Service is available to help all students enhance their academic performance, across all academic disciplines. Our specialist advisers work with individuals on a one-to-one basis and also with small groups of two to three students.

Areas of support on offer include:

- organisation and self-management
- reading and note-taking skills
- writing skills
- presenting
- critical analysis and evaluation
- editing and reviewing
- managing assessments and understanding feedback
- exam preparation

### **Disability Service**

The Disability Service offers information, advice and assistance for applicants and students with disabilities. The team supports students with a range of disabilities including, but not limited to, dyslexia and specific learning difficulties,

Asperger syndrome, mental health issues, long-term illnesses, and mobility or sensory impairment.

We can help you identify effective strategies, assistive equipment or software, facilities or services which can support you during your time at Strathclyde. This may include assistive technology training, mentoring, exam adjustments, attending a study skills session, or accessing support with communication or note-taking in lectures.

We can also assist you to apply for Disabled Students' Allowance for funds for equipment and other support you may need during your studies.

Staff at the Disability Service welcome the opportunity to discuss with disabled applicants how to get the most out of their experience at Strathclyde.

# WHERE WE ARE



# OUR CAMPUS



- 1 Technology and Innovation Centre
- 2 Sports Centre
- 3 Students' Union
- 4 James Weir Building
- 5 Strathclyde Business School
- 6 HaSS Quarter
- 7 Library
- 8 Strathclyde Institute of Pharmacy and Biomedical Sciences
- 9 Campus Village
- 10 Towards the Merchant City
- 11 Towards the City Centre

# **CITY-CENTRE ATTRACTIVE**



1



2



3



4

- 1 **Merchant City**  
Home to lively bars, restaurants and concert venues
- 2 **Glasgow Green**  
Oldest of the city's 90 parks and green spaces
- 3 **Gallery of Modern Art**  
Offering exhibitions, shop, library and café
- 4 **Buchanan Street**  
Glasgow's style mile offering the best of high-street and designer shopping



# COURSES 2018

The following undergraduate courses are offered at Strathclyde. Full details of entry requirements are given within each course entry. If you would like to find out more about a particular course, please use the contact details given in the entry.

■ Engineering ■ Humanities & Social Sciences ■ Science ■ Strathclyde Business School

COURSE	HIGHERS	A LEVELS	PAGE	COURSE	HIGHERS	A LEVELS	PAGE				
ACCOUNTING <sup>†</sup> (BA Hons)	AAAA/AAAB	AAA	126	COMPUTER SCIENCE (MEng)	AAAA/AAAB	AAB-BBB	102				
AERO-MECHANICAL ENGINEERING (MEng)	AAAA	AAB-BBB	26	COMPUTER SCIENCE (BSc Hons)	AAAB/AAABB	ABB-BBB	103				
AERO-MECHANICAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB		DATA ANALYTICS (BSc Hons)	AABB/ABBBC	ABB-BBB					
APPLIED CHEMISTRY & CHEMICAL ENGINEERING (MSci)	AAAB	AAA-ABB	96	ECONOMICS <sup>†</sup> (BA Hons)	AAAB/AAABB	ABB-BBB	133				
ARCHITECTURAL STUDIES (BSc Hons)	AAAB	ABB-BBB	27	EDUCATION <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	58				
BIOMEDICAL ENGINEERING (MEng)	AAAA	AAB-BBB	29	EDUCATION & SOCIAL SERVICES (BA Hons)	See Entry		75				
BIOMEDICAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB		ELECTRICAL & MECHANICAL ENGINEERING (MEng)	AAAAB	AAB-BBB	39				
BIOMOLECULAR SCIENCE (MSci)	AAAB/AABBC	ABB-BBB	92	ELECTRICAL & MECHANICAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB					
BIOMOLECULAR SCIENCE (BSc Hons)	AABB/AAAC		BUSINESS (with Accounting) (BA Hons)	AAAA/AAAB	AAA	120	ELECTRICAL & MECHANICAL ENGINEERING with INTERNATIONAL STUDY (MEng)	AAAAB	AAB-BBB		
BUSINESS (without Accounting) (BA Hons)	AAAB/AAABB	ABB-BBB	120	ELECTRICAL ENERGY SYSTEMS (MEng)	AAAAB	AAB-BBB	37				
BUSINESS ADMINISTRATION (BBA Hons)	AAB (Adv Highers)	AAB-BBB	121	ELECTRONIC & DIGITAL SYSTEMS (MEng)	AAAAB	AAB-BBB	42				
BUSINESS ANALYSIS & TECHNOLOGY <sup>†</sup> (BA Hons)	AAAB/AAABB	ABB-BBB	129	ELECTRONIC & ELECTRICAL ENGINEERING (MEng)	AAAAB	AAB-BBB	40				
BUSINESS ENTERPRISE <sup>†</sup> (BA Hons)	AAAB/AAABB	ABB-BBB	130	ELECTRONIC & ELECTRICAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB					
BUSINESS LAW <sup>†</sup> (BA Hons)	AAAB/AAABB	ABB-BBB	131	ELECTRONIC & ELECTRICAL ENGINEERING with BUSINESS STUDIES (MEng)	AAAAB	AAB-BBB	40				
CHEMICAL ENGINEERING (MEng)	AAAAB	AAB-BBB	30	ELECTRONIC & ELECTRICAL ENGINEERING with INTERNATIONAL STUDY (MEng)	AAAAB	AAB-BBB					
CHEMICAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB		CHEMISTRY (MChem)	ABBB/AAAC	AAA-ABB	95	ENGLISH <sup>†</sup> (BA Hons)	AAAA	ABB-BBB	59
CHEMISTRY (MChem)	ABBB/AAAC	AAA-ABB	95	CHEMISTRY with DRUG DISCOVERY (MChem)	AABB/AAAC	AAA-ABB	97	FINANCE <sup>†</sup> (BA Hons)	AAAB/AAABB	ABB-BBB	134
CHEMISTRY with DRUG DISCOVERY (MChem)	AABB/AAAC	AAA-ABB	97	CHEMISTRY with TEACHING (MChem)	AABB/AAAC	AAA-ABB	98	FORENSIC & ANALYTICAL CHEMISTRY (MChem)	AABB/AAAC	AAA-ABB	101
CHEMISTRY with TEACHING (MChem)	AABB/AAAC	AAA-ABB	98	CHILDHOOD PRACTICE (BA Hons)	See Entry		74	FRENCH <sup>†</sup> (BA Hons)	AAAA	ABB-BBB	61
CHILDHOOD PRACTICE (BA Hons)	See Entry		74	CIVIL ENGINEERING (MEng)	AAAA	AAB-BBB	33	HISTORY <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	62
CIVIL ENGINEERING (MEng)	AAAA	AAB-BBB	CIVIL ENGINEERING (BEng Hons)	AAAB	ABB-BBB	34		HOSPITALITY & TOURISM MANAGEMENT <sup>†</sup> (BA Hons)	AAAB/AAABB	ABB-BBB	136
CIVIL ENGINEERING (BEng Hons)	AAAB	ABB-BBB	33	CIVIL & ENVIRONMENTAL ENGINEERING (MEng)	AAAA	AAB-BBB	36	HUMANITIES & SOCIAL SCIENCES (BA Hons)	AAAA	ABB-BBB	56
CIVIL & ENVIRONMENTAL ENGINEERING (MEng)	AAAA	AAB-BBB	34	CIVIL & ENVIRONMENTAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB		COMPUTER & ELECTRONIC SYSTEMS (MEng)	AAAAB	AAB-BBB	137
CIVIL & ENVIRONMENTAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB	34	COMPUTER & ELECTRONIC SYSTEMS (MEng)	AAAAB	AAB-BBB	COMPUTER & ELECTRONIC SYSTEMS (BEng Hons)	AAAB	ABB-BBB	122	
COMPUTER & ELECTRONIC SYSTEMS (MEng)	AAAAB	AAB-BBB	36	COMPUTER & ELECTRONIC SYSTEMS (BEng Hons)	AAAB	ABB-BBB	COMPUTER & ELECTRONIC SYSTEMS with INTERNATIONAL STUDY (MEng)	AAAAB	AAB-BBB	125	
COMPUTER & ELECTRONIC SYSTEMS (BEng Hons)	AAAB	ABB-BBB		COMPUTER & ELECTRONIC SYSTEMS with INTERNATIONAL STUDY (MEng)	AAAAB	AAB-BBB	63	INTERNATIONAL BUSINESS (BA Hons)	AAAB/AAABB	ABB-BBB	122
COMPUTER & ELECTRONIC SYSTEMS with INTERNATIONAL STUDY (MEng)	AAAAB	AAB-BBB		INTERNATIONAL BUSINESS & a MODERN LANGUAGE (Masters)	AAAB/AAABB	ABB-BBB	125	ITALIAN <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	63

COURSE	HIGHERS	A LEVELS	PAGE
JOURNALISM & CREATIVE WRITING <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	64
LAW <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	66
LAW (LLB Hons)	AAAAB	AAB-BBB	76
LLB Scots & English Law (Clinical) (LLB Hons)	AAAAB	AAB-BBB	77
LAW (Scots & English) (LLB Hons)	AAAAB	AAB-BBB	78
LAW (English) (LLB Hons)	AAAAAB	AAA-AAB	79
LAW with a MODERN LANGUAGE	AAAAB	AAB-BBB	80
MANAGEMENT <sup>†</sup> (BA Hons)	AAAB/ABBB	ABB-BBB	138
MARKETING <sup>†</sup> (BA Hons)	AAAB/ABBB	ABB-BBB	139
MATHEMATICS/MATHEMATICS & STATISTICS (MMath)	AAAB/ABBB	ABB-BBB	104
MATHEMATICS/MATHEMATICS & STATISTICS (BSc Hons)	AABB/ABBB		
MATHEMATICS & COMPUTER SCIENCE (BSc Hons)	AABB/ABBB	ABB-BBB	107
MATHEMATICS & PHYSICS (BSc Hons)	AABB/ABBB	ABB-BBB	108
MATHEMATICS, STATISTICS & ACCOUNTING (BSc Hons)	AAAAA/ AAAAAB	AAA-ABB	106
MATHEMATICS, STATISTICS & ECONOMICS (BSc Hons)	AABB/ABBB	ABB-BBB	
MATHEMATICS, STATISTICS & FINANCE (BSc Hons)	AABB/ABBB	ABB-BBB	
MATHEMATICS, STATISTICS & MANAGEMENT SCIENCE (BSc Hons)	AABB/ABBB	ABB-BBB	
MATHEMATICS with TEACHING (BSc Hons)	AABB/ABBB	ABB-BBB	109
MECHANICAL ENGINEERING (MEng)	AAAAB	AAB-BBB	43
MECHANICAL ENGINEERING (BEng Hons)	AAAB	ABB-BBB	
MECHANICAL ENGINEERING with AERONAUTICS (MEng)	AAAAB	AAB-BBB	
MECHANICAL ENGINEERING with FINANCIAL MANAGEMENT (MEng)	AAAAB	AAB-BBB	
MECHANICAL ENGINEERING with INTERNATIONAL STUDY (MEng)	AAAAB	AAB-BBB	
MECHANICAL ENGINEERING with INTERNATIONAL STUDY (BEng Hons)	AAAB	ABB-BBB	
MECHANICAL ENGINEERING with MATERIALS ENGINEERING (MEng)	AAAAB	AAB-BBB	
NAVAL ARCHITECTURE & MARINE ENGINEERING (MEng)	AAAA	AAB-BBB	
NAVAL ARCHITECTURE & MARINE ENGINEERING (BEng Hons)	AAAB	ABB-BBB	
NAVAL ARCHITECTURE & HIGH PERFORMANCE MARINE VEHICLES (MEng)	AAAA	AAB-BBB	
NAVAL ARCHITECTURE & HIGH PERFORMANCE MARINE VEHICLES (BEng Hons)	AAAB	ABB-BBB	45
NAVAL ARCHITECTURE with OCEAN ENGINEERING (MEng)	AAAA	AAB-BBB	47
NAVAL ARCHITECTURE with OCEAN ENGINEERING (BEng Hons)	AAAB	ABB-BBB	

COURSE	HIGHERS	A LEVELS	PAGE
PHARMACY (MPharm)	AAAB	AAB-BBB	110
PHILOSOPHY, POLITICS & ECONOMICS (BA Hons)	AAAA	ABB-BBB	81
PHYSICS (MPhys)	AAAB/ABBB	ABB-BBB	111
PHYSICS (BSc Hons)	AABB/ABBB		
PHYSICS with ADVANCED RESEARCH (MPhys)	AA (Adv Highers)	A*AA	113
PHYSICS with TEACHING (BSc Hons)	AABB/ABBB	ABB-BBB	114
POLITICS & INTERNATIONAL RELATIONS <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	67
PRIMARY EDUCATION (BA Hons)	AAAA	ABB-BBB	82
PRODUCT DESIGN & INNOVATION (BSc Hons)	AAAB	ABB-BBB	48
PRODUCT DESIGN ENGINEERING (MEng)	AAAA	AAB-BBB	49
PRODUCT DESIGN ENGINEERING (BEng Hons)	AAAB	ABB-BBB	
PRODUCTION ENGINEERING & MANAGEMENT (MEng)	AAAA	AAB-BBB	50
PRODUCTION ENGINEERING & MANAGEMENT (BEng Hons)	AAAB	ABB-BBB	
PROSTHETICS & ORTHOTICS (BSc Hons)	AAAB	ABB-BBB	51
PSYCHOLOGY <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	69
PSYCHOLOGY & COUNSELLING BA (Hons)	AAAA	ABB-BBB	83
SOCIAL POLICY <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	70
SOCIAL WORK (BA Hons)	ABBB	ABB-BBB	85
SOFTWARE ENGINEERING (BSc Hons)	AAAB/ABBB	ABB-BBB	72
SPANISH <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	
SPORT <sup>‡</sup> (BA Hons)	AAAA	ABB-BBB	73
SPEECH & LANGUAGE PATHOLOGY (BSc Hons)	AAAB/ABBB	AAB-ABB	86
SPORT & PHYSICAL ACTIVITY (BSc Hons)	AAAB	ABB-BBB	88
SPORTS ENGINEERING (MEng)	AAAA	AAB-BBB	52
SPORTS ENGINEERING (BEng Hons)	AAAB	ABB-BBB	
TEACHING, CHEMISTRY with (MChem)	AABB/AAAC	AAA-ABB	89
TEACHING, MATHEMATICS with (BSc Hons)	AABB/ABBB	ABB-BBB	
TEACHING, PHYSICS with (BSc Hons)	AABB/ABBB	ABB-BBB	

<sup>†</sup> subject which can be studied within degrees in the Strathclyde Business School  
<sup>‡</sup> subject which can be studied within BA (Honours) in Humanities & Social Sciences

The University produces a set of leaflets describing each of its courses in greater detail. To request a leaflet or leaflets, please email: [uinqueries@strath.ac.uk](mailto:uinqueries@strath.ac.uk)

# T&CS

## Terms & Conditions

All students will be required as a condition to abide by and to submit to the procedures and rules of the University's Statutes, Ordinances, and Regulations as found in the University Calendar, as amended from time to time.

The University will use all reasonable endeavours to deliver courses in accordance with the descriptions set out in this Prospectus. Matters such as industrial action and the death or departure of staff may adversely affect the ability of the University to deliver courses in accordance with the descriptions. Also, the University has to manage its funds in a way which is efficient and cost-effective, in the context of the provision of a diverse range of courses to a large number of students.

The University therefore:

- a) reserves the right to make variations to the contents or methods of delivery of courses, to discontinue courses and to merge or combine courses, if such action is reasonably considered by the University in the context of its wider purposes. If the University discontinues any course, it will use its reasonable endeavours to provide a suitable alternative course.
- b) cannot accept responsibility, and expressly excludes liability, for damage to students' property, transfer of computer viruses to students' equipment, and changes to teaching arrangements and similar activities.

This Prospectus, published in February 2017, is for use by those interested in entering the University in the academic year beginning in September 2018. The contents of the Prospectus are as far as possible up-to-date and accurate at the date of publication. Changes are made from time to time and the University reserves the right to add, amend or withdraw courses and facilities, to restrict student numbers and to make any other alterations as it may deem necessary and desirable. The descriptions of courses in this Prospectus are intended as a useful guide to applicants and do not constitute the official regulations which are available in the current edition of the University Calendar.

A guide to the admission requirements for the University's degree courses is given in each course entry, but please consult the University website for the most up-to-date information.

The published entry requirements are the minimum required to be considered for entry. Applicants will be considered based on their potential through assessment of their personal statement, reference and academic performance. In some cases no decisions will be made until after the UCAS deadline of 15 January 2018 to enable applications to be assessed and considered on an equal and fair basis. It may be possible that you will hear before this date but in all cases, decisions will be communicated through UCAS.





University of  
**Strathclyde**  
Glasgow

# WE ARE THE UNIVERSITY OF STRATHCLYDE

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**POSTGRADUATE**  
PROSPECTUS **2017**

WE ARE  
THE PLACE  
OF USEFUL  
LEARNING

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# WE ARE THE UNIVERSITY OF STRATHCLYDE

**A leading international technological University, our reputation and influence is global. With a community of more than 22,000 students, studying at Strathclyde is a fantastic experience, where you will enjoy flexible, innovative learning and excellent facilities.**

Founded during the Enlightenment as a 'place of useful learning', we are renowned for our excellent teaching, world-class research and our strong links with industry, government and business. In addition to our exceptional industrial placements, scholarships and opportunities to study abroad, there is a host of clubs and societies to join, volunteering opportunities and membership of Scotland's largest students' union.

Our students follow in the footsteps of extraordinary people, whose work is having a major impact around the world. Some of our acclaimed former students include John Logie Baird – inventor of the world's first working television, James Blyth – who built the world's first electricity-producing wind turbine, and Henry Faulds the originator of fingerprint identification.

The Strathclyde Business School is among only a few in the world to be endorsed by all three international accrediting bodies and we are home to Scotland's largest Faculty of Engineering and the country's largest provider of teacher education. We are the only UK higher education institution involved in all four of the UK's Quantum Technology Hubs, which explore the properties of quantum mechanics and how they can be harnessed for use in technology.



# WE ARE GLASGOW

**There's never been a more exciting time to study in Glasgow and every year, thousands of students choose to study at the University of Strathclyde.**

Our campus sits in the heart of Glasgow, which has been hailed as one of the top 20 'Best of the World' destinations for 2016 by influential publication National Geographic Traveller.

Earning its reputation as one of the world's greatest, Glasgow was named as a must-visit destination by the New York Times, The Telegraph, The Guardian and Wanderlust and was voted the 'friendliest city in the world' in a Rough Guide poll. However, it's not just the people that make Glasgow great. Our students tell us that it's a brilliant city to live in, whether you enjoy shopping, eating out, going to world-class music and sporting events, or visiting museums and art galleries – there is something for everyone. It is consistently voted as the top place to shop in the UK, outside London. Home to the Hydro, the only UK venue of its scale, Glasgow is a UNESCO City of Music, hosting an average of 130 music events every week.

With almost 1,800 cafés and restaurants located around the city, it's no surprise that Lonely Planet describes Glasgow as "the best and most eclectic dining city in Europe".

The University of Strathclyde is located a short walk from the Merchant City, a lively cultural quarter packed with some of Glasgow's best-loved bars and restaurants as well as a vast array of shops, studios, galleries and music venues.



# WE ARE SCOTLAND

**Study in an ancient and industrious country that continues to have a big impact on the modern world. From the Enlightenment to the invention of the television, Scotland and the University of Strathclyde share a world-leading educational heritage.**

With Glasgow only a short journey away from the beautiful landscape of the Trossachs and the Highlands, Strathclyde students are perfectly positioned to explore everything that Scotland has on offer for fans of the great outdoors.

You can enjoy activities ranging from hill walking, snow sports, mountain biking and water sports to aerial assault courses and paintballing. Or you can visit Scotland's historic castles and monuments and explore the thriving arts and culture scene of the towns and cities.

Choosing to study in Scotland means you will graduate with a qualification that is recognised by employers around the world.



# FIRST-CLASS LEARNING

**The University has an international reputation for delivering academic excellence with impact for our students, for wider society, and for the benefit of the economy. Our teaching is shaped and informed by the ideas and insight presented in our research, lending it depth and sharpening its relevance.**

Our postgraduate courses are held in high regard by employers, and also provide an excellent platform for research. We produce graduates who are ready for successful careers, after gaining the expertise and professional grounding they need for their chosen profession. Access to company scholarships and close interaction with business and industry help to give our graduates a head start in their careers.

The University's Researcher Development Programme provides professional and personal development training. It offers a tailored suite of courses, events, workshops and resources to meet the development needs of postgraduate research students and research staff.



# WORLD-CLASS RESEARCH

**Research is of central importance in everything we do. It informs our teaching and helps us to make a difference to business, industry and society as a whole.**

Our strength and depth in research were demonstrated by the UK Research Excellence Framework (REF) outcomes, which saw Strathclyde placed in the top 20 UK universities for research excellence and intensity, and firmly positioned among the recognised leading research-led universities of the UK.

Our academic staff collaborate with leading higher education institutions and businesses around the globe to tackle the major research challenges of the 21st century. These include New York and Stanford Universities, Massachusetts Institute of Technology, Nanyang Technological University, Singapore, and Hong Kong University of Science and Technology and partnerships with international companies such as GlaxoSmithKline, AstraZeneca, Iberdrola, Boeing and Rolls-Royce. Partnerships in the public sector include the NHS and Strathclyde's joint leadership of the UK's National Physical Laboratory.

Within the Technology and Innovation Centre, academics, business, industry and the public sector are working in partnership to find solutions to challenges that matter in areas of economic importance including energy, health, future cities and manufacturing. The Centre houses £50 million of specialist, shared and flexible research equipment and facilities.





ENGINEERING

# WE ARE THE FACULTY OF ENGINEERING

**We are one of the largest, best-equipped engineering faculties in the UK and the largest in Scotland. Renowned internationally for our research, teaching quality and strong links with industry, we provide high-quality advanced training with an unrivalled portfolio of innovative, industrially-focused postgraduate taught courses and leading research programmes.**

Multimillion-pound investments by the Research Councils, Government and industry, including Rolls-Royce and British Energy, are testament to the quality and relevance of the Faculty's growing research portfolio.

Our recently-refurbished facilities give students access to state-of-the-art equipment and work spaces. Further investments have also been made in our other facilities, including the Advanced Forming Research Centre, the Power Networks Demonstration Centre and the Advanced Space Concepts Lab.

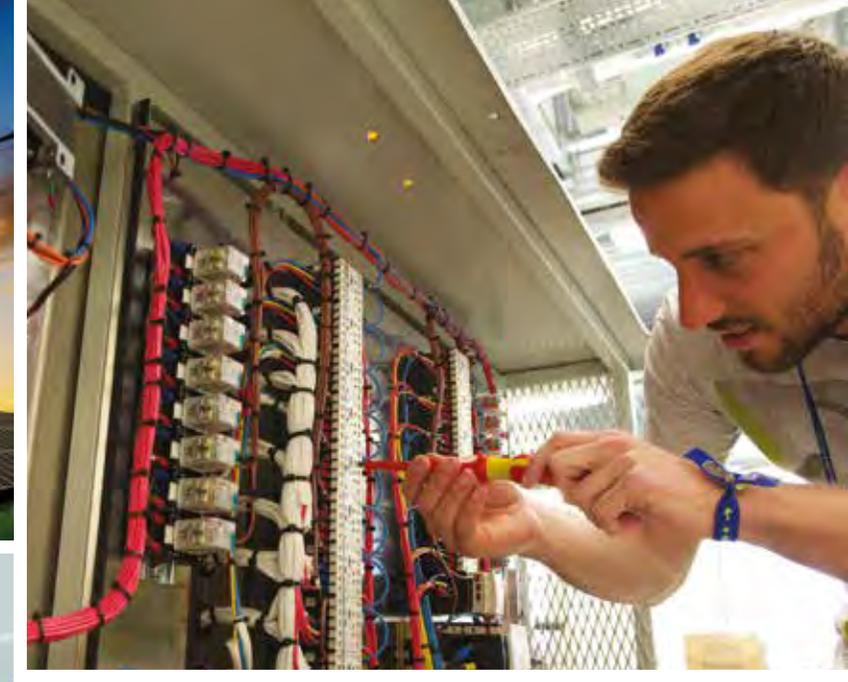
Our interdisciplinary research themes bring together expertise in Advanced Materials and Manufacture, Aerospace and Marine Technologies, Energy, Sustainability and the Environment, and Health Engineering.

These integrated themes are underpinned by additional core strengths in areas such as telecommunication technologies, control systems, signal and image processing, non-destructive testing and enabling engineering.

Internationalisation is a key strategic priority for us and through our collaborative links with overseas partners, we have a growing international community of students, researchers and staff from around 100 countries.

Our close connections with industry ensure that our degrees remain relevant to the needs of employers and provide students with opportunities to work in cross-disciplinary teams, solving real engineering problems.

**Contact**  
Engineering Faculty Office  
t: +44 (0)141 548 2749  
e: eng-enquiries@strath.ac.uk



Seven of our Engineering departments are ranked in **the top 10** for research in the UK



## Master by Research in Engineering

MRes

### Why study this programme at Strathclyde?

- Develop research skills in your chosen engineering field, with the potential to progress to an EngD or PhD
- Undertake an individual research project, either work-based or allied to one of the faculty research areas
- Enhance your career by upgrading your existing skills

### Course Structure

Students study 60 credits of taught classes and undertake a 120-credit supervised research project on a topic selected in consultation with course leaders.

#### Compulsory Classes

- Research Protocols for Science and Engineering
- Engineering Risk Management or Project Management
- Classes from within the Faculty of Engineering relevant to the chosen discipline

#### Course Duration

12 months full-time; 24 months part-time

#### Entry Requirements

First- or second-class Honours degree from a UK university, or equivalent overseas qualification. The course is principally aimed at graduates from an engineering or physical science discipline. However it is also suitable for employees of public and private sector companies who wish to upgrade their skills.

Applicants should include a personal statement detailing the engineering sector they are most interested in and an indication of the area of research they wish to pursue.

#### Funding

Funded studentships may be available. Please contact the Faculty Office for information.

#### Contact

Engineering Faculty Office  
t: +44 (0)141 548 2749  
e: eng-enquiries@strath.ac.uk

## Sustainable Engineering Programme

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Cross-disciplinary programme with input from industry
- Satisfy key requirements to attain Chartered Engineer status
- Develop sought-after understanding of sustainable approaches and practices

### Course Structure

- Instructional classes (including a Sustainability class taken by all students)
- Group project (on a topic related to environmental, social, or economic sustainability)
- Individual project

#### Step One: Select Your Specialist Theme

- Architecture and Ecology (Glasgow/Arizona)
- Chemical Processing
- Offshore Renewable Energy
- Renewable Energy Systems and the Environment

#### Step Two: Select Generic Classes

- Design Management
- Financial Engineering
- Project Management
- Risk Management
- Environmental Impact Assessment

You will take at least three generic classes which meet employers' requirements for comprehensive engineering skills and satisfy key requirements to attain Chartered Engineer status.

#### Step Three: Select Specialist Modules

You also take a number of classes relevant to your selected specialist theme (see pg 19) (three for the Postgraduate Certificate, up to five for the Postgraduate Diploma/MSc).

Successful completion of six instructional classes leads to the award of a Postgraduate Certificate.

#### Step Four: Complete a Group Project

You work within a group of students from different specialist themes to produce sustainable solutions for real-life industry problems. Site visits, field trips and regular progress reports to industry partners are an integral part of the process and you will develop valued skills in team-working, problem-solving, report writing and presentation.





## Eilidh Maclaren

### MSc Chemical Processing

I chose this course to develop new skills and enhance the engineering skills I gained in my undergraduate degree. Strathclyde is a world-class university and its strong industrial links contribute to the range of classes on offer.

I have worked on group projects on a variety of subjects with fellow students from many different backgrounds. I feel prepared for the workplace as working with different skill sets can be challenging, and the opportunity to learn how to make the most of everyone's abilities is a great asset. The confidence I have gained this year has enabled me to secure a job before graduation.

## Sustainable Engineering Programme continued

Successful completion of eight instructional classes and a group project leads to the award of a Postgraduate Diploma.

### Step Five: Complete an Individual Project

MSc students study a selected topic in depth and submit a thesis. Substantial industry input in the form of project ideas brings together engineering graduates and business representatives.

Successful completion of eight instructional modules, a group project and an individual project leads to the award of an MSc.

### Course Duration

**MSc:** 12 months full-time; 24 months part-time (minimum)

**PgCert/PgDip:** 9 months full-time; 18 months part-time

### Entry Requirements

First degree or other qualification equivalent to an Honours degree in a relevant engineering, technology or science discipline. Entry may be possible with other qualifications provided there is evidence of relevant experience and of the capacity for postgraduate study.

### Specialist Theme Classes and Contacts

#### Architecture and Ecology

- Ecology, Sustainability and the Built Environment
- Arcology
- Urban Theory
- Energy Resources and Policy

#### Contact

t: +44 (0)141 548 3069

e: contact-architecture@strath.ac.uk

#### Chemical Processing

- Multiphase Processing
- Process Design Principles
- Safety Management Practices
- Petrochemical Engineering
- Membrane Technology
- Fuel Cells
- Emerging Technologies
- Molecular Simulation in Chemical Engineering
- Nuclear Engineering
- Model-based Process Control

#### Contact

t: +44 (0)141 548 4131

e: chemeng-pgt-admissions@strath.ac.uk

#### Offshore Renewable Energy

- Energy Resources and Policy
- Electrical Power Systems
- Renewable Marine Energy Systems
- Finite Element Analysis of Floating Structures

#### Contact

t: +44 (0)141 548 4094

e: naome-pg@strath.ac.uk

#### Renewable Energy Systems and the Environment

- Energy Resources and Policy
- Energy Systems Analysis
- Electrical Power Systems
- Energy Modelling and Monitoring

#### Contact

t: +44 (0)141 548 2846

e: mae-pg@strath.ac.uk

## Ignacio Alvarez

### MSc Offshore Renewable Energy

I chose to study in the Department of Naval Architecture, Ocean & Marine Engineering because of its excellent facilities and the reputation of the staff within the offshore renewable energy sector. I cannot emphasise enough how friendly, vibrant and international the University environment is.

Throughout the programme I have been challenged, and rewarded by many interdisciplinary and collaborative activities. The knowledge, communication skills and expertise I have gained enabled me to secure a graduate position as an energy engineer.



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# Department of Architecture

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## RESEARCH DEGREES

MRes, MPhil, PhD

### Contact for Research Degrees

t: +44 (0)141 548 3097

e: contact-architecture@strath.ac.uk

## TAUGHT COURSES

Advanced Architectural Design

Architectural Design (International)

Architectural Design for the Conservation of Built Heritage

Urban Design

Sustainable Engineering: Architecture and Ecology (part of Sustainable Engineering Programme, see pg 19)

### Contact for Taught Courses

t: +44 (0)141 548 4219

e: contact-architecture@strath.ac.uk

## Research Profile

Our research in architecture and the built environment is multifaceted in nature and is at the forefront in higher education in Scotland and the UK. The Research Excellence Framework results revealed that more than 40% of our research is rated as world-class. It builds on our department's pioneering studies of the late 1970s through the work of the Building Performance Research Unit and Architecture and Building Aids Computer Unit.

Our research groups continue to evolve, reflecting emerging issues in architectural design, cultural enquiry, sustainability and urbanism, investigating how design innovation and technology can conserve the environment and transform communities and cities around the world.

Research in architecture and urban design is closely linked to international and national targets for reducing social and environmental impacts while promoting energy and resource efficiencies to improve the quality of life for all.

### Centre for Doctoral Training in Built Environment Futures

We recently launched the Built Environment Futures (bE Futures) Centre for Doctoral Training. This is a collaborative venture co-founded by the Departments of Architecture and Mechanical & Aerospace Engineering, and the Institute for Future Cities. It supports a wide range of innovative multidisciplinary research projects focused on the built environment, aligned with industry and government agencies and engaged with local and global communities.

## Research Groups

### Sustainability and the Built Environment Core Area

- Architectural Design and Conservation – our research focuses on the challenges of conserving built heritage while allowing changes to adapt historic buildings to contemporary uses.
- Innovation in Creative and Construction Industries – we engage in research related to the management of the design and construction process including the digital design process, building information modelling, and construction management.
- Sustainable Design and Technology– we look at design principles and processes such as advances in computer-aided design and manufacturing, and the development of innovative materials and construction of low-carbon buildings.

### Urbanism and Global Cities Core Area

- Architecture and Urbanism of the Global South – we conduct research relevant to the urban conditions of cities in the global south, exploring aspects of globalisation, authenticity, representation, conservation, and sustainable urbanism.
- Cultural and Historical Studies– we research the political, economic and social history of architecture and cities, exploring why and how buildings are produced and used.
- Urban Design – our research focuses on the city form, its structure and development in time, the impact on human beings and activities, performance and processes of planning, and formal and informal forms of community inclusion.

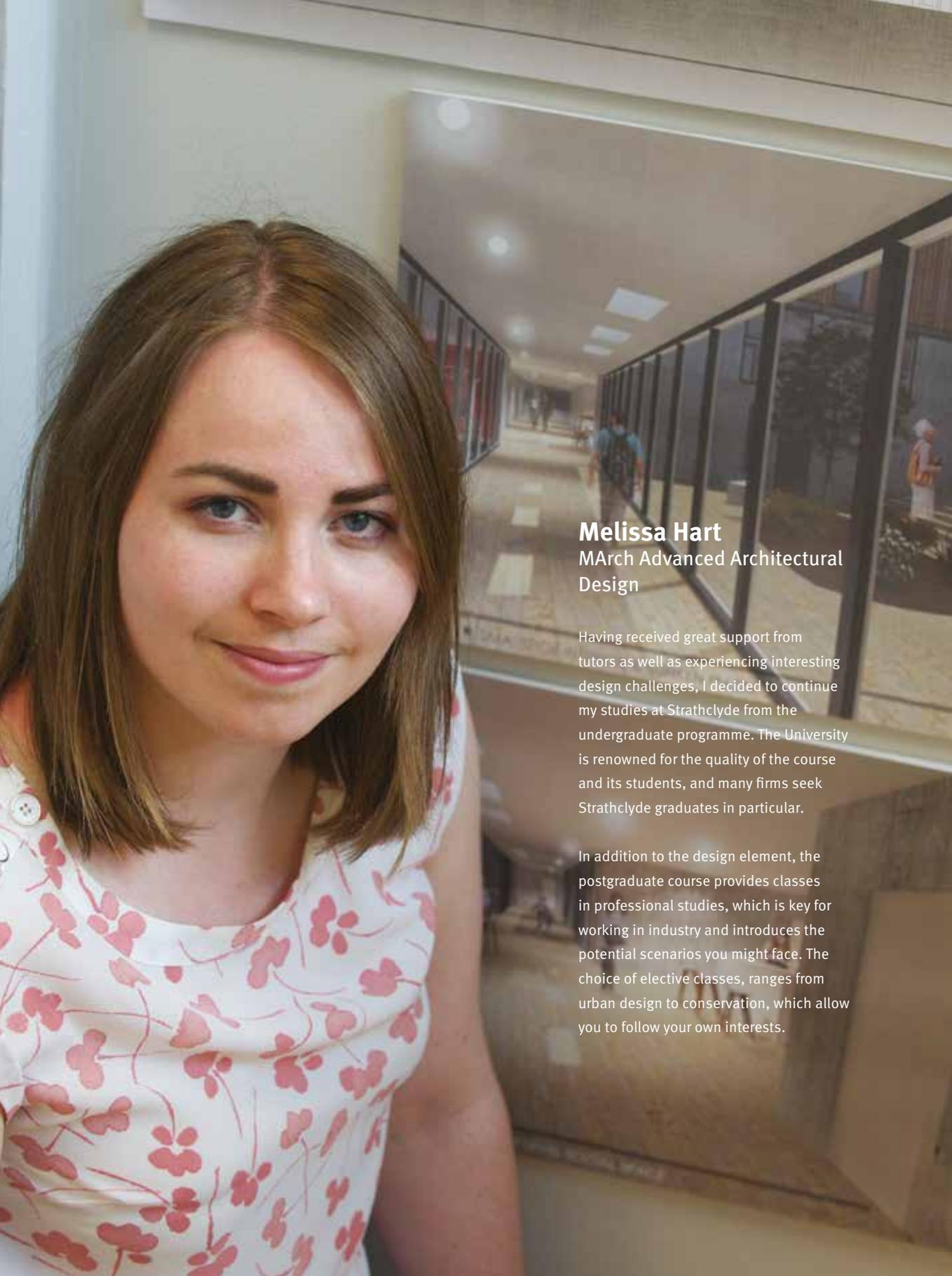
### Cross-cutting Theme on Built Environment Education and Pedagogy

This theme spans both core areas. It involves establishing links between education, critical thinking, professional practice and civic engagement.

### Entry Requirements for Research Degrees

First- or upper second-class Honours degree, or equivalent overseas qualification, in any discipline.





**Melissa Hart**  
MArch Advanced Architectural Design

Having received great support from tutors as well as experiencing interesting design challenges, I decided to continue my studies at Strathclyde from the undergraduate programme. The University is renowned for the quality of the course and its students, and many firms seek Strathclyde graduates in particular.

In addition to the design element, the postgraduate course provides classes in professional studies, which is key for working in industry and introduces the potential scenarios you might face. The choice of elective classes, ranges from urban design to conservation, which allow you to follow your own interests.

## Advanced Architectural Design

MArch/PgDip (ARB and RIBA Part 2 Course)

### Why study this programme at Strathclyde?

- Diploma is final stage to Part 2 professional qualification
- Option to convert Diploma into MArch
- ARB/RIBA Part 2 exemption
- Develop critical, formal and technical architectural ability

### Course Structure

The course reviews current theoretical approaches to architectural and urban design, assessing and exemplifying their relevance in existing and proposed contexts. You will:

- undertake a comprehensive architectural and/or urban design project
- demonstrate awareness of management procedures relevant to design practice
- carry out research and critical analysis of a topic to produce a dissertation
- carry out a detailed examination and resolution of an issue or issues of particular architectural and/or urban significance

The course comprises studio design work, lectures, a dissertation, special projects and workshops. Taught classes are under the broad topics of Culture and the City, Society, Environment and Technology and include cultural studies, an international workshop, professional studies, sustainability, environmental assessment, culture and behaviour, the history and theory of urbanism and conservation and building information modelling. Studies are predominantly project-based and demand a high level of design ability.

### Course Duration

**MArch:** 24 months full-time

**PgDip:** 21 months full-time

Students entering Year 2 of the programme:

**MArch:** 12 months full-time

**PgDip:** 9 months full-time

### Entry Requirements

First- or second-class Honours degree in Architecture from a UK or EU university.

An academic portfolio will be required, containing all relevant design work from your previous course of study.

## Architectural Design (International)

MArch/PgDip

### Why study this programme at Strathclyde?

- Develop skills in advanced design, analysis and critique
- Meets RIBA Part 2 educational criteria
- Work in fully-networked design studios
- Develop projects related to your own interests in contemporary architecture

### Course Structure

This two-year course is for international students. It runs parallel to the MArch/PgDip in Advanced Architectural Design and shares the same curriculum.

The first year is divided equally between the design studio and a set of taught classes including cultural studies and an elective option. The studio projects are designed to develop the ability to deliver a considerable degree of architectural resolution and technical competence. In cultural studies, students develop academic and intellectual rigour in an area of personal study into a dissertation, which can be the foundation for further work in the second year.

Year 2 is centred on a series of workshops, studios and taught classes designed to engage with a particular architectural, environmental and cultural theme set for the year. This requires students to take a stance on contemporary architectural issues and through this medium pursue an agenda that reflects their own interests and creative ambitions. Taught classes are under the broad topics of Culture and the City, Society, Environment and Technology and include cultural studies, an international workshop, professional studies, sustainability, environmental assessment, culture and behaviour, the history and theory of urbanism and conservation, and building information modelling.

### Course Duration

**MArch:** 24 months full-time

**PgDip:** 21 months full-time

### Entry Requirements

First- or second-class Honours degree in architecture, or equivalent.

An academic portfolio will be required, containing all relevant design work from the applicant's previous course of study.

## Architectural Design for the Conservation of Built Heritage

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Fully recognised by the Institute of Historic Building Conservation
- Design-orientated and research-based course
- Collaborate with practice and research partners
- Benefit from guest lectures from industry partners

### Course Structure

The course is delivered through lectures, workshops, studio-based and seminar-led learning by staff and visiting experts from the UK and overseas who will also act as critics in students presentations and symposia. Architectural critique, discussion and debate are fundamental parts of the course

All full-time students take instructional classes and a design project in the first two semesters. MSc students also complete a dissertation project. Compulsory taught classes in theory, history, survey, investigations, legislation, materials and structures are delivered as intensive seminars, making them accessible to part-time students and for Continuing Professional Development (CPD).

### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 18 months part-time

**PgCert:** 5 months full-time; 9 months part-time

Individual classes from the programme are offered as Open Access modules, which can be taken as stand-alone CPD options or gradually built towards a qualification. Open Access students may eventually transfer on to a part-time MSc or PgDip programme to complete their studies (subject to a maximum period of time).

### Entry Requirements

First- or second-class Honours degree (or equivalent) in Architecture, Structural or Civil Engineering. Consideration will also be given to candidates with other relevant professional qualifications in a discipline related to the built environment and/or professional experience.

Evidence of motivation will be sought and, from studio-based first qualification holders, a portfolio of project work may be required.

## Urban Design

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Royal Town Planning Institute Specialist Course accreditation
- Address issues relating to the European metropolis through a major design topic
- Innovative and collaborative learning dimension

### Course Structure

The course is delivered through studio work, lectures and seminars. In addition, MSc students carry out a piece of research, following their diploma work. The studio involves work on the urban design of a complex urban area, including the levels of the entire city, the neighbourhood and the individual public space.

Lectures and seminars, delivered as compulsory and optional taught classes, normally run as intensive seminars to allow for flexible booking by CPD and part-time students. They cover the following topics, relevant to the studio's design project:

- Urban Typologies – Built Form and Open Space
- Development Process
- Urban Design Policy and Practice
- Transportation and Infrastructure
- Urban Ecosystems and Landscape
- History and Theory of the City

Successful completion of studio work and classes leads to the award of a Postgraduate Diploma; the completion of an additional research element leads to the award of the MSc in Urban Design, which is accredited as a Specialist Course by the Royal Town Planning Institute.

### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 18 months part-time

**PgCert:** 5 months full-time; 9 months part-time (duration will depend on classes selected)

### Entry Requirements

An Honours degree, or equivalent, in a discipline related to the built environment and the city (eg architecture, planning, engineering, landscape architecture, sociology, history). Candidates with alternative professional experience may also be considered.

## Department of Biomedical Engineering

### RESEARCH DEGREES

MPhil, PhD (Biomedical Engineering)

MRes Biomedical Engineering

EngD Medical Devices

### TAUGHT COURSES

Biomedical Engineering

Medical Devices

Prosthetics and Orthotics

Rehabilitation Studies in Prosthetics and/or Orthotics

### Contact

t: +44 (0)141 548 3438

e: biomedeng-pg-admissions@strath.ac.uk

The Department of Biomedical Engineering provides high-quality research and postgraduate training in bioengineering that gives our graduates the skills and knowledge to provide unique and innovative technological solutions to modern-day health problems. As a training centre for prosthetics and orthotics, we also provide courses specifically tailored for advanced training for professionals and those interested in this area.

External research is supported by funding from the research councils, the Scottish Government, charities, and commerce and industry within the UK, EU and internationally in countries such as the US and Japan.

### Biomedical Engineering

Bioengineering takes a multidisciplinary approach to solving problems in medicine and biology, based on the application of advances in science, engineering and technology. A major focus is to improve the quality of life of people with medical conditions that restrict independent living and integration within the community. The Department is a key centre for the development of research projects in biomedical engineering and in the development and testing of medical devices.

We host the Centre for Doctoral Training in Medical Devices and Health Technologies, the Strathclyde Institute of Medical Devices and the Centre for Excellence in Rehabilitation Research

### Research Groups

#### Rehabilitation Engineering

Rehabilitation Engineering applies scientific and engineering principles to research related to the musculo-skeletal system. The main areas of research within the group are Biomechanics and Medical Robotics, Prosthetics and Orthotics, and Motor Control and Neuroprosthetics.

### Medical Diagnostic Devices and Instrumentation

Research activities range from minimally-invasive patient monitoring or rapid point of care (POC) diagnosis to the development of new innovative interventional technologies including heart valves, life support systems and implantable cardiovascular devices. The main areas of research are:

- Minimally-invasive Diagnostics
- Sensors for Cell and Tissue Engineering/Implanted Devices
- POC Patient Monitors

### Cell, Tissue and Organ Engineering

Research within the group looks at cellular interactions, cell and tissue engineering and the development of artificial organs. The main areas of research are:

- Cellular Interactions with Material/Chemicals
- Cell/Tissue Engineering
- Hybrid Artificial Organs
- Modelling of Artificial Organs
- Microbial Decontamination and Sterilisation

### National Centre for Prosthetics and Orthotics

The National Centre for Prosthetics and Orthotics (NCPO) has a wide network of collaborative links with departments across the Faculty of Engineering and the Faculty of Humanities & Social Sciences, and also with clinical and research facilities across the UK and overseas. Our purpose-built facilities include fully-equipped workshops and clinic rooms.

Within the Department of Biomedical Engineering, NCPO has an active and expanding research portfolio of fundamental and applied research projects. Research activities are grouped under the following main themes:

- Clinical Activities
- Development and Evaluation of Clinical Techniques
- Evaluation of Prosthetic and Orthotic Interventions
- Development and Evaluation of Outcome Measures
- Quality of Life Products
- Clinical Evaluation Tools
- Components
- Technologies
- Clinical Simulation for Prescription
- Shape Capture

## Scholarship Programmes

### International Excellence Awards

The Department offers four prestigious competitive scholarships for full-time international applicants to the MSc and MRes in Biomedical Engineering. Recipients will benefit from an award of up to £4,000. Successful recipients will be notified at the beginning of term.

### The China-Scotland Friendship Award

The Department will offer this award worth £4,000 to a Chinese applicant of outstanding ability applying for the MSc in Biomedical Engineering. The successful recipient will be notified at the beginning of term.

### Biomedical Engineering Malaysia Award

The Department will offer this award worth £4,000 to a Malaysian applicant of outstanding ability applying for the MSc in Biomedical Engineering. The successful recipient will be notified at the beginning of term.

### Biomedical Engineering Celebration Awards for India

These awards are open to well-qualified applicants from India joining the one-year full-time MSc in Biomedical Engineering. The value of each award is £6,000 which will be deducted from the fee on registration. Applicants should apply by email (see below) by 26 May 2017, including a short paragraph on why they should receive an award. Applicants will be advised of the outcome in June 2017.

### Contact for Scholarship Information

e: biomedeng-pg-admissions@strath.ac.uk

## Biomedical Engineering

MRes

### Why study this programme at Strathclyde?

- Conversion course for graduates interested in developing a research career
- Benefit from our collaborative clinically-driven research output, training and knowledge transfer
- Undertake a research/development project

### Course Structure

#### Compulsory Classes

- Engineering Science OR Medical Science
- Professional Studies in Bioengineering
- Research Methodology

#### Optional Classes (minimum of two)

- Biomedical Electronics
- Biomedical Instrumentation
- Introduction to Biomechanics
- Clinical and Sports Biomechanics
- Tissue Mechanics
- Biomaterials and Biocompatibility
- Regenerative Medicine and Tissue Engineering
- Cardiovascular Devices
- Prosthetics and Orthotics
- Bio-signal Processing and Analysis
- Haemodynamics for Engineers
- Numerical Modelling in Biomedical Engineering
- Medical Robotics

#### Research Project

Students also undertake a research/development project, chosen from a pool of relevant industrial or clinical projects, and submit a thesis.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in engineering, physical science, life science, medicine, or a profession allied to medicine.

## Medical Devices

EngD/MSc

### Why study this programme at Strathclyde?

- Study in the Centre for Doctoral Training in Medical Devices and Health Technologies with input from clinical advisers from the NHS and elsewhere
- Explore issues in technology transfer and fundraising
- Gain practical experience in the life sciences techniques

### Course Structure

#### Compulsory Classes

- Medical Science
- Research Methodology
- Professional Studies in Bioengineering
- Biomedical Electronics
- Biomedical Instrumentation
- Advanced Techniques in Biomedical Research 1 & 2
- Introductory Pharmacology

#### Optional Classes

- Introduction to Biomechanics
- Clinical and Sports Biomechanics
- Tissue Mechanics
- Biomaterials and Biocompatibility
- Regenerative Medicine and Tissue Engineering
- Cardiovascular Devices
- Prosthetics and Orthotics
- Bio-signal Processing and Analysis
- *In Vivo* Biology
- Drug Discovery
- Toxicological Analysis
- Haemodynamics for Engineers
- Numerical Modelling in Biomedical Engineering
- Medical Robotics

#### Research Project

EngD students undertake a research project during Years 2 to 4. MSc students undertake a shorter project.

#### Course Duration

EngD: four years full-time

MSc: 12 months full-time; 24 months part-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in engineering or physical sciences.

#### Funding

A number of studentships are available via an EPSRC training package.

## Biomedical Engineering

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Accredited by the Institute of Physics and Engineering in Medicine
- Opportunity to visit local clinical centres and attend seminars by visiting experts from the UK and overseas
- Contribute to solutions for clinically-relevant problems

### Course Structure

#### Compulsory Classes

- Engineering Science OR Medical Science
- Professional Studies in Bioengineering
- Anatomy and Physiology (for students taking Engineering Science but who do not have the prerequisite background in Anatomy and Physiology)
- Biomedical Electronics
- Biomedical Instrumentation
- Research Methodology
- Project

#### Optional Classes (four for PgDip; six for MSc)

- Anatomy and Physiology
- Clinical and Sports Biomechanics
- Tissue Mechanics
- Introduction to Biomechanics
- Bio-signal Processing and Analysis
- Biomaterials and Biocompatibility
- Prosthetics and Orthotics
- Cardiovascular Devices
- Regenerative Medicine
- Haemodynamics for Engineers
- Numerical Modelling in Biomedical Engineering
- Medical Robotics

#### Research Project

Students also undertake a research/development project.

#### Course Duration

MSc: 12 months full-time; 24 months part-time

PgDip: 9 months full-time; 21 months part-time

#### Entry Requirements

MSc: First- or second-class Honours degree, or overseas equivalent, in engineering, physical science, life science, medicine, or a profession allied to medicine.

PgDip: Normally a first degree, but other applicants will be considered.



## Prosthetics and Orthotics

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Study in the internationally-recognised National Centre for Prosthetics and Orthotics
- Develop your career as a health professional
- Experience laboratory demonstrations, practical exercises and clinical visits

### Course Structure

#### Compulsory Classes

- Engineering Science OR Medical Science
- Professional Studies in Biomedical Engineering
- Research Methodology
- Disability and Societal Effects

#### Optional Classes

- Introduction to Biomechanics
- Regenerative Medicine
- Tissue Mechanics
- Clinical and Sports Biomechanics
- Bio-signal Processing and Analysis
- Biomaterials and Biocompatibility
- Cardiovascular Devices
- Haemodynamics for Engineers
- Numerical Modelling in Biomedical Engineering
- Medical Robotics

#### Research Project

Students also undertake a research/development project.

#### Course Duration

MSc: 12 months full-time; 24 months part-time

PgDip: 9 months full-time; 21 months part-time

#### Entry Requirements

MSc: First- or second-class Honours degree, or overseas equivalent, in prosthetics and orthotics.

PgDip: Normally a first degree, but other applicants will be considered.

## Rehabilitation Studies in Prosthetics and/or Orthotics

MSc/PgDip/PgCert (part-time)

### Why study this programme at Strathclyde?

- Suitable for professionals working in prosthetics, orthotics, therapy, surgery or associated disciplines
- Study by distance learning at your own pace
- Use your healthcare-focused research skills to plan and deliver a work-based research project

### Course Structure

- Postgraduate Certificate – three Optional and Restricted classes
- Postgraduate Diploma – six from the list of Optional and Restricted classes
- MSc – classes in Research Methodology and Data Analysis, research project and dissertation

#### Optional Classes

- Clinical Governance
- Orthotic Studies\*
- Prosthetic Studies\*
- Introductory Biomechanics
- Lower Limb Prosthetic Biomechanics
- Lower Limb Orthotic Biomechanics
- Clinical Gait Analysis

\* not available to Prosthetists or Orthotists

Restricted Classes (for professional Prosthetists/Orthotists only)

- Advanced Prosthetic Science
- Advanced Orthotic Science

#### Course Duration

MSc: 36 months part-time

PgDip: 24 months part-time

PgCert: 12 months part-time

#### Entry Requirements

A university degree or another acceptable academic or professional qualification.

The content of some courses may require a basic knowledge of trigonometry and the ability to handle simple algebraic equations.

# Department of Chemical and Process Engineering

## RESEARCH DEGREES

MRes, MPhil, PhD

### Contact for Research Degrees

t: +44 (0)141 548 5319

e: chemeng-pg-admissions@strath.ac.uk

## TAUGHT COURSES

### Full-time Courses

Advanced Chemical and Process Engineering

Oil and Gas Innovation

Sustainable Engineering: Chemical Processing (part of Sustainable Engineering Programme, see pg 19)

### Contact for Full-time Courses

t: +44 (0)141 548 5307

e: chemeng-pgt-admissions@strath.ac.uk

### Part-time Distance Learning

Process Technology and Management

### Contact for Part-time Distance Learning

t: +44 (0)141 548 2148

e: chemeng-dl-admissions@strath.ac.uk

Research in the Department of Chemical and Process Engineering spans both science and engineering. It applies advances in science and mathematics to develop solutions to challenges faced by industry and society, such as manufacturing medicines, delivering clean water and providing renewable energy. We have strong links with industry partners and other engineering and science departments.

## Research Areas

### Nanostructured Materials

We design, develop and manufacture nanostructured materials that can be used to address problems of global significance. Key areas of research include the development of novel materials (eg bio-inspired nano-materials, carbon aerogels, and metal organic frameworks) and processes related to carbon capture, energy generation and storage, water purification and drug delivery. Specific research areas include:

- development of novel sorbents to remove pollutants from process and municipal water
- green manufacturing of silica nanoparticles for biomedical applications
- aggregation and deposition mechanisms of asphaltenes for enhancing crude oil production

### Process Development and Monitoring

We develop, design, and optimise processes to meet the challenges faced by industry and society, often using new technologies (eg microwave-assisted synthesis, manufacturing with light, and sonocrystallisation) and materials (eg metal organic frameworks). Projects include the continuous manufacture of pharmaceuticals and water treatment. We also develop novel methods to monitor processes to improve their control, product quality, and operating efficiency. Active areas of interest include:

- process analytical technologies
- flame imaging diagnostics
- diode laser adsorption and fluorescence spectroscopy

### Multi-scale Simulation and Theory

We develop, apply and analyse models for the properties of materials and behaviour of processes in order to aid in the design and optimisation of industrial processes. These models, which can cover a wide range of time and length scales, from molecular to colloidal to process scales and beyond, offer a deeper understanding of systems to allow their design and control. Areas of special interest include:

- equilibrium and non-equilibrium molecular dynamics
- materials modelling, including solution thermodynamics
- process modelling
- chemical kinetics
- advanced Monte Carlo simulation

### Research Environment

Our research students come from all over the world to participate in an active research programme. A number of studentships are available for well-qualified applicants.

The Department has access to ARCHIE-WeSt, West of Scotland's regional supercomputer centre based at Strathclyde, the Advanced Materials Research Laboratory and facilities of the Centre for Continuous Manufacture and Crystallisation. In addition research and experimental facilities include:

- thermogravimetric analysis
- differential scanning calorimetry
- high isostatic presses
- static and dynamic light scattering
- optical microscopy and image analysis
- gas chromatography, gas adsorption and gas separation
- facilities for the large-scale production of hollow polymer fibres
- high-temperature furnaces
- rheometer and high-pressure viscometer





## Aditi Mukhopadhyay Advanced Chemical and Process Engineering

The enjoyable experience of my undergraduate degree at Strathclyde made the University my first choice to study for a Masters degree.

The course is demanding, but rewarding. Classes ranging from detailed design to risk management have enabled me to experience a broad variety of areas that can be expected in the engineering world. Aspiring engineers gain essential transferable skills such as problem-solving, organisation and research.

Strathclyde has students from around the world, with varying experiences, which makes group assignments interesting and I have studied and become friends with people from all walks of life.

## Advanced Chemical and Process Engineering

MSc/PgDip/PgCert (full-time)

### Why study this programme at Strathclyde?

- Develop your career in the oil, gas, process and chemical industries
- Meets accreditation requirements for the Institute of Chemical Engineers
- Gain experience of best industry practice

### Course Structure

#### Chemical Engineering Classes

- Emerging Technologies
- Safety Management Practices
- Programming and Optimisation
- Process Design Principles
- Advanced Process Design
- Petrochemical Engineering
- Frontiers of Chemical Engineering
- Modern Methods of Process Measurement
- Nuclear Engineering
- Molecular Simulation in Chemical Engineering
- Model-based Process Control

#### Multidisciplinary Skills Classes

- Project Management
- Risk Management
- Environmental Assessment

#### Group Project

You will work within a group of students to provide a solution for real-life industrial problems. This will involve researching industrial data and providing progress reports in a consultancy brief format. You will develop valued skills in teamworking, problem-solving, report writing and communication.

#### Research Project

MSc students undertake an individual research project to address cutting-edge chemical engineering challenges.

#### Course Duration

MSc: 12 months full-time

PgDip: 9 months full-time

PgCert: 6 months full-time

#### Entry Requirements

An Honours degree, or overseas equivalent, in a relevant engineering, technology or science discipline. Entry may be possible with other qualifications provided there is evidence of relevant experience and the ability to study at an advanced level.

## Oil and Gas Innovation

MSc/PgCert (full-time)

### Why study this programme at Strathclyde?

- Develop technical knowledge and experience of the oil and gas industries
- Gain an understanding of business and innovation challenges in the oil and gas sector
- Undertake an industry-based oil and gas-related project

### Course Structure

The course is delivered in collaboration between the Oil and Gas Innovation Centre and Scottish universities (Aberdeen, Heriot Watt, Robert Gordon, St Andrews and Strathclyde). It is available by full-time study only.

The classes Commercialising Innovation, Business Essentials for Innovators and Product Development will be delivered partially via a Virtual Learning Environment. The compulsory project can be carried out at the employer's site. The taught element of the programme may be delivered at other university campuses or at independent work sites.

#### Compulsory Classes

- Commercialising Innovation\*
- Business Essentials for Innovators\*\*
- Safety and Asset Integrity Management
- Product Development\*\*
- Project Scoping
- Oil and Gas Project

\* delivered at Aberdeen University

\*\* offered to students across all participating universities

#### Research Project

All students take part in a research project to explore a practical problem related to the oil and gas sector.

#### Course Duration

MSc: 12 months full-time

PgCert: 6 months full-time

#### Entry Requirements

Second-class Honours degree, or overseas equivalent, in a relevant engineering, technology or science discipline. Entry may be possible with other qualifications provided there is evidence of relevant experience and the ability to study at an advanced level.

## Process Technology and Management

MSc/PgDip/PgCert (part-time distance learning)

### Why study this programme at Strathclyde?

- Accredited by the Institution of Chemical Engineers
- A project and work-based approach is supported by online tutorials in which students and tutors participate
- Opportunity to choose classes to meet your own learning objectives

### Course Structure

#### Technical Classes

- Process Design Principles
- Advanced Process Design
- Programming and Optimisation
- Safety Management Practices

#### Management Classes

- Project Management
- Understanding Financial Information
- Business and Technology Strategy
- Managing People

#### Optional Classes (four to be chosen)

- Petrochemical Engineering
- Environmental Engineering and Management
- Multi-phase Processing
- Process Control strategies
- Laboratory Management
- Emerging Technologies
- Membrane Technology
- Management of Technical Innovation

#### Individual Project

You explore a technical issue and a business case within your workplace.

To cover the same scope of subjects on a full-time basis you should consider the MSc Advanced Chemical and Process Engineering (pg 33) or MSc Chemical Processing (pg 19).

### Course Duration

**MSc:** 36 months part-time

**PgDip:** 24 months part-time

**PgCert:** 12 months part-time

### Entry Requirements

Second-class Honours degree, or overseas equivalent, in a relevant engineering, technology or science discipline. Entry may be possible with other qualifications provided there is evidence of relevant experience and the ability to study at an advanced level.

## Department of Civil and Environmental Engineering

### RESEARCH DEGREES

MPhil, PhD

MRes Geoenvironmental Engineering

MRes Integrated Pollution Prevention and Control

### Contact for Research Degrees

t: +44 (0)141 548 2827

e: contact-civeng@strath.ac.uk

### TAUGHT COURSES

Civil Engineering with Optional Specialist Streams

Civil Engineering with Industrial Placement

Environmental Engineering

Environmental Entrepreneurship

Environmental Health Sciences

Hydrogeology

Sustainability and Environmental Studies

### Contact for Taught Courses

t: +44 (0)141 548 3200

e: civeng-pgt@strath.ac.uk

### Flexible Learning/Open Access/Continuing Professional Development

**Flexible Learning:** MSc courses in Environmental Engineering and Hydrogeology are available through part-time, online distance learning over 36 months, offering students a flexible learning mode of study

**Open Access:** UK-based students can take individual classes for Continuing Professional Development. Those who complete single modules successfully may have the opportunity to progress towards a Postgraduate Certificate, Postgraduate Diploma or MSc. UK-based students have up to five years to complete an MSc via Open Access.

### Contact for Flexible Learning

t: +44 (0)141 548 3251

e: civeng-flexstudy@strath.ac.uk

The Department of Civil and Environmental Engineering has a unique combination of multidisciplinary expertise, reflected in its portfolio of Masters courses, dynamic PhD programmes and internationally-renowned research. The Department combines the strengths of civil engineering, environmental health, sustainability and environmental studies, providing the highest quality professional training, linking the built environment with the natural environment.

The Department holds an Athena SWAN silver award – the only engineering department in Scotland to hold a silver award. The award recognises its “commitment to advancing women’s careers in Science, Technology, Engineering, Mathematics and Medicine”.

The Department’s research groups support a wide range of international research collaborations including recent activity in China, Malawi, Kenya, Swaziland, Thailand, Brazil, the USA and Canada. In addition, research is underpinned by strong links with industry including high-profile visiting professors, an active industrial advisory board and a varied seminar series which includes speakers from industry.

### Research Areas

Our research and knowledge exchange activities are organised under three broad research themes:

#### Engineering Geosciences and Geomechanics

Researchers in the group lead a number of national and international research consortia. Current research areas include ground barrier technologies, advanced materials science and applications, faults and fluid flow, hydro-mechanical behaviours of geomaterials, industrial challenges and non-intrusive geo-physical ground investigation

#### Environment

The Environment group brings together multiple scientific disciplines to understand and manage environmental issues. Current research areas include environmental assessment, environmental health, environmental science and engineering, integrated water resource management, international development and modelling travel behaviour.

#### Infrastructure

The group is involved in cutting-edge research covering a wide range of topics, including the design of sustainable infrastructure systems, durability of concrete structures, wind energy structures, water distribution systems, urban drainage systems and fire resistant steel structures.

## Scholarship Programmes

### Research Scholarships PhD Studentships

Each year, the Department has a limited number of fully-funded PhD scholarships available to first-class applicants. Prospective students who hold (or expect to hold) the equivalent of a first-class Honours degree or an MSc with Distinction are encouraged to make an informal expression of interest between November and January.

### MRes (Masters by Research) Studentships

In partnership with industry, the Department provides a limited number of scholarships for selected MRes projects. These scholarships cover UK/EU fees plus a small stipend payment and are awarded on the basis of candidate merit and relevance of the research to the partner's core business areas. Available projects will be advertised on our website in August.

### Scholarships for Taught Courses

#### MSc Scholarships

Holders of a first-class Honours degree or equivalent overseas qualification) are eligible to apply.

- Engineering Excellence Scholarships – (self-funded, international (non-EU) fee-paying students with excellent academic qualifications may be eligible for a Faculty of Engineering Excellence Scholarship towards their tuition fees of up to £3,500 for the first year of their course)
- The Dean's Excellence Awards for India (£4,000)
- Commonwealth Shared Scholarship Scheme
- Commonwealth Distance Learning Scholarships MSc Hydrogeology (full tuition fees and travel)
- Pakistan 50th Anniversary Fund Scholarship
- Santander Scholarship (£5,000 towards tuition fees for students from Latin America and the USA)
- University of Strathclyde International Scholarships (between £4,000 and £6,000) towards tuition fees

### Postgraduate Funding: Student Awards Agency for Scotland

Scottish and EU postgraduate applicants can apply to the Student Awards Agency for Scotland ([www.saas.gov.uk](http://www.saas.gov.uk)) for a tuition fee loan.

### RUK Scholarship

£3,000 for a high-calibre student from England, Wales or Northern Ireland (RUK) who wishes to pursue their MSc studies in Scotland.

### Contact for Scholarship Information

t: +44 (0)141 548 3200  
e: [civeng-pgt@strath.ac.uk](mailto:civeng-pgt@strath.ac.uk)

## MRes Programmes in Civil and Environmental Engineering

### Why study this programme at Strathclyde?

- Tailor your studies to suit your research interests and/or career objectives
- Opportunity to choose classes from any of the department's postgraduate taught courses
- Undertake a supervised thesis project

### MRes Geoenvironmental Engineering

The programme is unique in Scotland and the UK for being taught by a group of professionally-qualified civil engineers, chemists, microbiologists and geoscientists.

#### Compulsory Classes

- Contaminated Land
- Hydrogeology
- Research Protocols for Science and Engineering
- Site Investigation and Risk Assessment

### MRes Integrated Pollution Prevention and Control

The programme provides multidisciplinary skills which are not typically provided by undergraduate courses. Participants gain the hands-on experience essential for experimental analysis in our purpose-built laboratory facilities.

#### Compulsory Classes

- Environmental Chemistry
- Environmental Pollution Management
- Research Protocols for Science and Engineering
- Waste Management and Landfill Design

#### Course Duration

12 months full-time; 24 months part-time

### MRes Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in an engineering, life science, earth science or any other relevant discipline.

## Civil Engineering with Optional Specialist Streams

MSc

### Why study this programme at Strathclyde?

- Gain specialist skills to lead future developments
- Choose to follow a specialist named stream
- Benefit from our purpose-built laboratory facilities
- Carry out an industrial project or take part in the work of the Carbon Clinic

### Course Structure

Participants can graduate with an MSc in Civil Engineering or choose to follow one of four specialist streams which incorporate Civil Engineering and Project Management with Structural Engineering/Geotechnical Engineering/Geoenvironmental Engineering/Water Engineering.

#### Compulsory Classes

All students take the compulsory classes Group Design Project and Qualitative and Quantitative Research Methods. Those on the specialist streams (see below) also take the class Project Management, plus three compulsory classes, two optional classes from List A and three from List A or B.

#### MSc in Civil Engineering

Six classes from List A and three classes from List A or B

#### MSc in Civil Engineering with Structural Engineering and Project Management

- Advanced Structural Analysis and Design
- Pre-stressed Concrete, Composite Materials and Structural Stability
- Ground Improvement and Reinforcement

#### MSc in Civil Engineering with Geotechnical Engineering and Project Management

- Ground Improvement and Reinforcement
- Rock Mechanics, Tunnelling and Groundwater
- Slopes and Walls

#### MSc in Civil Engineering with Geoenvironmental Engineering and Project Management

- Site Investigation and Risk Assessment
- Contaminated Land
- Waste Management and Landfill Design

#### MSc in Civil Engineering with Water Engineering and Project Management

- Water and Wastewater Treatment Design
- Urban Water Supply and Drainage Systems
- Water and Environment Management

### Optional Classes

List A (10 credits unless indicated otherwise)

- Ground Improvement and Reinforcement
- Site Investigation and Risk Assessment
- Advanced Structural Analysis and Design
- Pre-stressed Concrete, Composite Materials and Structural Stability
- Waste Management and Landfill Design
- Slopes and Walls
- Rock Mechanics, Tunnelling and Groundwater
- Hydrogeology
- Structural Design (20 credits)
- Renewable Energy Marine Systems
- Contaminated Land
- Water and Wastewater Treatment Design
- Urban Water Supply and Drainage Systems
- Water and Environment Management
- Project Management

List B (10 credits)

- Global Water Policy
- City Systems and Infrastructure
- Financial Engineering
- Environmental Impact Assessment
- Principles of Environmental Microbiology
- Fundamentals of Environmental Forensics
- Science, Technology and Innovation Policy
- Environmental Pollution Management
- Air Pollution, Climate Change and Human Health
- Transport Development and Sustainability
- Geographical Information Systems
- Design Management
- Pollution and Rehabilitation of Degraded Ecosystems
- Water and Wastewater Treatment Design
- Risk Management
- Public Health Studies
- Independent Study in Collaboration with Industry

Within the Independent Study with Industry class you carry out an industrial project or take part in the Carbon Clinic – an innovative collaborative project between the Carbon Trust and the University.

### Course Duration

12 months full-time; 24 - 36 months part-time

### Entry Requirements

First- or upper second-class Honours degree, or equivalent overseas qualification, in any civil engineering discipline. Applicants with a degree in environmental engineering, earth sciences, maths, physics and mechanical engineering, may also be considered.

## Civil Engineering with Industrial Placement (18 months)

MSc

### Why study this programme at Strathclyde?

- Undertake an industrial placement of 8 to 12 weeks
- Gain specialist skills and practical experience
- Choose to follow a specialist named stream
- Opportunity to integrate your knowledge in a major design project

### Course Structure

Students can choose to follow one of the specialist named streams, following the curriculum listed on pg 37, and also incorporating the industrial placement.

#### Year 1

- Semester 1, January to May: taught classes
- June to September: industrial placement
- Semester 2, October to December: taught classes

#### Year 2

- Semester 3, January to June: dissertation

#### Compulsory Classes

- Group Design Project
- Research Protocols for Science and Engineering
- Industrial Placement

#### Optional Classes

- Six modules from List A and three modules from List A or List B (see pg 37)

#### Industrial Placement

A wide range of companies, including AECOM, ATKINS, CAPITA, CH2M HILL and ClimateXChange (Scotland's Centre of Expertise on Climate Change), are offering placements exclusively for this MSc.

#### Start Date

January 2017

#### Course Duration

18 months full-time

#### Entry Requirements

First- or upper second-class Honours degree (or equivalent overseas qualification) in any civil engineering discipline. Applicants with a degree in environmental engineering, earth sciences, maths, physics or mechanical engineering may also be considered.

## Environmental Engineering

MSc

### Why study this programme at Strathclyde?

- Combine scientific concepts of environmental science and engineering
- Study challenging real-world issues
- Take part in the Carbon Clinic which supports small companies to reduce their carbon footprint

### Course Structure

#### Compulsory Classes

- Environmental Chemistry
- Principles of Environmental Microbiology
- Qualitative and Quantitative Research Methods
- Site Investigation and Risk Assessment
- Waste Management and Landfill Design

#### Optional Classes (seven to be chosen)

- Air Pollution, Climate Change and Human Health
- Contaminated Land
- City Systems and Infrastructure
- Engineering Challenges in Nuclear Engineering
- Environmental Impact Assessment
- UK and EU Environmental Law
- Environmental Pollution Management
- Fundamentals of Environmental Forensics
- Geographical Information Systems
- Global Water Policy
- Hydrogeology
- Pollution and Rehabilitation of Degraded Ecosystems
- Water and Environmental Management
- Water and Wastewater Treatment Design
- Independent Study in Collaboration with Industry

MSc students undertake a dissertation from June to August.

#### Course Duration

12 months full-time; 24 - 36 months part-time (on-campus study); 36 months part-time (flexible learning); 60 months open access

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent overseas qualification, in engineering, earth sciences, environmental management or a background in the chemical, physical, biological or mathematical sciences.

## Environmental Entrepreneurship

MSc

### Why study this programme at Strathclyde?

- Suitable programme for graduates of any background
- Develop skills to contribute to environmental improvement and the circular economy
- Learn how to identify business opportunities
- Carry out a four-month project for a client

### Course Structure

#### Compulsory Classes

- Client-Based Environmental Entrepreneurship in Practice
- Qualitative and Quantitative Research Methods
- Entrepreneurship, Innovation and Commercialisation
- New Venture Creation

#### Optional Modules (seven to be chosen)

- Air Pollution, Climate Change and Human Health
- Contaminated Land Management
- Environmental Impact Assessment
- Environmental Pollution Management
- Global Water Policy
- Pollution and Rehabilitation of Degraded Ecosystems
- Science, Technology and Innovation Policy
- Waste Management and Landfill Design
- Energy Resources and Policy
- Environmental Economics
- Energy Economics
- Principles of Economic Appraisal
- International/UK and EU Environmental Law
- Sustainable Product Design and Manufacturing
- Water and Environmental Management
- Hydrogeology
- City Systems and Infrastructure
- Creativity and Opportunity Development
- Entrepreneurial Leadership and Resource Management
- Operational Research and Business Analysis
- Independent Study in Collaboration with Industry

MSc students undertake a dissertation from June to August.

#### Course Duration

12 months full-time; 24 - 36 months part-time; 60 months open access

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent overseas qualification, from all disciplines (engineering, sciences, arts, law, business, education, languages, social sciences). No previous technical knowledge is required.

## Environmental Health Sciences

MSc

### Why study this programme at Strathclyde?

- Develop expertise in assessing and managing risk factors that affect human health
- Lectures and tutorials are complemented by project work, student-led seminars and fieldwork
- Benefit from our purpose-built laboratory facilities

### Course Structure

#### Compulsory Classes

- Air Pollution, Climate Change and Human Health
- Food Inspection and Control
- Food Safety and Hygiene
- Occupational Health and Toxicology
- Public Health Studies
- Qualitative and Quantitative Research Methods
- Waste Management and Landfill Design
- Water and Environmental Management

#### Optional Modules (four to be chosen)

- City Systems and Infrastructure
- Contaminated Land Management
- Environmental Impact Assessment
- Environmental Pollution Management
- Geographic Information Systems
- Infection and Vector Control
- Pollution and Rehabilitation of Degraded Ecosystems
- Principles of Environmental Microbiology
- Sustainability and Strategic Environmental Assessment

MSc students undertake a dissertation from June to August.

#### Course Duration

12 months full-time; 24 - 36 months part-time; 60 months open access

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent overseas qualification, in a relevant life science or engineering discipline.

## Hydrogeology

MSc

### Why study this programme at Strathclyde?

- Develop sought-after fieldwork skills
- Gain practical experience on a week-long field camp in Scotland
- Undertake a work placement in industry
- Opportunity to complete a dissertation project overseas

### Course Structure

#### Compulsory Classes

- Aquifer Mechanics
- Contaminated Land
- Global Water Policy
- Groundwater Flow Modelling
- Environmental Chemistry
- Hydrogeology
- Qualitative and Quantitative Research Methods
- Site Investigation and Risk Assessment

#### Optional Classes

- Environmental Impact Assessment
- Fundamentals of Environmental Forensics
- Geographical Information Systems
- Waste Management and Landfill Design
- Water and Environmental Management
- Engineering Hydrology
- VIP Water and International Development
- Principles of Environmental Microbiology

MSc students undertake a dissertation from June to August.

#### Field Camp

In the spring semester, a week-long field camp in Scotland allows students to gain practical experience in conducting pump tests, recovery tests and chemical sampling.

#### Course Duration

12 months full-time; 24 - 36 months part-time (on-campus study); 36 months part-time (flexible learning); 60 months open access

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent overseas qualification, in earth sciences, civil engineering, environmental engineering or related disciplines.

## Sustainability and Environmental Studies

MSc

### Why study this programme at Strathclyde?

- Take part in the Carbon Clinic which supports small companies to reduce their carbon footprint
- Gain understanding of the global, social, economic, environmental and technological contexts of sustainability and sustainable development

### Course Structure

#### Compulsory Classes

- International Environmental Policy
- Qualitative and Quantitative Research Methods
- Sustainability and Strategic Environmental Assessment

#### Optional Classes (eight to be chosen)

- City Systems and Infrastructure
- Contaminated Land Management
- Energy Economics
- Environmental Impact Assessment
- International Environmental Law
- Environmental Pollution Management
- Geographical Information Systems
- Global Water Policy
- Pollution and Rehabilitation of Degraded Ecosystems
- Principles of Economic Appraisal
- Principles of Environmental Microbiology
- Science, Technology and Innovation Policy
- Waste Management and Landfill Design
- Water and Environmental Management
- Independent Study in Collaboration with Industry
- Air Pollution, Climate Change & Human Health\*
- Energy Resources and Policy\*

\* for students interested in climate change

MSc students undertake a dissertation from June to August.

#### Course Duration

12 months full-time; 24 - 36 months part-time; 60 months open access

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent overseas qualification, in any discipline (engineering, sciences, arts, law, business, education, languages, social sciences). No previous technical knowledge is required.

## Michelle Massart Sustainability and Environmental Studies

As a university among the world's best in engineering, Strathclyde offers unique and tailored MSc courses in environmental studies. The strong focus on developing vocational skills, as well as engagement with industry professionals, has made this course highly engaging and beneficial.

You can customise your degree through the broad range of classes. The course is intensive and challenging, but there is constant support from the department's knowledgeable staff, with experience in both academia and industry.

This course has prepared me well for a career working with environmental assessment and policy, by emphasising the understanding of environmental legislation and the development of professional skills.



# Department of Design, Manufacture and Engineering Management

## RESEARCH DEGREES

MPhil, PhD  
EngD Advanced Manufacturing: Forging and Forming

## Contact for Research Degrees

t: +44 (0)141 548 2015  
e: dmem-pgr@strath.ac.uk

## TAUGHT COURSES

Advanced Manufacture: Technology and Systems  
Design Engineering/Design Engineering with Advanced Product Development/with Sustainability  
Global Innovation Management  
Lean Six Sigma for Process Excellence  
Mechatronics and Automation  
Operations Management in Engineering  
Product Design  
Supply Chain and Operations Management/Logistics Management/Procurement Management

## Contact for Taught Courses

t: +44 (0)141 548 3007  
e: dmem-pgt@strath.ac.uk

The Department of Design, Manufacture and Engineering Management (DMEM) conducts broad-based education and research of relevance to the needs of industry and commerce, as well as public sector policy. We sit in the top 10 UK universities in research performance power rankings, for both business and management studies as well as mechanical, aeronautical and manufacturing engineering.

Our research is centred on the vision of 'Delivering Total Engineering'. We investigate processes, systems and technology to support and enable engineering from concept to remanufacture.

We host the Advanced Forming Research Centre – a partnership between the University of Strathclyde and global industrial manufacturing companies, the Centre for Precision Manufacturing, the Design Research Group, the Engineering Management Group, the Mechatronic and Automation Group, the Remanufacturing Group and the Strathclyde Institute for Operations Management, which brings together the leading experts in Operations Management from Strathclyde's Business School and the Engineering Faculty.

We are also involved in the Advanced Manufacturing Industrial Doctorate Centre, Continuous Manufacturing and Crystallisation, the High Value Manufacturing Catapult, and the Weir Advanced Research Centre.

## Research Areas

### Creativity and Innovation

Our research investigates the creative design process and how this can be optimised to ensure innovative products are delivered. We use technology that enables 3D scanning and capture and reverse engineering. We also have a suite of CAD, virtual and rapid prototyping capabilities. We look at how the engineering design process can be best employed to ensure through-life information and knowledge management, optimised decision-making, systems integration, and successful collaborative and distributed design.

### Materials

With a focus on metals and alloys and ceramics, research encompasses advanced material studies and applications with a systems engineering approach. Much of our research focuses on developing robust datasets to characterise the materials for building more accurate simulation models. We use multi-scale modelling techniques to investigate materials behaviours at different length-scales and to predict the performance of materials during both the manufacturing processes and service conditions. Our research also covers aspects of biomedical materials manufacture and testing.

### Operations

Our research focuses on enabling sustainable performance in manufacturing enterprises across the entire value chain, from concept design to remanufacture. We work with small and medium-sized enterprises as well as large multinational organisations to ensure the work we do is relevant and applicable.

### Sustainability

Sustainability research is concerned with reducing resources, optimising processes and systems, and through-life product support strategies. Research topics include end-of-life strategies, design for environment, net-shape manufacturing and green supply chains.

### Technology

Our research into technology for the manufacturing of materials, components and products is world-leading. It spans areas including forging and forming, micro- and nano-manufacturing, precision engineering, robotics and manufacturing automation. Our researchers also investigate and use digital technologies to support and enhance manufacturing research. We are a lead partner in the UK High Value Manufacturing Catapult, focusing on the development of technology capabilities to enable the exploitation of high value manufacturing opportunities by UK industry.

## Advanced Manufacturing: Forging and Forming

EngD

### Why study this programme at Strathclyde?

- Offered by the Advanced Manufacturing Industrial Doctorate Centre
- Undertake world-leading research in manufacturing techniques, working with global industry
- Gain industrial experience

### Course Structure

The four-year programme starts with a year of classes and projects, which provide a solid grounding in manufacturing and underpin the subsequent industry research project. The following three years are spent developing a research thesis while based within the sponsoring company.

### Industry Orientation (September)

Industrial and academic supervisors will offer advice on academic class options and provide direction for research thesis topics. This collaboration will continue with regular meetings throughout the programme.

### Year 1

#### Semesters 1 and 2

You will complete the following compulsory classes and select six optional classes from the list below.

#### Compulsory Classes

- Manufacturing Automation
- Micro- and Nano-Manufacturing
- Strategic Technology Management
- Advanced Material and Production Technology
- Advanced Forming Technology and Systems
- Research Methodology

#### Optional Classes (six to be chosen)

- Product Design Techniques
- Strategic Supply Chain Management
- CAED Systems
- Project Management
- Systems Integration
- Information Management
- Design of Experiments for Process Optimisation
- Sustainable Product Design and Manufacturing
- Fundamentals of Lean Six Sigma
- Systems Thinking and Modelling

### Semester 3

- Initial Scoping Project (to lead into main research thesis)
- Industrial Visits (as prelude to carrying out research in the industrial company)

### Years 2 - 4

Potential research areas for EngD students based on the manufacturing challenges currently facing industry:

- Higher quality material
- More uniform parts and components
- Understand the distribution of properties
- Location of specific properties
- Improved tooling
- Higher precision final parts
- Longer tool life/better lubricants
- Improved process control
- Press instrumentation
- Equipment layout and process flow
- Automation exploration
- New techniques – novel forming processes, net-shape forming

### Entry Requirements

A first- or upper second-class Honours degree, or a Masters qualification in a science or engineering discipline.

### Funding

Funding support may be available to EU and UK students to cover university tuition fees and also provide an annual stipend of around £15,000, tax free, for four years.

The programme will begin in October each year. EngD applicant interviews will be held between May and August. Applications are welcome throughout the year.

### Contact

t: +44 (0)141 548 3771  
e: dmem-pgr@strath.ac.uk

## Advanced Manufacture: Technology and Systems

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Gain the skills to develop a new career in the manufacturing industry sector
- Undertake an individual and group project
- Manage a project with an industrial client to address a practical problem

### Course Structure

#### Compulsory Classes

- Advanced Material and Production Technology
- Micro- and Nano-Manufacturing
- Advanced Forming Technology Systems
- Manufacturing Automation
- Strategic Technology Management
- Industrial Group Project
- Masters Project

#### Optional Classes (up to three to be chosen)

- Information Management
- Project Management
- Design of Experiments for Process Optimisation
- Sustainable Product Design and Manufacturing
- Product Design Techniques
- Fundamentals of Lean Six Sigma
- Systems Thinking and Modelling
- Strategic Supply Chain Management
- CAED Systems
- Systems Integration

### Course Duration

**MSc:** 12 months full-time

**PgDip:** 9 months full-time

### Entry Requirements

**MSc:** First- or second-class Honours degree, or overseas equivalent, in any discipline.

**PgDip:** Degree, or good HND plus relevant industrial experience, may be considered for entry to the Postgraduate Diploma. Depending on satisfactory progress, students may transfer from the Diploma to the Masters course.

Funding is available to cover tuition fees for eligible Scottish/EU students.

## Design Engineering/with Advanced Product Development/Sustainability

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Choose to follow the Advanced Product Development or Sustainability stream
- Enhance your knowledge and practical design skills
- Graduates from a variety of technical disciplines will be able to address the demands for better products

### Course Structure

#### Compulsory Classes

- Global Design
- Design Methods
- Product Modelling and Visualisation
- Design Management
- Group Project
- Masters Project

#### Optional Classes

- People, Organisation and Technology
  - Strategic Technology Management
  - Supply Chain Operations
  - Strategic Supply Chain Management
  - Enterprise Resource Planning
  - Management of Total Quality and Continuous Improvement
  - Fundamentals of Lean Six Sigma
  - Product Costing and Financial Management
  - System Thinking and Modelling
  - Design of Experiments for Process Optimisation
  - Design Form and Aesthetics
  - Human-Centred Design
  - Sustainability\*
  - Sustainable Product Design and Manufacturing\*
  - Remanufacturing\*
  - Advanced Materials and Production Technology\*\*
  - Engineering Risk Management\*\*
  - Product Design Techniques\*\*
- \* Sustainability stream  
\*\* Advanced Product Development stream

### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

### Entry Requirements

**MSc:** First- or second-class Honours degree, or overseas equivalent, in a relevant engineering, technology or science discipline.

**PgDip:** Degree, or good HND plus industrial experience, may be considered for entry to the Postgraduate Diploma.

## Global Innovation Management

MSc (jointly awarded)

### Why study this programme at Strathclyde?

- Programme offered in English jointly with Strathclyde, Aalborg University (Denmark) and Hamburg University of Technology (Germany)
- Concentrate on cross-functional and global cooperation within the innovation process

### Course Structure

The common first year at Strathclyde includes practical experience of working within globally-distributed teams and with an industrial client. The first semester of Year 2 is spent undertaking either in-depth study of innovation management in Germany or an innovation pilot project in Denmark. In the final semester all students undertake a thesis project, supervised by the second-year host institution.

#### Compulsory Classes

- Management of Innovation
- Global Design
- Design Management
- Design Methods
- Strategic Technology Management
- People, Organisation and Technology
- Supply Chain Operations
- Industrial Group Project

#### Optional Classes (three to be chosen)

- Management of Total Quality and Continuous Improvement
- Engineering Risk Management
- Enterprise Resource Planning
- Strategic Supply Chain Management
- Product Costing and Financial Management
- Sustainable Product Design and Manufacture
- Product Design Techniques
- Fundamentals of Lean Six Sigma
- Systems Thinking and Modelling
- Information Management
- Knowledge Engineering and Management for Engineers

### Course Duration

24 months full-time

### Entry Requirements

Second-class Honours degree, or overseas equivalent, in an engineering, science or technology subject.

## Lean Six Sigma for Process Excellence

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Gain the skills to contribute towards the competitiveness of industrial and commercial organisations worldwide
- Opportunity to work on practical problems
- Learn how to apply the principles and techniques relating to quality and process improvement

### Course Structure

#### Compulsory Classes

- Management of Total Quality and Continuous Improvement
- Design of Experiments for Process Optimisation
- People, Organisation and Technology
- Systems Thinking and Modelling
- Fundamentals of Lean Six Sigma
- Quantitative Business Analysis
- Group Project
- Masters Project

#### Optional Classes (two to be chosen)

- Supply Chain Operations
- Service Operations Management
- Advanced Project Management

### Course Duration

**MSc:** 12 months full-time; 24 months part-time or by arrangement

**PgDip:** 9 months full-time; 21 months part-time or by arrangement

**PgCert:** awarded on completion of 60 credits

### Entry Requirements

**MSc:** First or second-class Honours degree in engineering, technology, science, business or a similar discipline, or overseas equivalent.

**PgDip/PgCert:** Degree or equivalent. Other qualifications with relevant industrial experience will be considered on an individual basis.

## Mechatronics and Automation

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Develop your knowledge and skills to develop multidisciplinary products with an integrated approach
- Benefit from the facilities of our digital design and manufacture studio and prototype workshops
- Contribute to future mechatronic product development

### Course Structure

#### Compulsory Classes

- Manufacturing Automation
- Product Design Techniques
- Product Modelling and Visualisation
- Project Management
- Group Project
- Masters Project

#### Optional Classes

- Systems Integration
- Design Methods
- Control Principles
- Control Techniques

### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

### Entry Requirements

**MSc:** First- or second-class Honours degree, or overseas equivalent, in any discipline.

**PgDip:** Degree, or good HND plus relevant industrial experience, may be considered for entry to the Postgraduate Diploma. Depending on satisfactory progress, students may transfer from the Diploma to the Masters course.

## Operations Management in Engineering

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Opportunity to broaden your expertise from a technological first degree
- Undertake a team project of practical relevance with an external partner
- Examine techniques for operational effectiveness

### Course Structure

#### Compulsory Classes

- Sustainability
- Management of Total Quality and Continuous Improvement
- People, Organisation and Technology
- Engineering Risk Management
- Strategic Technology Management
- Advanced Project Management
- Group Project
- Masters Project

#### Optional Classes (one to be chosen)

- Fundamentals of Lean Six Sigma
- Supply Chain Operations
- Systems Thinking and Modelling

### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

### Entry Requirements

**MSc:** First- or second-class Honours degree, or overseas equivalent, in engineering, technology, business or a similar discipline. Industrial experience is valued and exemptions based on work experience or other similar courses may be possible.

**PgDip:** Degree, or good HND plus relevant industrial experience, may be considered for entry to the Postgraduate Diploma. Depending on satisfactory progress, students may transfer from the Diploma to the Masters course.

## Product Design

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Gain enhanced skills in creative product design
- Learn about products aesthetics and human-centred design, digital modelling and rapid prototyping
- Suitable for graduates from industrial/product design or innovation-related courses

### Course Structure

#### Compulsory Classes

- Global Design
- Design Methods
- Design Management
- Product Modelling and Visualisation
- Management of Innovation
- Design Form and Aesthetics
- Human-Centred Design
- Group Project
- Masters Project

#### Optional Classes (one to be chosen)

- Sustainability
- Sustainable Product Design and Manufacturing
- Remanufacturing
- Advanced Material and Production Technology
- Product Design Techniques
- Engineering Risk Management
- People, Organisation and Technology
- Strategic Technology Management
- Supply Chain Operations
- Strategic Supply Management
- Enterprise Resource Planning
- Management of Total Quality and Continuous Improvement
- Fundamentals of Lean Six Sigma
- Product Costing and Financial Management
- Systems Thinking and Modelling
- Design for Experiments for Process Optimisation

### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

### Entry Requirements

**MSc:** First- or second-class Honours degree, or overseas equivalent, in a relevant design or innovation discipline.

**PgDip:** Degree, or good HND plus relevant industrial experience, may be considered for entry to the Postgraduate Diploma.

## Supply Chain and Operations/Logistics/Procurement Management

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Gain an in-depth understanding of the strategic and operational issues relating to supply chain management
- Accredited by the Chartered Institute for Procurement and Supply and the Chartered Institute for Logistics and Transport

### Course Structure

The programme is delivered in collaboration with Strathclyde Business School.

#### Compulsory Classes

- Business, Operations and Supply Chain Strategy
- Strategic Supply Chain Management
- Supply Chain Operations
- Management of Total Quality and Continuous Improvement
- Enterprise Resource Planning
- Advanced Project Management
- Product Costing and Financial Management
- Case Studies in Supply Chain Management
- Masters Project

#### Specialist Classes by Theme

- Operations Management – Fundamentals of Lean Six Sigma, Service Operations Management
- Logistics Management – Logistics, Logistics Network Optimisation and Simulation
- Procurement Management – Strategic Procurement Management, Organisational Buying Behaviour and Structures

### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

### Entry Requirements

**MSc:** First- or second-class Honours degree, or overseas equivalent, in any discipline.

**PgDip:** Degree, or good HND plus relevant industrial experience, may be considered for entry to the Postgraduate Diploma. Depending on satisfactory progress, students may transfer from the Diploma to the Masters course.

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# Department of Electronic and Electrical Engineering

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## RESEARCH DEGREES

MPhil, PhD, EngD

## TAUGHT COURSES

Advanced Electrical Power Engineering  
Communications, Control and Digital Signal Processing  
Electrical Power Engineering with Business  
Electronic and Electrical Engineering  
Signal Processing  
Wind Energy Systems

## Contact for Research Degrees and Taught Courses

t: +44 (0)141 548 2170

e: [eee-pgadmissions@strath.ac.uk](mailto:eee-pgadmissions@strath.ac.uk)

The Department of Electronic & Electrical Engineering combines research excellence with global industry engagement and first-class teaching to deliver an outstanding student experience.

Internationally-renowned for our expertise in power, energy, signal processing, sensors, ultrasonics and communications, we are No 1 in Scotland for research quality. Our activities are driven by two research institutes, supported by 60 academic staff and more than 290 researchers. These address global challenges ranging from future low carbon smart grids for clean energy and next generation wireless communications, to enhanced surveillance and defence systems. They underpin our taught programmes and knowledge exchange activities.

- Institute for Energy and Environment
- Institute for Sensors, Signals and Communications

Each Institute specialises in multidisciplinary research programmes with key UK and global industry and government partners, and hosts world-class facilities. These include the Power Networks Demonstration Centre (PNDC), Europe's first test centre for the development of smart-grid technologies, and the Facility for Innovation and Research in Structural Testing (FIRST), the UK's only laboratory for non-destructive testing and evaluation (NDE).

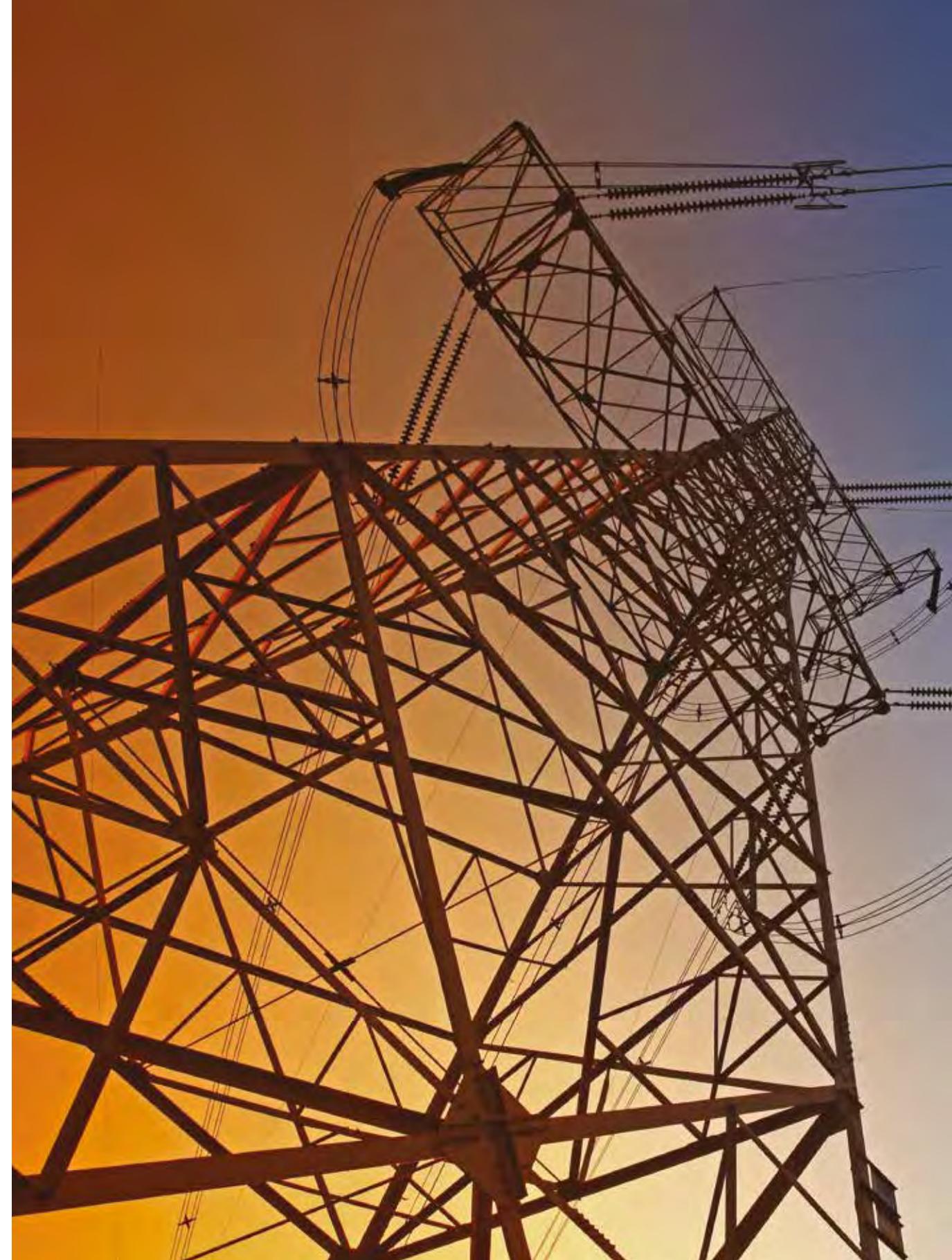
Our Graduate School offers specialist research and taught MSc programmes. These are enhanced by an extensive scholarship scheme providing bursaries, internships and industry engagement, ensuring you gain an education relevant for today's job market and in the future.

## Research Activities

### Institute for Energy and Environment

We are among Europe's leading and largest power systems and energy technology university research groups. Our state-of-the-art research and experimental facilities include two EPSRC Centres for Doctoral Training, the Advanced Nuclear Research Centre and the PNDC. Our fundamental, strategic and applied research portfolio addresses the key technical, policy and economic aspects of energy systems. This is underpinned by four core areas of expertise:

- **Advanced Electrical Systems** – has a world-class reputation for research focused on all aspects of power systems, spanning the electrical grid, aerospace and marine sectors. Our expertise includes protection and automation, power system analysis and renewables integration, active network management, demand side management, intelligent systems and data analytics, energy markets and economics, and sensing and condition monitoring applications. Particular emphasis is placed on future power networks and smart grids, encompassing distributed, renewable energy resources.
- **High-Voltage Technology and Electrical Plant Diagnostics** – has international expertise in the fields of electrical plant, high-voltage materials and components, pulsed-power technologies, discharges from gases and fluids, and non-thermal plasma. It houses the world-class Robertson Trust Laboratory for Electronic Sterilisation Technologies (ROLEST), established to develop electrical technology to meet disinfection and sterilisation requirements in the healthcare and biomedical sectors.
- **Wind Energy and Control** – we are an international leader in all aspects of wind energy, advanced control theory and its application. Our research activities focus on renewable energy technologies to tackle climate change and create sustainable clean energy systems. These include dynamic turbine analysis, modelling and simulation, systems engineering methods, non-linear control system design and their optimisation, along with resource assessment and condition monitoring.
- **Power Electronics, Drives and Energy Conversion** – we are renowned for our research, development and practical expertise in all aspects of power conversion. This ranges from individual power modules, through to specialised hard- and software control platforms and the design, testing and real-time simulation of power electronic systems. Research is supported by world-class simulation and design facilities, and three specialist power electronics laboratories.



### Institute for Sensors, Signals and Communications

From fundamental theory to practical applications, our activities support the advancement of technologies and systems in sectors including healthcare, defence, telecommunications, and oil and gas. We are home to leading research and industry technology transfer facilities including the Hyperspectral Imaging Centre, the Whitespace Wireless Communications Centre and the Facility for Innovation and Research in Structural Testing. Our expertise is focused in four core research centres:

- **Centre for Signal and Image Processing** – is renowned for its research into new algorithms, architectures and applications. It provides a platform for the development of tools, techniques and systems used for the acquisition, analysis and extraction of information. Research work spans biomedical signal and image processing, robotics, MIMO systems, RF signals and systems, wireless communication technologies, and video analytics and surveillance.
- **Centre for Intelligent Dynamic Communications** – brings together internationally-respected groups in communications technology and digital signal processing (DSP). It has three core areas of expertise: broadband networks, mobile communications and DSP-enabled communications. Their activities focus on optical sub-systems and devices, FPGA systems, security for future networks, routing protocols, wireless network regulation and legislation.
- **Centre for Microsystems and Photonics** – has extensive expertise in photonics sensor technology, microsystems and lab-on-a-chip. Our research generates sensor solutions driven by industrial optical metrology requirements and bio-medical optics, while the lab-on-a-chip activities support medical and pharmaceutical science. We offer research opportunities in MEMS design, characterisation and manufacture, optical sensors technology, fibre lasers, and microfluidic devices for biological and healthcare applications.
- **Centre for Ultrasonic Engineering** – is an internationally-leading centre in the field of ultrasonic transducers and transducer systems. Its research expertise includes transducer design, manufacture and characterisation, system prototyping and simulation, instrumentation hardware, robotics, NDE automation and metrology, bioacoustics, and ultrasonic applications in healthcare.

### EPSRC Centre for Doctoral Training in Wind and Marine Energy Systems

This Centre is the UK's only doctoral training programme in Wind and Marine Energy. It is delivered by the UK's leading research groups in wind and marine energy from the Universities of Strathclyde and Edinburgh.

Students undertake a formal programme of training and research to develop their technical interdisciplinary knowledge and broaden their understanding of the social, political and economic contexts of wind power and marine energy systems.

The Centre is the only UK-accredited Centre for Chartered Engineer training, with dual accreditation from the Institution of Engineering and Technology and the Institution of Mechanical Engineers.

Up to 10 four-year PhD studentships are on offer.

Year 1 combines taught classes with professional engineering and research methodologies training. PhD topics are explored during this year, with a final topic agreed for the start of Year 2.

#### Entry Requirements

Studentships are available for UK and eligible EU citizens with a first-class BEng Honours, MEng or MSc degree in a physical sciences or engineering discipline. These cover university tuition fees and offer a competitive stipend for four years. Applications open on 1 October, with interviews conducted between March and July.

#### Contact

t: + 44 (0)141 548 2880  
e: [eee-windmarinecdt-admissions@strath.ac.uk](mailto:eee-windmarinecdt-admissions@strath.ac.uk)

### EPSRC Centre for Doctoral Training in Future Power Networks and Smart Grids

Two of the UK's leading research institutions for power systems, the University of Strathclyde and Imperial College, have combined their expertise and world-class facilities to establish this Centre. It delivers a unique training and research programme, designed to produce highly-skilled engineers who will help realise the future low carbon smart grid.

Up to 10 four-year PhD studentships are on offer.

Year 1 is undertaken at Strathclyde, but includes activities delivered at Imperial College. This combines research-led MSc classes with professional engineering and research methodologies training. Academics from both Institutions support the programme. PhD topics are explored in Year 1 through two industry-inspired mini projects, with the final topic agreed for the start of Year 2. From Year 2 onwards, students study for their PhD at either institution, while participating in cohort events and activities. This is augmented with an industrial or international secondment of up to three months.

#### Entry Requirements

Studentships are available to UK and eligible EU citizens with a first-class BEng Honours, MEng or MSc degree in a physical sciences or engineering discipline. These cover university tuition fees and offer a competitive stipend and travel allowance for conference attendance. Applications open on 1 October, with interviews conducted between January and July.

#### Contact

t: + 44 (0)141 548 5769  
e: [eee-cdtadmissions@strath.ac.uk](mailto:eee-cdtadmissions@strath.ac.uk)

## Scholarship Programmes

### Research Scholarships

In addition to the 20 studentships offered through the EPSRC Centres, each year both Institutes offer a large number of funded research opportunities. Please contact us for details.

### MSc Scholarships

Applicants of outstanding academic calibre are eligible to apply for a range of scholarships offered by the Department, Faculty of Engineering and the University.

#### For International Applicants

- Commonwealth Shared Scholarship Scheme
- University of Strathclyde International Scholarships
- Palestinian Scholarship Scheme
- Scotland's Saltire Scholarships
- Pakistan 50th Anniversary Fund
- Santander Scholarships
- Lloyd's Register Foundation Scholarships
- Faculty of Engineering Excellence Scholarships

#### For Rest of the UK (RUK) Applicants

- RUK Scholarships – £3,000 award for high-calibre MSc applicants from England, Wales and Northern Ireland only

#### For Scottish/EU Applicants

- Postgraduate Funding: Tuition fee loans available from the Student Awards Agency for Scotland ([saas.gov.uk](http://saas.gov.uk))
- Royal College Wind Energy scholarships – up to 15 awards are available for the one-year MSc in Wind Energy Systems

#### Contact for Scholarships Information

t: +44 (0)141 548 2170  
e: [eee-pgadmissions@strath.ac.uk](mailto:eee-pgadmissions@strath.ac.uk)

## Advanced Electrical Power Engineering

MSc

### Why study this programme at Strathclyde?

- It is the UK's first two-year programme of this kind
- Gain expertise in electrical energy and power systems – from fundamental technologies, application and user requirements, to the business and regulatory landscape within which power and utility companies work

### Course Structure

#### Compulsory Classes

- Advanced Power System Analysis and Protection
- HVT and EMC
- Power Electronics for Energy and Drive Control
- Power System Economics, Markets and Asset Management
- Wind Energy and Distributed Energy Resources
- Assignment and Professional Studies

#### Optional Classes

- Digital Signal Processing Principles
- Information Transmission and Security
- Communications Networks
- Control Principles
- Control Techniques
- Software Engineering
- Sensor Technologies

In Year 1 you complete a selection of taught classes and a mini practical project, to develop research and professional engineering skills.

Year 2 combines a major research project within the electrical power and energy disciplines, with a selection of advanced classes designed to broaden your understanding of the topic chosen.

#### Course Duration

24 months full-time

#### Entry Requirements

First- or upper second-class UK Honours degree, or equivalent overseas qualification, in electronic or electrical engineering, from a recognised academic institution.

## Communications, Control and Digital Signal Processing

MSc

### Why study this programme at Strathclyde?

- Gain understanding of all aspects of communications, control technology, and signal processing
- Enhance your job prospects by developing a unique skill set in disciplines that form the basis of modern information engineering

### Course Structure

#### Compulsory Classes

- Digital Signal Processing Principles
- Information Transmission and Security
- Control Principles
- Assignment and Professional Studies

#### Optional Classes (minimum of two to be chosen)

- Communications Networks
- Advanced Digital Signal Processing
- Embedded Systems Design
- Image and Video Processing
- Control Techniques
- Sensor Technologies

You also undertake a three-month summer research project on a topic of your choice. Opportunities exist to conduct this through the Department's competitive MSc industrial internships.

The course is fully accredited by the UK professional body, the Institution of Engineering and Technology.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class UK Honours degree, or equivalent overseas qualification, in electronic, electrical or communications engineering, from a recognised academic institution.

## Kleitia Vasileiou

MSc Communications, Control and Digital Signal Processing

I decided to study a Masters degree at Strathclyde as the Department of Electronic & Electrical Engineering is one of the best in the UK.

My course combines three important aspects of engineering and I have been able to build on the knowledge in these areas from my undergraduate electrical engineering studies in my home country of Cyprus.

Having a Masters degree demonstrates your ability to commit to an intense period of work and helps your personal and professional development.



## Georgios Zacharopoulos

MSc Electronic & Electrical Engineering

The course has enhanced my knowledge in power engineering. The department's labs and the new postgraduate study zone gave me the opportunity to work individually and also in groups with my fellow students.

Coming from Greece, I found the University's services helpful. The residence service helped me find accommodation to suit my budget; the Careers Service helped me to improve my CV and provided opportunities to attend presentations from industry and business. The result is that I have a graduate job offer from a major engineering consultant company.

## Electrical Power Engineering with Business

MSc

### Why study this programme at Strathclyde?

- Develop the design, planning and operational expertise needed for careers in the global electricity and renewable energy sectors
- Engage with our industry partners on real-world energy challenges

### Course Structure

#### Compulsory Classes

- Advanced Power System Analysis and Protection
- HVT and EMC
- Power Electronics for Energy and Drive Control
- Assignment and Professional Studies

#### Optional Classes (minimum of two to be chosen)

- Power System Economics, Markets and Asset Management
- Wind Energy and Distributed Energy Resources
- Wind Turbine Control
- Software Engineering
- Business Information Systems
- Advanced Project Management
- Sensor Technologies

You also undertake a three-month summer research project on a topic of your choice. Opportunities exist to conduct this through the Department's competitive MSc industrial internships.

The course is fully accredited by the UK professional body, the Institution of Engineering and Technology.

### Course Duration

12 months full-time

### Entry Requirements

First- or second-class UK Honours degree, or equivalent overseas qualification, in electronic or electrical engineering, from a recognised academic institution.

## Electronic and Electrical Engineering

MSc

### Why study this programme at Strathclyde?

- Advanced subject options across the entire electronic and electrical engineering discipline
- Tailor the course to match your career interests
- Purpose-built study and IT facilities exclusively for our postgraduate students

### Course Structure

#### Compulsory Class

- Assignment and Professional Studies

#### Optional Classes (minimum of five to be chosen)

- Power Electronics, Machines and Applications
- Power System Design, Operation and Protection
- Digital Signal Processing Principles
- Information Transmission and Security
- Communications Networks
- Control Principles
- Advanced Power System Analysis and Protection
- HVT and EMC
- Power Electronics for Energy and Drive Control
- Power System Economics, Markets and Asset Management
- Wind Energy and Distributed Energy Resources
- Advanced Digital Signal Processing
- Embedded Systems Design
- Image and Video Processing
- Control Techniques
- Software Engineering
- Sensor Technologies

You also undertake a three-month summer research project on a topic of your choice. Opportunities exist to conduct this through the Department's competitive MSc industrial internships.

The course is fully accredited by the UK professional body, the Institution of Engineering and Technology.

### Course Duration

12 months full-time

### Entry Requirements

First- or second-class UK Honours degree, or equivalent overseas qualification, in electronic or electrical engineering, from a recognised academic institution.

## Signal Processing

MSc

### Why study this programme at Strathclyde?

- Gain in-depth knowledge of the complete signal processing design cycle, from theoretical foundations to real-time embedded implementation and application
- Study cutting-edge topics including compressive sensing and deep neural networks

### Course Structure

#### Compulsory Classes

- Digital Signal Processing Principles
- Advanced Digital Signal Processing
- Image and Video Processing
- Embedded Systems Design
- Assignment and Professional Studies

#### Optional Classes (minimum of one to be chosen)

- Information Transmission and Security
- Communications Networks
- Control Principles
- Software Engineering
- Power Electronics for Energy and Drive Control
- Control Techniques
- Wind Energy and Distributed Energy Resources
- Power System Design, Operation and Protection
- Sensor Technologies
- Power Electronics, Machines and Applications
- HVT and EMC
- Power System Economics, Markets and Asset Management

You also undertake a three-month summer research project on a topic of your choice. Opportunities exist to conduct this through the Department's competitive MSc industrial internships.

The course is fully accredited by the UK professional body, the Institution of Engineering and Technology.

### Course Duration

12 months full-time

### Entry Requirements

First- or second-class UK Honours degree, or equivalent overseas qualification, in electronic, electrical or communications engineering, from a recognised academic institution.

## Wind Energy Systems

MSc

### Why study this programme at Strathclyde?

- Study within Europe's largest and leading university electrical power and energy technology research group
- Develop the expertise to strengthen, lead and transform the high-growth global wind energy industry
- Funded places available for Scottish and EU applicants

### Course Structure

#### Compulsory Classes

- Wind Turbine Technology
- Wind Turbine Control
- Power Systems and Wind Integration
- Assignment and Professional Studies

#### Optional Classes (minimum of three to be chosen)

- Power Electronics, Machines and Applications
- Power System Design, Operation and Protection
- Advanced Power System Analysis and Protection
- Power Electronics for Energy and Drive Control
- Power System Economics, Markets and Asset Management
- Inspection and Security
- Geographical Information Systems
- Environmental Impact Assessment
- HVT and EMC

You also undertake a three-month summer research project on a topic of your choice. Opportunities exist to conduct this through the Department's competitive MSc industrial internships.

### Course Duration

12 months full-time

### Entry Requirements

First- or second-class UK Honours degree, or equivalent overseas qualification, in electronic, electrical or systems engineering, from a recognised academic institution.

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# Department of Mechanical and Aerospace Engineering

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## RESEARCH DEGREES

MPhil, PhD

## TAUGHT COURSES

Advanced Mechanical Engineering  
Advanced Mechanical Engineering with Specialist Pathways:  
Aerospace/Energy Systems/Materials/Power Plant  
Technologies  
Sustainable Engineering: Renewable Energy Systems and  
the Environment (part of Sustainable Engineering  
Programme, see pg 19)

## Contact for Research Degrees and Taught Courses

t: +44 (0)141 548 2846

e: mae-pg@strath.ac.uk

The Department is one of the biggest and best of its kind in the UK. We apply our knowledge and understanding in mechanical and aerospace engineering to solve challenges faced by industry and society. It hosts the Energy Systems Research Unit, the Advanced Space Concepts Laboratory, the Future Air-Space Transportation Laboratory, the James Weir Fluids Laboratory and the Mechanics and Materials Research Centre.

## Research Themes

### Energy

Research takes place within the Energy Systems Research Unit. We develop and test new methods and technologies for energy reduction and supply, and help designers create clean and sustainable solutions. We offer consultancy services that include the laboratory testing of new products, the performance appraisal of proposed new designs or retrofits, and the field monitoring of energy systems in use. Our research goals include:

- improving the accuracy of the mathematical models and numerical methods used to represent heat, mass and power flow
- applying simulation to optimise energy component/system performance and promote energy efficiency measures
- evolving software engineering techniques that increase researcher efficiency and program robustness
- improving confidence in predictions through the development of program validation, calibration and accreditation procedures
- constructing knowledge-based design support environments to enable application interoperability and effective teamwork

### Aerospace

Research in the Aerospace Centre of Excellence delivers new approaches to systems engineering, flight mechanics and computational intelligence to underpin new concepts and technologies for the sustainable exploration and exploitation of space, space situational awareness, remote sensing, robotics and autonomy, space services and cost-effective, efficient and reliable global transport and access to space. The Centre is part of the Strathclyde Space Institute which looks at key challenges in space science and exploration, Earth observation and aerospace transport. It currently encapsulates the Advanced Space Concepts Laboratory, the Centre for Future Air-Space Transportation Technology and the Intelligent Computational Engineering laboratory. Major areas of development are satellite and space systems, risk, reliability and resilience of complex aerospace systems, sustainable aerospace transports.

### Fluids

At the James Weir Fluids Laboratory, we explore the fundamental flow physics for new fluids technologies in the fields of energy, sustainability, nanotechnology, health and transport. We have developed simulation tools to test new concepts, products and designs. We have experimental platforms for microfluidics and complex fluids and we are skilled in industrial computational fluid dynamics on local and national high-performance computers. Our current projects cover nanoliquids, microscale gas flows, interfacial dynamics, and micro-droplet technology.

### Materials

Materials for energy conversion applications, renewable and nuclear conversion and bio-mechanics are among the areas explored by the Mechanics and Materials Research Centre. Our research focuses on mechanics (including solid mechanics), polymers and polymer composites, and tribology and tribo-corrosion. Our department also hosts the Tribo-Corrosion Network and is home to the Advanced Materials Research Laboratory.

### Facilities

The Department's large-scale laboratory facilities include:

- High Speed Computer (1088 cores)
- 1.5m low-speed/0.9m environmental wind tunnel
- facilities for carrying out vibration and shock tests
- techniques for machinery condition diagnosing from vibration signals
- polymer processing laboratory
- optical strain measurement facility
- autoclave with 10 bar pressure capacity and temperatures up to 650°C



## Scholarship Programmes

### Research Scholarships

Each year, the Department has a limited number of fully-funded PhD scholarships available to first-class applicants. Internal applications normally take place in March and June each year. Prospective UK/EU students who hold (or expect to hold) a first-class Honours degree or an MSc with Distinction are encouraged to make an informal expression of interest between November and January to take advantage of potential scholarships.

### MSc Scholarships

Applicants of outstanding calibre (usually holders of a first-class Honours degree or equivalent overseas qualification) may be eligible to apply for a range of international scholarships offered by the University:

- Aero MSc Bursary Scheme
- Commonwealth Shared Scholarship
- Mackenzie Scholarship
- Pakistan 50th Anniversary Scholarship
- ScottishPower/Iberdrola Foundation Scholarship
- Scotland's Saltire Scholarships
- The Dean's Excellence Award for India
- Tullow Group Scholarship
- University of Strathclyde International Scholarship

### Scottish/EU Applicants

Scottish/EU postgraduate applicants may be eligible to apply to the Student Awards Agency for Scotland ([www.saas.gov.uk](http://www.saas.gov.uk)) for a tuition fee loan to help towards the cost of their fees.

### Rest of the UK (RUK) Scholarship

£3,000 for a high-calibre student from England, Wales or Northern Ireland (RUK).

### Contact for Scholarship Information

t: +44 (0)141 548 2846  
e: [mae-pg@strath.ac.uk](mailto:mae-pg@strath.ac.uk)

## Sustainable Engineering Programme: Renewable Energy Systems and the Environment MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Cross-disciplinary programme with input from industry
- Accredited by the Energy Institute, the Institution of Mechanical Engineers & the Royal Aeronautical Society
- Explore how quality of life can be balanced by the need for conservation of world resources

### Course Structure

- Instructional Classes
- Group Project
- Individual Project

### Generic Classes (three to be chosen)

- Design Management
- Financial Engineering
- Project Management
- Risk Management
- Environmental Impact Assessment

### Specialist Classes

- Energy Resources and Policy
- Energy Systems Analysis
- Electrical Power Systems
- Energy Modelling and Monitoring

### Group Project

You work within a group of students from different specialist themes to produce sustainable solutions for real-life industry problems. Site visits, field trips and regular progress reports to industry partners are an integral part of the process.

### Individual Project

MSc students study a selected topic in depth and submit a thesis. There is substantial industry input at this stage in the form of project ideas.

### Course Duration

**MSc:** 12 months full-time; 24 months part-time (minimum)  
**PgCert/PgDip:** 9 months full-time; 18 months part-time

### Entry Requirements

First degree or other qualification equivalent to an Honours degree in a relevant engineering, technology or science discipline. Entry may be possible with other qualifications provided there is evidence of relevant experience and of the capacity for postgraduate study.

## Advanced Mechanical Engineering

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Accreditation by the Institution of Mechanical Engineers
- Develop in-depth technical understanding of advanced mechanical topics
- Gain skills in project management and risk analysis
- Choice of specialist pathways to widen career options

### Specialist Pathways

In addition to the Advanced Mechanical Engineering (AME) programme, the following specialist pathways are offered at MSc level only:

MSc Advanced Mechanical Engineering with Aerospace  
MSc Advanced Mechanical Engineering with Energy Systems  
MSc Advanced Mechanical Engineering with Materials  
MSc Advanced Mechanical Engineering with Power Plant Technologies

### Course Structure

#### Compulsory Classes

Up to nine technical classes, plus three business (generic) classes can be chosen. MSc students also undertake an individual project. Students on the Advanced Mechanical Engineering course can select from any of the technical classes below.

- Pressurised Systems
- Systems Engineering 1 & 2
- Machine Dynamics
- Machinery Diagnosis and Condition Monitoring
- Mathematical Modelling in Engineering Science
- Advanced Topics in Fluid Systems Engineering
- Lightweight Structures
- Spaceflight Systems
- Advanced Boiler Technologies 2
- Energy Resources and Policy

**Aerospace** (compulsory for AME with Aerospace, optional for other streams)

- Aerodynamic Performance
- Aerodynamic Propulsion Systems
- Spaceflight Mechanics

**Energy** (compulsory for AME with Energy Systems, optional for other streams)

- Energy Resources and Policy
- Electrical Power Systems
- Energy Modelling and Monitoring

**Materials** (compulsory for AME with Materials, optional for other streams)

- Engineering Composites
- Polymer and Polymer Composites
- Industrial Metallurgy

**Power Plant Technologies** (compulsory for AME with Power Plant Technologies, optional for other streams)

- Advanced Boiler Technologies 1
- Gas and Steam Turbines
- Electrical Power Systems

### Generic Classes

- Design Management
- Project Management
- Risk Management
- Financial Engineering
- Environmental Impact Assessment
- Sustainability

### Course Duration

**MSc:** 12 months full-time; 24 months part-time (minimum)  
**PgDip/PgCert:** 9 months full-time; 18 months part-time

### Entry Requirements

**MSc:** First- or second-class Honours degree, or overseas equivalent, in engineering or physical science.

**PgDip/PgCert:** Normally a first degree in a relevant subject, but other applicants with equivalent industrial experience may be considered.

# Department of Naval Architecture, Ocean and Marine Engineering

## RESEARCH DEGREES

MPhil, PhD

### Contact for Research Degrees

t: +44 (0)141 548 4098

e: naome-research@strath.ac.uk

## TAUGHT COURSES

Marine Engineering

Offshore Floating Systems

Ship and Offshore Structures

Ship and Offshore Technology (two-year programme offered jointly with Hamburg University of Technology)

Subsea and Pipeline Engineering

Sustainable Engineering: Offshore Renewable Energy (part of Sustainable Engineering Programme, see pg 19)

### Contact for Taught Courses

t: +44 (0)141 548 4094

e: naome-pg@strath.ac.uk

The Department of Naval Architecture, Ocean and Marine Engineering (NAOME) has staff expertise covering all areas of Naval Architecture, Ship Design, Marine Engineering, Ocean Engineering, High-Speed and Small Craft Design. The Department's laboratory and computing facilities include the largest university ship model experiment tank in the UK, a small towing/wave-making tank and a diesel engine test facility. The Department also has a racing yacht which students can use.

## Research

NAOME is a highly-active research department, with world-leading expertise in a number of areas. We carry out research which is supporting industry in a useful and innovative way. We take part in research projects and networks funded by the UK government, the EU and the Engineering and Physical Sciences Research Council. Our researchers also participate in research bodies such as the EU Research and Development Co-ordination Group and the International Maritime Organisation. Our main research interests lie in:

- ship stability and safety
- marine hydrodynamics
- marine structures
- ocean engineering
- marine engineering
- emerging technologies
- marine renewable energy and alternative fuels
- marine design, operation and human factors

## Research Areas

### Safety

Our research is internationally recognised as the leading authority in all areas related to maritime safety. Our researchers work with a wide range of companies and stakeholders within the maritime industry. Our research areas include maritime safety, stability, survivability, human factors in design and operation, risk-based ship design, resilience engineering, emergency preparedness and evacuation, and collision avoidance.

### Sustainable Shipping

We conduct research in all areas related to increasing shipping's sustainability, including marine noise and vibration, energy efficiency, predictive maintenance and ship recycling. Our research areas include low carbon and low emission shipping, energy efficiency, life-cycle analysis, advanced marine design, marine noise and vibration, marine fouling, alternative fuels, fuel cells, operations and maintenance modelling, and ship recycling.

### Oil and Gas

Our research supports the offshore oil and gas industry in addressing the key challenges of today and the future. Research areas include design and dynamics of fixed and floating offshore platforms, vortex-induced vibration, vortex induced motion in risers and pipelines, fatigue and fracture analysis, computational fluid dynamics, computational structure dynamics, operations and maintenance modelling, logistics and management, safety and reliability, carbon capture and storage, and decommissioning.

### Marine Renewables

We are involved in the research and testing of various offshore wind, current and wave energy devices. Our research is focused on supporting the development of offshore wind, wave and tidal-current energy to assist in the provision of diverse energy sources, driving economic growth in the renewable energy sector, and keeping us on track in meeting carbon reduction objectives for the coming decades. Our research areas include analysis and design of marine renewable devices, testing and performance assessment, computational fluid dynamics, computational structure dynamics, operations and maintenance modelling, logistics and management, and safety and reliability.

### Scholarships and Funding

Applicants from Scotland and non-UK EU countries may be eligible for fees-only support from the Student Awards Agency for Scotland ([www.saas.gov.uk](http://www.saas.gov.uk)). In addition, there are a limited number of scholarships from industry including BP and the Lloyd's Register Foundation. Please contact the Department.



## Marine Engineering

MSc/PgDip

### Why study this programme at Strathclyde?

- Accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology
- Enhance your teamworking and communication skills with group project work

### Course Structure

The programme has three components:

- Instructional Modules
- Group Project
- Individual Project (MSc only)

### Compulsory Classes

- Advanced Marine Engineering
- Marine Engineering Simulation and Modelling
- Inspection and Survey
- Maritime Safety and Risk
- Onboard Energy Management and Marine Environment
- Systems Availability and Maintenance
- Marine Transport and Economics

### Optional Classes

- Risk Management
- Financial Engineering
- Design Management
- Project Management

### Course Duration

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

### Entry Requirements

**MSc:** BEng with first- or upper second-class Honours, or equivalent overseas qualification.  
**PgDip:** Applicants with marginally lower qualifications will be considered for the Postgraduate Diploma in the first instance. Applicants with other qualifications will be considered on an individual basis.

## Offshore Floating Systems

MSc/PgDip

### Why study this programme at Strathclyde?

- Gain practical knowledge of offshore floating systems
- Benefit from guest lectures by industry leaders
- Accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology

### Course Structure

The programme has three components:

- Instructional Modules
- Group Project
- Individual Project (MSc only)

### Compulsory Classes

- Inspection and Survey
- Offshore Engineering Practice
- Risers and Mooring Lines
- Dynamics of Floating Offshore Installations
- Finite Element Analysis of Floating Structures
- Maritime Safety and Risk
- Design and Construction of Floating, Production, Storage and Offloading Vessels

### Optional Classes (one to be chosen)

- Advanced Marine Structures
- Theory and Practice of Marine Computational Fluid Dynamics

### Course Duration

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

### Entry Requirements

**MSc:** BEng with first- or upper second-class Honours, or equivalent overseas qualification.  
**PgDip:** Applicants with marginally lower qualifications will be considered for the Postgraduate Diploma in the first instance. Applicants with other qualifications will be considered on an individual basis.

## Ship and Offshore Structures

MSc/PgDip

### Why study this programme at Strathclyde?

- Accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology
- Learn about the factors influencing the dynamic behaviour of offshore installations

### Course Structure

The programme has three components:

- Instructional Modules
- Group Project
- Individual Project (MSc only)

### Compulsory Classes

- Risers and Mooring Lines
- Dynamics of Floating Offshore Installations
- Finite Element Analysis of Floating Structures
- Advanced Marine Structures
- Reliability-based Structural Design and Plated Structures
- Computational Modelling of Problems in Plated Mechanics
- Materials Engineering

### Course Duration

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

### Entry Requirements

**MSc:** BEng with first- or upper second-class Honours, or equivalent overseas qualification.  
**PgDip:** Applicants with marginally lower qualifications will be considered for the Postgraduate Diploma in the first instance. Applicants with other qualifications will be considered on an individual basis.

## Ship and Offshore Technology

MSc (two-year programme with Hamburg University of Technology)

### Why study this programme at Strathclyde?

- Gain an award in the name of two universities
- Complete an intensive German language course
- Accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology

### Course Structure

The course is offered jointly between the University of Strathclyde and Hamburg University of Technology, Germany; the awards are made in the name of both universities.

### Year 1 (University of Strathclyde)

- Offshore Engineering Practice
- Risers and Mooring Lines
- Marine Pipelines
- Dynamics of Floating Offshore Installations
- Maritime Safety and Risk
- Design and Construction of Floating, Production, Storage and Offloading Vessels
- Theory and Practice of Marine CFD
- Inspection and Survey
- Group Project
- Research Project

### Year 2 (Hamburg University of Technology)

- Structural Analysis of Ships and Offshore Structures
- Ship Design
- Ship Vibration
- Masters Thesis

### Optional Classes

- Non-Linear Structural Analysis
- Fatigue Strength of Ships and Offshore Structures
- Arctic Technology
- Innovative CFD Approaches
- Manoeuvrability and Shallow Water Ship Hydrodynamics
- Seakeeping of Ships and Naval Architecture Laboratory

### Course Duration

24 months full-time

### Entry Requirements

BEng with first-class Honours, or equivalent overseas qualification, in a marine or marine-related engineering subject. Knowledge of structural mechanics, hydrostatics, fluid dynamics, ship resistance and propulsion and ship design is essential.

## Subsea and Pipeline Engineering

MSc/PgDip

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### Why study this programme at Strathclyde?

- Accreditation by the Royal Institution of Naval Architects and the Institute of Marine Engineering, Science and Technology
- Gain advanced knowledge of subsea systems
- Benefit from excellent teaching facilities

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### Course Structure

The programme has three components:

- Instructional Modules
- Group Project
- Individual Project (MSc only)

#### Compulsory Classes

- Maritime Safety and Risk
- Risers and Mooring Lines
- Marine Pipelines
- Subsea Systems and Installation
- Offshore Engineering Practice
- Subsurface Technology
- Marine Pipeline Integrity
- Dynamics of Floating Offshore Installations

#### Course Duration

**MSc:** 12 months full-time

**PgDip:** 9 months full-time

#### Entry Requirements

**MSc:** BEng with first- or upper second-class Honours, or equivalent overseas qualification.

**PgDip:** Applicants with marginally lower qualifications will be considered for the Postgraduate Diploma in the first instance. Applicants with other qualifications will be considered on an individual basis.

# HUMANITIES & SOCIAL SCIENCES

# WE ARE THE FACULTY OF HUMANITIES & SOCIAL SCIENCES

**We believe education has the capacity to change lives, and providing an enriching student experience for you is a priority for us. Our students tell us they come to Strathclyde for a life-changing experience, and that is what they get.**

In Humanities and Social Sciences (HaSS) we focus on the fundamental building block of society: human endeavour.

Studying here, you will better understand how human beings think, act and interact with one another and the world around them. Employers value this knowledge. Our graduates form the backbone of the professions, business and industry, and public services in Scotland and around the world.

Our seven schools touch every aspect of human life: education and learning; government and public policy; humanities and culture; justice and the law; life-long learning; psychological sciences and health; and social work and social policy.

We have strong links with governments, global organisations and academic networks.

Our commitment to 'useful learning' means that our graduates are sought-after. Intellectually engaged, but focused on applying knowledge, they know how the world works, and how to make it a better place.

**Contact**  
Humanities & Social Sciences  
t: +44 (0)141 444 8600  
e: [hass-pgt-enquiries@strath.ac.uk](mailto:hass-pgt-enquiries@strath.ac.uk)



We provide  
**transformational  
learning**  
rooted in the  
real world.

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# School of Education

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## RESEARCH DEGREES

MPhil, PhD, EdD

### Contact for Research Degrees

e: hass-postgrad@strath.ac.uk

## TAUGHT COURSES

PGDE Primary  
PGDE Secondary  
Applied Educational and Social Research  
Autism  
Educational Leadership  
Education Studies  
Part-time MEd Programmes

### Contact for Taught Courses

e: hass-pgt-enquiries@strath.ac.uk

The School of Education is the leading provider of teacher education in Scotland and one of the largest in the UK. Our teacher education courses have a strong track record and are highly-valued by our students. Our graduates are sought by schools all over the country, and the majority of our students are in employment by graduation.

We are home to:

- Autism Network Scotland
- Scotland's National Centre for Languages (SCILT)
- Confucius Institute

We have a vibrant research culture and our work is noted for its high impact as we try to better the lives of children and practitioners in Scotland and beyond.

## Research

### PhD in Education

The School of Education welcomes proposals from prospective students to study at doctorate level. Admission to the PhD programme is primarily based on the quality of a proposal and its match to areas of research expertise held by members of staff. So we encourage prospective students to engage with our research areas.

We offer a research community with excellent connections to national and international education research and practice communities. You will be invited to participate in a range of research and knowledge exchange activities where you can learn from and with us about the research, policy and practice innovation and evaluation.

## Research Areas

Our academic staff have national and international recognition for their research and represent a range of expertise spanning diverse aspects of education. The following areas are some of the key aspects in which we can offer supervision:

- evidence-based practice
- learning-based pedagogies
- policy evaluation
- gender and sexuality
- equity and diversity
- curriculum development
- inclusion and issues around children with special educational needs, particularly autism
- children and childhood
- a strong theme around social justice and civic responsibility

In addition, colleagues are at the forefront of innovative research approaches including quantitative methods, secondary data sets, mixed methods, visual methodology and participatory ways of working.

These areas are supported by specialist centres within the School, such as the Centre for Lifelong Learning, SCILT – Scotland's National Centre for Languages, the National Centre for Autism Studies and the Centre for Children and Young People Studies in which postgraduate research students are encouraged to play a full part.

The School of Education at Strathclyde is part of the Scottish Doctoral Training Centre through which ESRC Studentships in Education can be gained.

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## Doctor of Education

EdD (full-time, part-time)

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### Why study this programme at Strathclyde?

- Benefit from the support of staff within the Faculty Graduate School
  - Engage in Doctoral study which will make an impact on and enhance your professional practice
  - Choose full-time or part-time study mode
- 

The taught components are delivered as part-time study with attendance approximately every second Saturday between September and March. It is possible to study the dissertation component only as full-time.

The EdD award is based on satisfactory completion of four modules of directed study at post-Masters level, followed by a thesis for which both group and individual tutor support is provided.

Block A equates to one year of study and comprises:

- Literature and Scholarship
- Methods of Enquiry in Professional Education

Block B equates to one year of study and comprises:

- The Professional Dimension
- Synoptic Paper

Block C culminates in submission and examination of a thesis of approximately 50,000 words.

### Course Duration

Full-time: three years

Part-time: a minimum of four years

### Entry Requirements

Masters degree or at least one year of full-time experience (or equivalent) in a professional field with an educational dimension.

International students require a minimum IELTS score of 7.5 in writing and reading.

## Professional Graduate Diploma in Education

Primary and Secondary Pathways

### Why study this programme at Strathclyde?

- Learn from on-campus classes and 19 weeks of placements in schools
- Become qualified to teach in locations world-wide
- Opportunity to achieve Masters-level credits
- Funded places available (Scottish and EU students only)

### Course Structure

The course provides the theoretical and practical starting point to your teaching career. You will acquire the skills, attitudes and competencies to communicate in the classroom.

Those following the Primary route will be qualified to teach from nursery (age 3) to Primary 7 (age 12). The Secondary route qualifies you to teach specific subjects to pupils aged 11 to 17 years.

### Masters-level Credits

As part of the course, you will have the opportunity to gain up to 80 Masters-level credits. On completion of these, there are opportunities in the subsequent year to work towards further Masters qualifications, either on a face-to-face or online basis.

### Compulsory Classes

- Placement Learning – taught both on campus and in schools, this module will enable you to become an effective teacher through learning pedagogical theory, observing experienced teachers and applying your knowledge through delivering teaching.
- Creative Contexts for Learning – examines what is taught and how teachers use assessment to promote learning.
- Educational Perspectives and Policies – develops your understanding of educational issues in a broader intellectual context.
- Principles and Policy in Practice – is the companion module to Educational Perspective and Policies and shares a focus on critical professional engagement informed by educational research and theory.
- Professional Specialisation – allows you to undertake further study in an area of particular interest.

You are expected to keep a portfolio of progress throughout the course. This prepares you for the continuation of professional development during your teaching career.

SECONDARY SUBJECT AREAS AVAILABLE		
You will have the opportunity to qualify in one or two subjects, depending on the combination.		
Art and Design	Gaelic	Mandarin
Biology	Geography	Music
Business Education	German	Physical Education
Chemistry	History	Physics
Computing	Home Economics	Psychology
English	Italian	Religious Education
French	Maths	Technological Education

### Course Duration

38 weeks full-time, including 19-week placement experience

### Entry Requirements

A university degree validated by a higher education institution in the UK, or a degree of an equivalent standard from an institution outside the UK. (A degree should have at least 360 credit points.) For the Secondary route, we require passes in at least two years' progressive study in the subject(s) you want to teach.

National Qualifications in English at SCQF Level 6 (for example, Higher Grade) or an accepted alternative; National Qualifications in Mathematics at SCQF Level 5 (eg National 5, or Intermediate 2) or an accepted alternative.

We also require the following information, which is considered when selecting candidates for interview (please note interviews can be held by Skype):

- evidence that you have experience of working with children in a school setting or related context
- an understanding of modern education
- an ability to relate to people

## Megan Cathcart

PGDE Secondary  
(English and History)

I chose to study at Strathclyde because I wanted to teach in the UK and I had heard really good things about the University from fellow Canadians at home. The small class size at Strathclyde, compared to Canada, meant I knew everyone on my history course very well and people still keep in touch. Although we had larger classes for some of the broader elements of teaching, our classes were focused to my needs and goals. The best part was undertaking placements in two different schools. The range of the experience, and the support I received from my tutor, meant I was able to hone the skills I needed to improve.

I am now teaching English to get experience before I choose where to specialise. I'm hoping to return to get my Masters in Education at Strathclyde.



## Applied Education and Social Research

MSc/PgDip (full-time & part-time)

### Why study this programme at Strathclyde?

- Tailor your classes to suit personal interests
- Delivered by open learning to let you plan your own learning
- Ideal research preparation for PhD study
- Take part in online discussion groups

### Course Structure

#### Compulsory Classes

- Educational and Social Research and Enquiry
- Design Strategies in Educational and Social Research
- Data Collection in Educational and Social Research
- Data Analysis in Educational and Social Research

#### Optional Classes

- Further Quantitative Research Design and Data Analysis
- Further Qualitative Research Design and Data Analysis
- Educational and Social Research and the Social Science Disciplines
- Reviewing and Analysing Research Literature
- Writing for Funding and Publication

#### Masters Students Only

- Dissertation

#### Course Duration

One year full-time by attendance; two years part-time by distance learning

#### Entry Requirements

An undergraduate degree or equivalent.

## Autism

MSc (full-time)

### Why study this programme at Strathclyde?

- Understand complex cognitive and affective theories essential to supporting the autism profile
- Translate theory into practice with a work placement
- Receive input from internationally-respected autism experts

### Course Structure

#### Compulsory Classes

- Conceptual Frameworks
- The Spectrum of Autism
- Responding to the Impact of Autism: Approaches and Interventions
- Emotional Wellbeing

#### Optional Classes

- Counselling Skills in Autism
- Becoming a Trainer
- Dissertation

#### Course Duration

12 months

#### Entry Requirements

Undergraduate degree in a related discipline, or equivalent qualification, and direct experience of living or working with individuals on the autism spectrum. Experience is essential as students must demonstrate theory to practice links.

## Educational Leadership

MSc (full-time)

### Why study this programme at Strathclyde?

- Enhance your professional practice and develop leadership capacities and skills
- Choose a dissertation or work-based project
- Focus on leadership in a range of educational settings
- Learn from experts in educational settings

### Course Structure

#### Compulsory Classes

- Conceptions of Leadership
- Leadership for Learning
- Leadership for Equity, Inclusion and Social Justice
- Leadership for School Improvement
- Contexts for Leadership
- Research Methods and Reasoning
- Dissertation

#### Course Duration

12 months

#### Entry Requirements

Undergraduate degree or relevant professional qualification. A teaching qualification (or equivalent), or relevant experience within an educational setting.

## Education Studies

MSc (full-time)

### Why study this programme at Strathclyde?

- Develop an understanding of the concept of policy relating to education
- Enhance practice and career opportunities in the broader field of education
- Gain a grounding in research methods and reasoning

### Course Structure

#### Compulsory Class

- Understanding Education Policy
- Frameworks for Understanding Learning
- Research Methods and Reasoning
- Technology Enhanced Learning: Theory and Practice

#### Optional Classes

- Curricular Studies
- Early Years Pedagogy
- Inclusion
- Policy and Management
- Learning for Sustainability
- Health and Wellbeing
- Philosophy with Children

#### Masters Students Only

- Dissertation

#### Course Duration

12 months

#### Entry Requirements

Degree or relevant professional qualification, or a combination of qualifications and experience demonstrating capacity for postgraduate study.

## Part-time Taught Masters Programmes

MEd

### Why study this programme at Strathclyde?

- Apply your learning as you study to improve your practice
- Gain recognition for continuing professional development
- Undertake individual classes and use credits as prior learning towards a Masters qualification

### Course Structure

Our MEd programmes are undertaken by part-time study over three academic years. Students are expected to attain 60 credits per year, resulting in 180 credits.

#### Year 1

Students undertake three 20-credit classes, normally one class per semester.

For classes taught on campus, this will involve attending either in the evening or on Saturday mornings. Each 20-credit class should take 200 hours to complete, including self study.

Distance learning classes involve participation in weekly online seminars. The seminars are scheduled in the evening to accommodate working professionals. Each 20-credit class should take 200 hours to complete, including self study.

Students who decide to complete their studies after one year will graduate with a Postgraduate Certificate.

#### Year 2

Students undertake three 20-credit classes, normally comprising two optional classes and a compulsory class, one per semester. The compulsory class, Research Methods and Reasoning, is delivered entirely online.

Students who decide to complete their studies at the end of year two will graduate with a Postgraduate Diploma.

#### Dissertation

Following the Postgraduate Diploma you can undertake a research dissertation in a subject area of your choice worth 60 credits. We will match you to an appropriate supervisor to provide one-to-one support. Your dissertation can be completed via distance learning to provide flexibility around work commitments.

Some of the areas available for part-time study include:

- Autism
- Children and Young People's Literacy, Language and Literature
- Children's Numeracy: Cognitively-Guided Instruction
- Early Years Pedagogue
- Educational Leadership
- Education Studies
- Gaelic Immersion for Teachers
- Inclusive Education
- Philosophy with Children
- Professional Practice
- Supporting Bilingual Learners
- Supporting Teacher Learning
- The Creative Child and the Creative Practitioner

For further information, please contact us ([hass-pgt-enquiries@strath.ac.uk](mailto:hass-pgt-enquiries@strath.ac.uk)) or visit our website ([www.strath.ac.uk/humanities/schoolofeducation](http://www.strath.ac.uk/humanities/schoolofeducation)).

## Centre for Lifelong Learning

### TAUGHT COURSES

Genealogical, Palaeographic and Heraldic Studies  
Safety and Risk Management  
Safety and Risk Management Leadership

### Contact for Taught Courses

t: +44 (0)141 548 2116  
e: [learn-cll@strath.ac.uk](mailto:learn-cll@strath.ac.uk)

For more than 40 years, the Centre for Lifelong Learning has contributed to the University's founding principle to be a 'place of useful learning open to all'.

Through providing a range of learning opportunities for adults of all ages, the Centre encourages participation in learning throughout life, whether for personal or professional development. Its online postgraduate programmes are renowned for being practitioner-focused, ensuring students emerge with skills of direct relevance to their lives, work and career ambitions.

## Genealogical, Palaeographic and Heraldic Studies

MSc/PgDip/PgCert (part-time distance learning)

### Why study this programme at Strathclyde?

- Gain a grounding in the theory and practice of genealogical research, records, archives and heraldry
- Focus on the sources available to genealogists and family historians
- Study online by distance learning

### Course Structure

#### Compulsory Classes

- Professional Practice and Methodologies 1
- Repositories, Geography and Administration 1
- Civil and Church Records 1
- Family History Studies and Overseas Records
- Property, Law and Inheritance 1
- Heraldry and Latin 1
- Methods of Professional Enquiry and Research Project 2
- Genealogy, Heraldry and Social History 2
- Documents, Paleography and Research Studies 2

#### Masters Students Only

- Professional Enquiry and Development and dissertation

### Entry Requirements

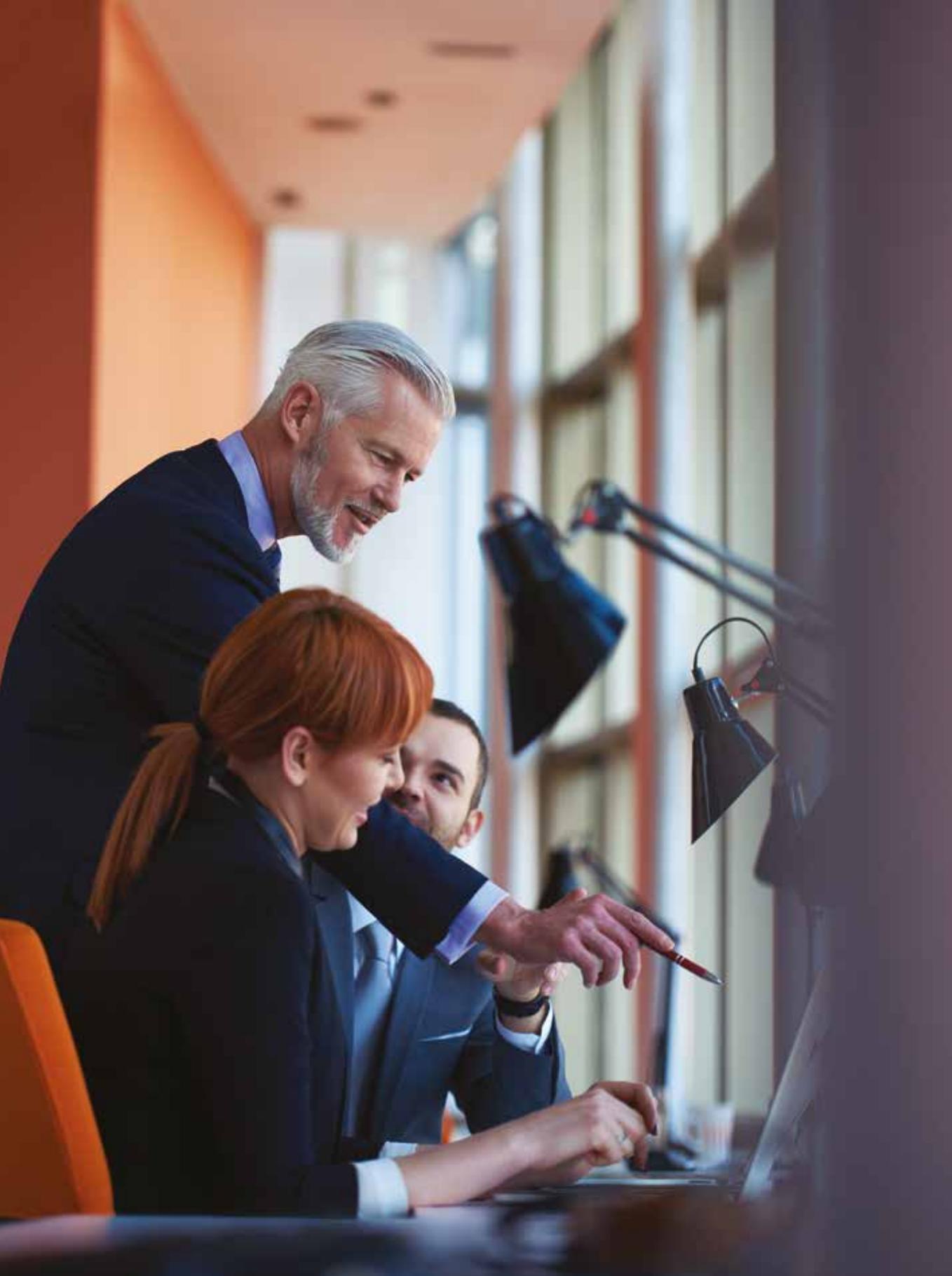
**PgCert:** Normally a degree or similar evidence of study skills is required however non-standard educational or professional qualifications will be considered, particularly the Open Studies Certificate in Genealogical Studies offered by the University. Some experience in genealogical (or other relevant) research is also required.

**PgDip:** Entry is normally by successful completion of the Postgraduate Certificate.

**MSc:** Entry to the MSc by dissertation is by successful completion of the Postgraduate Diploma and invitation.

Entry to the one-year MSc normally requires an undergraduate degree and some experience in genealogical (or other relevant) research.

The course is delivered online, so you will require computer access at home. You should be familiar with the use of computers in genealogy and the course is standardised on Microsoft Windows. You will also need to subscribe or pay for certain online databases and services.



## Safety and Risk Management

MSc/PgDip/PgCert (part-time online distance learning)

### Why study this programme at Strathclyde?

- Designed for health and safety practitioners already working in the field
- Professionally recognised by the Institution of Occupational Safety and Health
- Flexible progression routes

### Course Structure

#### Compulsory Classes

- Benchmarking Safety and Risk Management
- Assessing Hazards, Risks and Dangers
- Optimising Safety and Risk Management
- Psychology of Workplace Activities
- Ergonomic Factors in Work Activities
- Corporate Risk Management
- Methods of Professional Enquiry

#### Masters Students Only

- Research project and dissertation

### Entry Requirements

**PgCert:** Foundation-level certificate in occupational health and safety and a university degree (or equivalent preparation for postgraduate study). Relevant work experience will also be taken into account.

**PgDip:** Successful completion of the University of Strathclyde Certificate in Safety and Risk Management. Applicants who have gained equivalent academic qualifications at PgCert level will be accepted on to the Diploma, subject to certain conditions.

**MSc:** Direct entry to the MSc is not available.

## Safety and Risk Management Leadership

PgCert (part-time online distance learning)

### Why study this programme at Strathclyde?

- Gain an understanding of leading, managing and implementing safety and risk management systems
- Flexible tailored programme
- Choose classes to meet the needs of CPD criteria
- Opportunity to complete individual classes

### Course Structure

#### Classes

- Safety and Risk Management – key concepts
- Legislation and Safety Policy: international and local perspectives
- Safety Culture, Behaviour and Human Factors
- Accident and Incident Investigation
- Risk Assessment Methodologies
- Task-based Risk Assessment, Management and Control
- Process Safety and High Risk Environments
- Emergency Planning, Public Safety and Working with External Agencies
- Occupational Exposure and Health Hazards
- Risk Management in Various Settings
- Corporate Risk Management and Safety Audit
- Safety and Risk Management Case Study

### Entry Requirements

Admission to the programme is determined by both academic and work experience criteria.

Applicants should normally hold a recognised university degree or equivalent. Applicants without the relevant qualifications will be assessed for admission on the basis of their portfolio of courses undertaken, accreditation of prior learning and relevant work experience.

Students who successfully complete the Postgraduate Certificate in Safety and Risk Management Leadership may then consider entry to the Postgraduate Diploma in Safety and Risk Management followed by the MSc.

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# School of Government and Public Policy

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## RESEARCH DEGREES

MPhil, PhD

### Contact for Research Degrees

e: hass-postgrad@strath.ac.uk

## TAUGHT COURSES

International Relations  
International Relations, Law and Security (in collaboration with the Law School)  
Political Research  
Public Policy

### Contact for Taught Courses

e: hass-pgt-enquiries@strath.ac.uk

The School of Government and Public Policy has a long history of international research excellence. The quality of our research is recognised internationally – for example, the German Centre for Higher Education Development (CHE) lists the School as part of an ‘Excellence Group’ in political science.

We are one of the founding members of the European Consortium for Political Research, the largest organisation of its kind in European political science.

We have a strong research culture that focuses on individual and team-based research. We host three research centres:

- European Policies Research Centre
- Centre for Elections and Representation
- Centre for the Study of Public Policy

Our research is supported by grants from a range of funding bodies, including research councils, national governments and international bodies, such as the OECD and the EU.

### Research Activities

The research activities of the School are grouped within four broad interlocking priority areas:

#### Elections and Representation

The School has a strong track record in the study of voting behaviour, political attitudes, social media, political behaviour and political parties, and is one of the leading centres of quantitative political science in the UK.

Staff have recently been engaged in a number of major government and research council-funded projects including:

- Public attitudes on the EU referendum and on Scotland’s independence referendum and broader British and Scottish social attitudes
- The impact of social media on attitudes towards Scottish independence
- A global examination of how corruption affects political participation, trust and popular support for government
- A comparative examination of the attitudes, backgrounds and experiences of parliamentary candidates
- The impact of cohesion policy on EU administrative capacity building in Europe
- Maximising synergies between European Structural and Investment Funds and other EU Instruments
- Energy saving innovations and economy-wide rebound effects
- Impacts of policy changes on climate change modelling
- The political economy of growth and institutional reform

#### Public Policy

In addition to the public policy expertise of the European Policies Research Centre, researchers in the School analyse the conditions that contribute to policy success, policy learning and policy transfer, EU policy-making, public policy in post-devolution Scotland and the territorial impact of public policy.

#### Governance and Institutions

The School has an established international profile in the study of parliaments in Scotland, the UK, and Europe. Staff also specialise in the study of Youth Parliaments, the European Commission and EU policy-making, multi-level governance and devolution, and the politics of nationalism, regionalism and localism.

#### International Politics

In addition to the extensive expertise in EU policies and politics and that in South-Eastern Europe politics, West European politics and German politics, there is a rapidly expanding expertise in international relations within the School. This includes international relations, war, terrorism and conflict, human rights, economy and security, international public policy, international institutions and global governance, international security, international law, Asian and US security, the international politics of Asia, the role of NGOs in international relations, the politics of the anti-globalisation movement, constructivist theories of security, feminist theory, and Chilean politics.



## International Relations

MSc

### Why study this programme at Strathclyde?

- Gain grounding in the analysis of international relations
- Combine training in different theoretical and methodological approaches
- Examine the theories and research designs for the study of conflict, peace, security and cooperation

### Course Structure

The course comprises compulsory and optional classes and a research project dissertation.

#### Compulsory Classes

- International Institutions and Regimes
- Debating International Relations Theory
- Principles of Research Design
- Contemporary International Relations

#### Optional Classes

Students also choose two optional classes. The range of classes will normally include:

- Contesting Global Governance
- Feminism and International Relations
- European Governance
- European Political Economy
- Contemporary Security Challenges and Responses
- Law of the World Trade Organisation
- International Environmental Law
- Global Health, Rights and Development
- Qualitative Methods
- Quantitative Methods 1
- Quantitative Methods 2

### Course Duration

12 months full-time; 24 months part-time

### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in social science.

## International Relations, Law and Security

MSc/LLM

### Why study this programme at Strathclyde?

- Learn alongside students from other disciplinary backgrounds
- Focus on contemporary policies rather than traditional areas of concern
- Benefit from a unique multidisciplinary experience

### Course Structure

The course comprises compulsory and optional classes and a research project dissertation. LLM students may apply to undertake a field dissertation within a governmental or non-governmental organisation with an international focus, either in the UK or overseas.

#### Compulsory Classes

- Contemporary Security Challenges and Responses
- Principles of Research Design (MSc) OR Legal Research Methods and Skills (LLM)

#### Optional Classes

- Contemporary International Relations
- Comparative Public Policy
- European Human Rights Law
- International Human Rights Law
- Quantitative Methods 1
- Terrorism and the Law
- Human Rights Law in Comparative Perspective
- Human Rights Protection in the UK
- Privacy, Crime and Security
- Qualitative Methods
- Contesting Global Governance
- International Institution and Regimes

### Course Duration

12 months full-time; 24 months part-time

### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in Law or Political Science/International Relations, or related degrees.

## Maureen Saina

### MSc Public Policy

I was looking for an interactive policy course that provided expertise in dealing with tangible issues in society through interpretation and analysis, and my online search for the best school in public policy led me to Strathclyde.

The programme is facilitated by renowned scholars who are proficient in their field. Their vibrant and open nature makes seminars fun, interactive and informative. The curriculum is designed to enable students to examine real policy issues regardless of their diverse backgrounds

The programme has sharpened my analytical, writing and research skills and developed my curiosity towards global policy issues. As a legal practitioner working for the Government of Kenya, I look forward to applying my skills within a policy context, at corporate and national level.



## Political Research

MSc

### Why study this programme at Strathclyde?

- Develop skills in empirical political science
- Explore different methodological approaches and their application to real-life political problems
- Gain transferable employability skills in research design

### Course Structure

The course comprises compulsory and optional classes and a research project dissertation.

#### Compulsory Classes

- Principles of Research Design
- Qualitative Methods
- Quantitative Methods 1
- Quantitative Methods 2

#### Optional Classes

Students also choose two optional classes. The range of classes will normally include:

- European Governance
- European Political Economy
- Policy Analysis
- Comparative Public Policy
- International Institutions and Regimes
- Contesting Global Governance

### Course Duration

12 months full-time; 24 months part-time

### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in social science.

## Public Policy

MSc

### Why study this programme at Strathclyde?

- Explore various conceptual and methodological tools and their connections to real-world problems
- Gain a range of useful research and analysis skills
- Option to specialise in European and international public policy

### Course Structure

The course comprises compulsory and optional classes and a research project dissertation.

#### Compulsory Classes

- Policy Analysis
- Comparative Public Policy

In addition, two classes are chosen from the following:

- Principles of Research Design
- Qualitative Methods
- Quantitative Methods 1
- Quantitative Methods 2

#### Optional Classes

Students also choose two optional classes. The range of classes will normally include:

- European Governance
- European Political Economy
- Contesting Global Governance
- International Institutions and Regimes
- Principles of Research Design (if not chosen from list above)
- Quantitative Methods 1 (if not chosen from list above)
- Quantitative Methods 2 (if not chosen from list above)
- Qualitative Methods (if not chosen from list above)

### Course Duration

12 months full-time; 24 months part-time

### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in social science.

## School of Humanities

### RESEARCH DEGREES

MPhil, PhD  
MRes Creative Writing/English/Journalism/History

### Contact for Research Degrees

e: hass-postgrad@strath.ac.uk

### TAUGHT COURSES

Business Translation and Interpreting  
Digital Journalism  
Literature, Culture and Place  
Health History  
Historical Studies

### Contact Taught Courses

e: hass-pgt-enquiries@strath.ac.uk

The School of Humanities is a community of researchers, teachers, students and support staff working together on some of the most interesting and exciting issues in historical and contemporary culture. The quality of our research has a strong national and international reputation.

Our undergraduate and postgraduate courses cover a wide range of areas, from the teaching of high-level skills in languages, through advanced practical study in creative writing and journalism, to research-led courses at the cutting edge of their academic disciplines in the study of history, literature, language, and culture.

The School is home to the following centres:

### Centre for the Social History of Health and Healthcare

A collaborative research group involving historians and students from the University of Strathclyde and Glasgow Caledonian University; activities focus on the way in which medicine, medical science and healthcare systems have developed over time and have come to shape our contemporary experience.

### Language Learning Centre

French, Spanish, Italian and English as a Foreign Language are taught by staff within the Language Learning Centre. A key feature of these language classes is their emphasis on high-level professional skills, such as making presentations, writing reports, interpreting and translating into English, all of which prepare students for a wide range of future careers. These skills are taught through innovative teaching methods using modern equipment available in the Language Centre as well as a web-based learning environment.

### Scottish Oral History Centre

Since 1995, the Scottish Oral History Centre (SOHC) has been involved in a wide range of teaching, research and outreach activities designed primarily to encourage the use of 'best practice' oral history methodology in Scotland. There are several current Masters and PhD students who incorporate oral history interviewing into their research methodologies in history at Strathclyde.

The Centre has developed a strong profile in Scotland and has growing international links. A transatlantic collaborative relationship is being established with the Centre for Oral History and Digital Storytelling (COHDS), University of Concordia, Montreal, Canada, where a number of our staff hold Research Affiliate status. The Director of COHDS, Professor Steven High, is the first SOHC visiting Professor.

### Research Areas

- Scotland and the world
- Peace, conflict and identity in the modern world
- Science, technology and medicine
- Oral history
- Literary Linguistics
- Literature, Culture and Place
- Renaissance

## MRes Programmes in Humanities

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### Why study this programme at Strathclyde?

- Combine research and instructional classes
  - Gain key research skills, experience and training
  - Study opportunities across a wide spectrum of subjects
  - Opportunity to progress to a PhD programme
  - Benefit from the guidance of an academic supervisor
- 

The MRes (Masters by Research) combines research in a dissertation and instructional classes, with an emphasis on providing basic research skills, experience and training. It is offered across a wide spectrum of subjects. The MRes (and MPhil) are independent postgraduate degrees and can serve as stepping-stones to the PhD programme. The MRes degree provides an alternative entry-point to academic research for those who are not yet sure what topic they wish to research, or who require training in new skills before they can embark on doctoral work.

#### Course Duration

12 months full-time; 24 months part-time

#### MRes Entry Requirements

Normally a first-class or upper second-class Honours degree (or overseas equivalent) in the relevant or appropriate related subject.

#### MRes Creative Writing

This course enables students to work on a substantial piece of imaginative writing with a successful, published author for one year (full-time) or two years (part-time), specialising in one genre, such as poetry, fiction or imaginative non-fiction. Working closely with one supervisor rather than with a group means the course can adapt to your personal interests.

The main element of the MRes is a dissertation of around 30,000 words, which includes a critical reflection on the creative process of around 5,000 words. The remainder of the course comprises a research methods class which teaches skills such as how to search for information, make presentations and apply for grants.

#### MRes English

Students wishing to undertake the MRes in English can study in a number of areas, related to the research specialisms of academic staff. Prospective students should consult individual staff research profiles and are encouraged to contact potential supervisors.

Our areas of research strength include literature, culture and place, Canadian and Scottish studies, Renaissance studies, literary linguistics, digital humanities, animal studies, life writing, print cultures and war studies.

Students prepare a 30,000 word dissertation and undertake the class Research Skills in Literature, Culture and Communication to equip them for advanced academic research.

#### MRes Journalism

Students wishing to undertake an MRes in Journalism should consult the wide-ranging interests of academic staff, which include media ethics, digital storytelling, media reporting of bereavement, cyberbullying, social media, health and science communication, gender and politics, media and national identity and investigative journalism. Students prepare a 30,000 word dissertation and undertake a research training class to equip them for advanced academic research.

## Business Translation and Interpreting

MSc/PgDip

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### Why study this programme at Strathclyde?

- Gain practical experience through industry-based activities on a skill-focused course
  - Learn to use machine translation and industry-standard computer-assisted translation software
  - Focus on translating in a range of business settings
- 

#### Course Structure

##### Compulsory Classes

- Text Typology and Translation
- Translation and Interpreting Studies
- Professional Interpreting Practice
- Translation and Language Technology
- Interpreting for Business and Commerce
- Business Translation

##### Masters Students Only

- Dissertation or Translation/Interpreting Project

#### Course Duration

MSc: 12 months full-time

PgDip: 9 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent. An academic background in English or translating is not required, however, knowledge of business and economics is desirable.

Suitable applicants are required to attend an aptitude test prior to admission, comprising a written translation test, followed by an oral interview to further demonstrate your language proficiency. The oral interview can be conducted face-to-face or online according to circumstances.

## Digital Journalism

MLitt/PgDip

### Why study this programme at Strathclyde?

- Gain the skills to produce multimedia news and features
- Learn how to devise, launch, produce and market an online publication
- Work in the University's simulated news environment and report externally using mobile media

### Course Structure

#### Compulsory Classes

- Multimedia Journalism
- Entrepreneurial Journalism
- Producing Media
- Scots Law for Journalists
- Media Ethics

#### Optional Class

- Journalism and Society

#### Placement

Four-week journalism placement

#### Masters Students Only

- Academic Dissertation or Production Dissertation

#### Course Duration

MLitt: 12 months full-time; 24 months part-time

PgDip: 9 months full-time; 21 months part-time

#### Entry Requirements

Honours degree, or overseas equivalent, or professional experience demonstrating ability to study at Masters level. Experience of student journalism, a media work placement, freelance work or professional journalism is expected.

## Literature, Culture and Place

MLitt/PgDip/PgCert

### Why study this programme at Strathclyde?

- Opportunity to take your studies to a more specialised level or in a new direction
- Unique course in the UK
- Benefit from the guidance of a supervisor who is an expert in the field

### Course Structure

#### Compulsory Classes

- Research Skills

#### Optional Classes (five to be chosen)

- The Discovery of Scotland: the Sublime and the Picturesque
- Visions of Suburbia: Interdisciplinary Representations, 1850-2000
- British Places: Literature 1880-1950
- Post-colonial Canadian Literature
- Contemporary Scottish Cultural Studies
- Travellin' Blues: Literature, Politics and Displacement
- Romanticism and the South West
- Women Writers of the Anglo and Italospheres in the Long 19th Century

#### Masters Students Only

- Dissertation

#### Course Duration

MLitt: 12 months full-time; 24 months part-time

PgDip: 9 months full-time; 21 months part-time

PgCert: 4 months full-time; 9 months part-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in English Literature or a related subject.

## George Tah Meh

MLitt Digital Journalism

With the changing face of journalism in this age of social and digital media platforms, the programme offered me the digital media skills I need to enhance my knowledge in content production and storytelling, using different tools and platforms. I have developed further journalistic skills and multimedia storytelling technical abilities, as well as entrepreneurial and creative industry business knowledge.

I like the practical aspects of the course and the staff are very supportive. The lecturers are experienced journalists with first-hand knowledge of the sector.

My plan is to run my own media company with an emphasis on journalism and new media. My degree is providing the experience and connection to the industry I need to prepare for the future.



## Health History

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Explore the origins and impacts of our modern health experiences and expectations
- Examine the impact of warfare on medical technologies
- Suitable for those from humanities, social science and health science backgrounds

### Course Structure

#### Compulsory Classes

- Sources, Skills and Methods for Historians 1
- Sources, Skills and Methods for Historians 2

#### Optional Classes (four to be chosen)

- Health and Healthcare in the Long 19th Century
- Pharmaceuticals, Ethics and Health, 1800-1980
- Governing Highs and Health: History and the Control of Drugs, c1800-c1945
- Work and Occupational Health in the 20th Century: Comparative Perspectives
- Food and Health in the West During the 20th Century
- The Politics of Health in 20th-century Britain
- Child Health and Industrialisation, c1750-1870
- Medicine and Warfare, 1800-2000

#### Masters Students Only

- Dissertation

#### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

**PgCert:** 4 months full-time; 9 months part-time

#### Entry Requirements

First- or second-class Honours degree or overseas equivalent, in history or a related discipline.

## Historical Studies

MSc/PgDip

### Why study this programme at Strathclyde?

- Flexible curriculum with a wide choice of classes
- Become equipped with key generic research skills
- Choose to study thematic, historiographical or theoretical topics across a broad chronological and geographical range

### Course Structure

#### Compulsory Classes

- Sources, Skills and Methods for Historians 1
- Sources, Skills and Methods for Historians 2

#### Optional Classes

- Palaeography, c1500-c1800
- Britain, France and the United States, 1945-1958: Diplomacy, Strategy and Alliance
- Transatlantic Influences: the US and Europe post 1958
- Nationalism and Nation-states in the Arab Middle East: 1900-1945
- Plantations by Land and Sea, 1540-1700
- Pharmaceuticals, Ethics and Health, 1800-1980
- Segregation, Migration and War: African-Americans, 1910-1930
- The Patriarchal Family in Early Modern Society
- Governing Highs and Health: History and the Control of Drugs
- Work and Occupational Health in the 20th Century
- Scotland and Ulster in the Early Modern North Atlantic World
- The Lordship of the Isles
- Food and Health in the West During the 20th Century
- Themes in the History of Health and Colonial Medicine in South Asia
- War, Sacrifice and the Nation in Europe, 1789-1918
- Choice of up to 20 credits from other Faculty level 5 classes

#### Masters Students Only

- Dissertation

#### Course Duration

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

#### Entry Requirements

First- or upper second-class Honours degree in history, or overseas equivalent.

## Law School

### RESEARCH DEGREES

MPhil, PhD

#### Contact for Research Degrees

e: hass-postgrad@strath.ac.uk

### TAUGHT COURSES

Climate Change Law and Policy

Construction Law

Criminal Justice and Penal Change

Human Rights Law

International Economic Law

International Law and Sustainable Development

Internet Law and Policy/IT and Telecommunications Law

Law and Finance

Mediation and Conflict Resolution

International Relations, Law and Security (in collaboration

with the School of Government and Public Policy, see

pg 80 for course description)

### PRE-QUALIFICATION LAW COURSES

Diploma/LLM in Professional Legal Practice

LLB Law Graduate Entry

LLB Law (Scots & English) Graduate Entry

#### Contact for Taught Courses

e: hass-pgt-enquiries@strath.ac.uk

Strathclyde Law School has established a reputation of more than 50 years for quality teaching and research. We offer flexible learning including options for part-time study, accelerated study and distance learning.

The Law School is consistently ranked as one of the UK's leading Law Schools and demonstrates the highest standards in both the quality of its teaching and research. In the 2014 Research Excellence Framework we were ranked joint 1st in Scotland and also placed among the top 15 UK Law Schools, based on Times Higher Education intensity rankings that take account of the proportion of eligible staff submitted. The School was also ranked 14 out of 97 Law Schools in the UK in the 2017 Complete University Guide. These results are testament to the high-quality, research-led teaching that is integral to our students' learning experience.

We host Scotland's biggest Law Clinic, which is run by an Executive Committee of students and chaired by a Clinic Director. The Clinic provides a 'real life' learning experience for students, enhancing their professional skills. It is an invaluable service to members of the public who do not qualify for legal aid but cannot afford professional legal fees.

### Research Areas

Research in Law covers a broad spectrum, including doctrinal and theoretical research, and a particular strength in socio-legal research. Research clusters are focused around:

#### Access to Justice and the Provision of Legal Services

Our researchers have expertise in many different areas and are currently working on a number of projects.

#### Constitutional and Administrative Law

These are the areas of law which establish and regulate the institutions of government within states.

#### Dispute Resolution

We conduct research in issues including mediation and negotiation, redress mechanisms and public services, and international dispute resolution.

#### Environmental Law and Governance

Environmental Law and governance are at the heart of our research which is carried out through individual and collective projects.

#### Human Rights

Socio-economic rights in the contexts of immigration and asylum, child care and protection in the context of the right to respect for private and family life, interpretation and application of the prohibition of torture, inhuman and degrading treatment, and human rights dimensions of climate change are among the many topics researched by our experts.

#### Law, Crime and Justice

The Strathclyde Centre for Law, Crime and Justice brings together expertise in the study of law, crime and criminal justice.

#### Law Technology and Regulation

This area looks at issues of regulation within the context of existing and emerging technologies.

#### Scottish Private Law

Our academics review areas such as family law, bio-ethics and personhood, child law and child protection, sexual orientation and same-sex families, and history of Scots private law.

The Law School hosts several centres of excellence, including the Centre for Law, Crime and Justice, the Centre for Professional Legal Studies and the Centre for the Study of Human Rights Law.

## Climate Change Law and Policy

LLM/PgDip/PgCert

### Why study this programme at Strathclyde?

- Develop specialised knowledge in this growing field of law and policy
- Flexibility to continue in your professional role
- Study alongside professionals from across the globe

### Course Structure

The programme is delivered through a combination of distance learning and two compulsory weeks of seminar-based learning.

#### Compulsory Classes

- Climate Change and International Law
- Comparative Climate Change Law
- Research Methods

#### Optional Classes

- Equity and Adaptation
- Carbon Markets and Climate Finance
- Forests, Land Use and Climate Change
- Sustainable Energy Governance
- Climate Change and Litigation
- Climate Law and the Global Economy

#### Masters Students Only

- Dissertation

#### Course Duration

**LLM:** 12 months full-time; up to 24 months part-time

**PgDip:** 9 months full-time; up to 21 months part-time

**PgCert:** 8 months part-time

#### Entry Requirements

First- or upper second-class Honours degree (or overseas equivalent) in any discipline related to Climate Change Law and Policy; previous study with some law content would be useful. Applications are also welcome from candidates with significant high-calibre industry or government experience.

## Construction Law

LLM/PgDip/PgCert

### Why study this programme at Strathclyde?

- Construction professionals develop knowledge of the law required for practical application
- Lawyers gain legal expertise relating to management of construction projects
- Full-time and part-time study options

### Course Structure

Some classes are taught by way of webcast lectures, others are taught in a traditional face-to-face format. All core construction law classes and the compulsory class in Legal Research are taught in the evenings (normally 6pm - 8pm) or by webcast. Many optional classes are also taught in the evening, with some are available during the day.

#### Compulsory Classes

- Context of Construction (for Law graduates)
- Legal Process and the Law of Contact and Other Obligations (for non-Law graduates)
- Law of the Construction Industry
- Law and Practice of Construction Management
- Construction Dispute Resolution
- Legal Research
- Arbitration

Students also select one optional class from other Law School Masters programmes.

#### Masters Students Only

- Dissertation

#### Course Duration

**LLM:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 18 months part-time

**PgCert:** 4 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in a relevant discipline. Where an applicant has a lower second-class Honours degree in a relevant discipline, admission may be possible with suitable professional qualifications and/or considerable appropriate experience.

## Criminal Justice and Penal Change

LLM/MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Draw on a range of disciplinary approaches, to develop a rational and just response to crime
- Full-time, part-time and evening study options
- Learn from world experts in the fields of policy and practice

### Course Structure

#### Compulsory Classes

- Criminal Justice and Penal Decision-making
- Punishment and Processes of Penal Change
- Research Methods (LLM only)

#### Optional Classes

- Childhood and Crime
- Surveillance, Technology and Control
- Offender Supervision and Management
- Restorative Justice
- Homicide

Participants may also choose classes from other Law School Masters programmes, such as Human Rights Law, Internet Law and Policy, Mediation and Conflict Resolution.

#### Masters Students Only

- Dissertation

#### Course Duration

**LLM/MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

**PgCert:** 8 months part-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in law, one of the social sciences, business or humanities. Entry may be possible with other qualifications and/or experience.

## Human Rights Law

LLM/PgDip/PgCert

### Why study this programme at Strathclyde?

- Learn from academic experts and leading legal and public sector practitioners
- Opportunity to undertake a 12-week field dissertation within a government or non-government organisation with an international focus, in the UK or overseas

### Course Structure

#### Compulsory Classes

- European Human Rights Law
- International Human Rights Law
- Human Rights in Comparative Perspective
- Human Rights Protection in the UK
- Legal Research (LLM/PgDip)

#### Optional Classes

- Surveillance, Technology and Control
- The World Trading System: Law and Policy
- international Environmental Law

Students may also choose a class from other Law Masters programmes and/or relevant classes from other non-law Masters programmes.

#### Masters Students Only

- Dissertation or field dissertation

#### Course Duration

**LLM:** 12 months full-time; 24 months part-time

**LLM with field dissertation:** 15 months full-time; 30 months part-time

**PgDip:** 9 months full time; 18 months part time

**PgCert:** 4 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in any discipline (some law content is recommended). Entry may be possible with other qualifications, especially where the applicant has relevant work experience.



## International Economic Law

LLM/PgDip/PgCert

### Why study this programme at Strathclyde?

- Explore how international economic law deals with real-world challenges
- Opportunity to undertake a 12-week field dissertation within a government or non-government organisation with an international focus, in the UK or overseas

### Course Structure

#### Compulsory Classes

- Research Methods (LLM only)
- The World Trading System: Law and Policy

#### Optional Classes

- Comparative Law of Obligations
- International Environmental Law
- E-Commerce
- Comparative Company Law and Regulation
- Competition Law and Policy in the EU
- UK and EU Environmental Law
- Intellectual Property
- Digital Copyright Law and Policy-making
- International Trade Theory, Policy and Institutions
- Telecommunications Law

Students may also choose up to two classes from other Law Masters programmes and/or relevant classes from non-law Masters programmes.

#### Masters Students Only

- Dissertation or field dissertation

#### Course Duration

LLM: 12 months full-time; 24 months part-time  
LLM with Field Dissertation: 15 months full-time;  
30 months part-time  
PgDip: 9 months full-time; 21 months part-time  
PgCert: 4 months full time; 8 months part-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in a related discipline (some law content is recommended). Entry may be possible with other qualifications, especially where the applicant has relevant work experience.

## International Law and Sustainable Development

LLM/PgDip/PgCert

### Why study this programme at Strathclyde?

- Suitable for graduates who intend to work in the international development sector
- Opportunity to undertake a 12-week field dissertation within a government or non-government organisation with an international focus, in the UK or overseas

### Course Structure

#### Compulsory Classes

- Research Methods (LLM only)
- The World Trading System: Law and Policy
- International Environmental Law

#### Optional Classes

- Comparative Law of Obligations
- Business and Human Rights
- Comparative Company Law and Regulation
- Competition Law and Policy in the EU
- Legal Process and the Law of Contract and Other Obligations (for non-lawyers, available by webcast)
- UK and EU Environmental Law
- Intellectual Property
- Global Water Policy
- International Trade Theory, Policy and Institution
- Fundamentals of Environmental Forensics
- Energy Resources and Policy

Students may also choose up to two classes from other Law Masters programmes and/or relevant classes from other non-law Masters programmes.

#### Masters Students Only

- Dissertation or field dissertation

#### Course Duration

LLM: 12 months full-time; 24 months part-time  
LLM with Field Dissertation: 15 months full-time;  
30 months part-time  
PgDip: 9 months full-time; 21 months part-time  
PgCert: 4 months full time; 8 months part-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in a related discipline (some law content is recommended). Entry may be possible with other qualifications, especially where the applicant has relevant work experience.

## Internet Law and Policy/IT and Telecommunications Law

LLM/PgDip/PgCert (full-/part-time, distance learning)

### Why study this programme at Strathclyde?

- Gain a dual-named qualification which is recognised internationally
- Experience areas of legal specialisation with international reach and strong employment prospects
- Full-time, part-time and distance learning study options

### Course Structure

The course structure and class choices are almost identical for both pathways; for the IT and Telecommunications Law pathway, it is necessary to take the class Telecommunications Law and also to write a dissertation in a telecoms-related subject.

### Compulsory Class

- Legal Research (LLM and PgDip only)

### Optional Classes

- Internet Governance (online learning)
- Privacy, Crime and Security
- Telecommunications Law (compulsory for IT and Telecommunications pathway)
- E-Commerce
- International Intellectual Property (online learning)
- Intellectual Property Law
- Domain Name Regulation (online learning)
- Cybercrime

### Masters Students Only

- Dissertation

### Course Duration

**LLM:** 12 months full-time; 24 months part-time; 24 months distance learning

**PgDip:** 9 months full-time; 21 months part-time; 24 months distance learning

**PgCert:** 8 months part-time; 12 months distance learning

### Entry Requirements

A good Honours degree, or overseas equivalent, in Law or a degree with a substantial legal content. We also recognise other qualifications, especially where the applicant's work experience is in a field relevant to the subject of the course.

## Law and Finance

LLM

### Why study this programme at Strathclyde?

- Benefit from interdisciplinary teaching by the Strathclyde Business School and the Law School
- Gain insight into the rapidly-changing area of regulation
- Apply to work in the Small Business Law Unit within the student-run Law Clinic

### Course Structure

For those without a background in accounting and finance, there will be an optional, non-credit bearing class available to provide all you need to know in order to understand the core classes.

### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- International Banking Law
- Advanced Corporate Finance and Applications
- Financial Regulation and Compliance
- Law Project

### Optional Law Classes

- Contemporary Employment Relations
- Labour Law in the Global Economy
- Comparative Company Law
- World Trade Law
- UK and EU Environmental Law
- Law of International Business
- International Investment Law
- E-Commerce
- Arbitration Law
- Intellectual Property Law

### Course Duration

12 months full-time

### Entry Requirements

First- or upper second-class Honours degree in Law, Accounting, Finance or Banking, or overseas equivalent. Entry may be possible with other qualifications, especially where the applicant has relevant and substantial work experience.

## Mediation and Conflict Resolution

LLM/MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Accredited by the Scottish Mediation Network
- First graduate-level programme in Scotland and the only course of its kind in the UK
- Gain practical experience through our Mediation Clinic
- Full-time, part-time /distance learning study options

### Course Structure

Students may graduate with LLM or MSc depending on the topic of their final dissertation.

### Compulsory Classes

- Theory and Principles of Conflict Resolution
- Mediation in Practice
- Legal Research (LLM and MSc only)

### Optional Classes (three to be chosen)

- Mediation, the Law and Policy
- Negotiation
- Employment Mediation
- Conflict Resolution and the State
- Legal Process and the Law of Contract and Other Obligations

Students may also choose a class from other Law School Masters programmes.

### Masters Students Only

- Dissertation

### Course Duration

**LLM/MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

**PgCert:** 8 months part-time

### Entry Requirements

A degree, or overseas equivalent, and/or relevant practical experience.

## Professional Legal Practice

Diploma (full-time/part-time)

### Why study this programme at Strathclyde?

- The Diploma meets the requirements of the Law Society of Scotland's Professional Education and Training Stage
- Bridge the gap between university and the workplace
- Gain knowledge of relevant legal principles within a practical context

### Course Structure

The course starts with a week-long Foundation Skills course for both full-time and part-time students which consists of lectures/demonstrations and workshops in effective communications, case analysis and problem-solving, interviewing, legal drafting, negotiation, advocacy and legal ethics.

### Compulsory Classes

- Professional Practice and Ethics
- Business and Financial Awareness
- Conveyancing
- Private Client
- Civil Litigation
- Criminal Litigation
- Personal Injury Claims Handling

### Optional Classes (five to be chosen)

- Advanced Criminal Advocacy
- Advanced Private Client
- Business Accounting for Legal Professionals
- Commercial Contracts and IP
- Commercial Conveyancing
- Company Law
- Employment Law in Practice
- Family Business
- Family Law
- Mediation and Mediation Advocacy
- Practical Public Administration
- Work-based Learning Module in Legal Practice

### Course Duration

Nine months full-time; 24 months part-time

### Entry Requirements

LLB degree (or equivalent) which meets the requirements and outcomes of the Law Society of Scotland's foundation programme.

## Professional Legal Practice

LLM (distance learning only)

### Why study this programme at Strathclyde?

- Build on previous study and focus on a particular area of professional legal practice
- Gain a deeper knowledge and understanding of a particular area of professional legal practice
- Full-time flexible distance learning study

### Course Structure

The course is only available full-time on a flexible, distance-learning basis. Students will normally receive credit for approved prior learning (from their Diploma studies) which will count towards the LLM award. Students therefore, typically complete a compulsory Research Methods class (which is fully online) and a 15,000-word dissertation on their chosen area of legal practice.

### Compulsory Class

- Legal Research Skills and Methods

### Course Duration

12 months full-time

### Entry Requirements

First- or upper second-class LLB Honours degree and a qualifying Postgraduate Diploma in Legal Practice/ Professional Legal Practice from a Scottish university.

Where demand for places exceeds availability, performance of applicants during their studies (ie generally the relative performance of applicants in specified LLB classes and over the duration of their Diploma studies) will be taken into consideration.

## Law (Graduate Entry)

LLB (full-time & part-time)

### Why study this programme at Strathclyde?

- Accreditation from the Law Society of Scotland
- Accelerated two-year programme for graduates from other disciplines
- Develop your legal skills as a member of Scotland's largest student-run Law Clinic

### Course Structure

The following is a typical course of study incorporating compulsory classes which meet the requirements of the Law Society of Scotland's foundation programme for progression to the Diploma in Professional Legal Practice. For more information on the structure of the part-time course, please contact the Law School.

### Compulsory Classes

- (Scots) Domestic Relations
- (Scots) Criminal Law
- Public Law 1 & 2 (Scots)
- Legal Methods
- Law and Society
- Legal Process
- Voluntary Obligations: Contract and Promise
- (Scots) Property, Trusts and Succession
- (Scots) Involuntary Obligations: Delict and Unjust Enrichment
- Commercial Law
- EU Law

### Clinical LLB

Scots Law students who apply and gain entry to the Law Clinic are eligible to transfer to the Clinical LLB in which they use their clinical training and cases to develop the skills and ethical values required for legal practice. They take all the LLB classes (replacing Law and Society with Legal Theory), along with four compulsory clinical classes and gain credit for all their work undertaken in the Clinic.

### Course Duration

**Full-time:** two years (Pass degree); three years (Honours)

**Part-time:** four years (graduate entrant); five years (adult returner)

### Entry Requirements

Second-class Honours or Pass/Ordinary degree. Applicants who do not meet these requirements may also be considered. Applicants whose first language is not English must possess a recent English qualification, eg IELTS 7.0 or equivalent.

## Law (Graduate Entry Scots & English)

LLB

### Why study this programme at Strathclyde?

- Undertake a dual-qualifying law degree recognised in England/Wales, Northern Ireland and Scotland
- Law firms value graduates with knowledge of more than one legal jurisdiction
- Two-year programme for graduates of other disciplines

### Course Structure

Students on this degree follow broadly the same curriculum as students on the Graduate Entry Scots Law degree (see left), with the addition of English law classes, some of which are taken on a concentrated basis in the summer between Years 1 and 2. The Clinical LLB stream is not available to Scots & English law students.

### Summer School Classes

- English Law of Tort
- English Law of Contract and Restitution
- English Law of Property and Land

### Year 2 Compulsory Classes

Students take the same list of classes as for Scots Law (see left), replacing the optional choice with:

- English Criminal Law and Evidence
- English Law of Equity and Trusts

Subject to satisfactory performance, students can continue to a third year to complete an Honours degree.

### Clinical LLB

Scots Law students who apply and gain entry to the Law Clinic are eligible to transfer to the Clinical LLB in which they use their clinical training and cases to develop the skills and ethical values required for legal practice. They take all the LLB classes (replacing Law and Society with Legal Theory), along with four compulsory clinical classes and gain credit for all their work undertaken in the Clinic.

### Course Duration

Pass degree: two years; Honours degree: three years

### Entry Requirements

Second-class Honours degree in any discipline. Lower, or alternative qualifications will be considered on a case-by-case basis. Applicants whose first language is not English must possess a recent English qualification, e.g. IELTS 7.0 or equivalent.

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# School of Psychological Sciences and Health

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## RESEARCH DEGREES

MPhil, PhD  
DEdPsy Educational Psychology

**Contact for Research Degrees**  
e: hass-postgrad@strath.ac.uk

## TAUGHT COURSES

Clinical Health Psychology  
Educational Psychology  
Psychology with a Specialisation in Business  
Research Methods in Psychology  
Physical Activity in Non-Communicable Disease  
Prevention and Control

**Contact for Taught Courses**  
e: hass-pgt-enquiries@strath.ac.uk

The School of Psychological Sciences and Health focuses its research on being useful to society by employing research insights and understandings to address the problems that face society today.

We offer courses accredited/approved by the British Psychological Society, the Royal College of Speech and Language Therapists, the Health and Care Professions Council, and the British Association for Counselling and Psychotherapy.

The School provides a vibrant, friendly environment for outstanding research and teaching that brings together internationally-recognised academic staff with a diverse range of interests.

Our staff engage in research and undertake undergraduate and postgraduate teaching across four subject disciplines:

- Psychology
- Speech and Language Therapy
- Physical Activity for Health
- Counselling

## Research Areas

The four subject groups within the School have two overall research themes:

- Children and Young People (including social and cognitive development, educational psychology, child and family wellbeing, developmental disorders and disabilities)
- Health (clinical and public health interventions of many kinds across the lifespan, including research on the aetiology of disease, and on the development of improved clinical, research, and policy interventions)

Recognising that these topics often generate complex, multi-disciplinary, and global research problems, staff collaborate across the four disciplines within the School and with a wide range of colleagues internationally.

To see the full breadth of research activity within the School, potential research students are encouraged to consult individual staff profiles on our website. MPhil, PhD and DEdPsy applicants are welcome to contact staff in the School to discuss possible topics and supervision arrangements.



## Educational Psychology

DEdPsy

### Why study this programme at Strathclyde?

- Develop research skills and a critical understanding of advances in theory and practice
- The Doctorate in Educational Psychology provides Continuing Professional Development for practising educational psychologists

### Course Structure

The programme comprises two elements:

#### Professional Practice

Students produce a reflective self-evaluation report that provides evidence of personal growth in professional practice throughout the period of Doctoral study and a report from their Principal Psychologist.

For those on the 33-month programme, a portfolio of three pieces of small-scale project work carried out in practice at the level of the individual and family, the class/school and school/authority policy work must be submitted before progressing to the research proposal and Part 1 of the thesis.

#### Research

By the end of Year 1, participants are required to produce a literature review which comprises Part 1 of the thesis, and also a research proposal for the major research study. Data for the research study will be collected, analysed and written up as Part 2 of the thesis. Parts 1 and 2 together should not amount to more than 50,000 words. The thesis will be assessed by a viva examination.

#### Course Duration

24 months for Doctoral candidates who hold a two-year MSc in Educational Psychology approved by the University.  
33 months for those with a Scottish one-year MSc in Educational Psychology, or an earlier Diploma in Educational Psychology

#### Entry Requirements

You must be a practising educational psychologist during the period in which you plan to undertake the programme and your application must be supported by the Principal Educational Psychologist of the service in which you work. Published papers in professional journals, conference presentations, participation in recent research work within a psychology service and an outline research proposal identifying a provisional topic for the thesis will be an advantage.

## Clinical Health Psychology

MSc

### Why study this programme at Strathclyde?

- Combine clinical, health and neuropsychology classes with professional practice and research skills
- Consultancy project work placement
- Opportunity to take single modules as part of continuing professional development

### Course Structure

**Research Methods:** three classes covering qualitative and quantitative analyses and common experimental methods

**Applied:** Four classes covering theoretical issues and practical skills relevant to medical conditions from a clinical, health and neuropsychological perspective. Specific techniques covered include interpersonal communication, mindfulness, motivational interviewing, cognitive-behavioural therapy, health behaviour change techniques and neuropsychological assessment.

**Professional Practice and Placement:** provides students with the professional skills required in a workplace setting. Students will complete a project linked to a real-world issue in a setting, such as a pain clinic.

**Dissertation:** a 60-credit supervised research dissertation on an agreed topic related to the course themes.

#### Course Duration

12 months full-time; 24 months part-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in psychology.

Applicants whose first language is not English require IELTS 7.0.

Membership of the Protecting Vulnerable Groups Scheme or update of existing membership is required for placement work with vulnerable groups.

## Educational Psychology

MSc

### Why study this programme at Strathclyde?

- One of only two courses of this kind in Scotland, approved by the British Psychological Society
- Integration of teaching and practical work
- Undertake work placements which could be abroad

### Course Structure

Teaching takes place in the University on Mondays and Tuesdays during term-time and trainees spend Thursdays and Fridays in their long-term placements with a psychological service. Wednesdays are study days.

#### Compulsory Classes

- Frameworks for Professional Practice
- Development in Context
- Facilitating Change: Assessment and Intervention
- Research and Evaluation
- Effective Communication and Interpersonal Skills

In the first year, trainees carry out shadowing and observation, practice-based assignments and a group project. In the second year, they undertake supervised work as an educational psychologist and carry out a further project.

#### Course Duration

24 months full-time

#### Entry Requirements

First- or upper second-class Honours degree in Psychology (or an equivalent accredited conversion qualification in Psychology) which is recognised by the British Psychological Society as providing the Graduate Basis for Chartered Membership.

One to two years' experience working with children, young people, families and professional colleagues (not necessarily in teaching). Evidence of commitment to a career in educational psychology.

Entry is offered every two years, with the next intake in September 2017. Applications must be submitted between 1 August and 31 October in the year prior to entry. Interviews take place in February or March. The course is not available to international students.

## Psychology with a Specialisation in Business

MSc

### Why study this programme at Strathclyde?

- Route to Graduate Basis for Chartered Membership with the British Psychological Society.
- Gain knowledge of the core domains of psychology
- Develop an understanding of the applications of psychology to real life, particularly business contexts

### Course Structure

The programme is delivered entirely online.

#### Compulsory Classes

- Social and Developmental Psychology
- Conceptual and Historical Issues in Psychology and Individual Differences
- Psychobiology and Cognitive Psychology
- Research Design and Analyses in Psychology

#### Specialist Classes

- Organisational Psychology
- Leadership in Organisations
- Foundations of Risk
- Psychometrics in Organisations

A research project and dissertation are also undertaken.

#### Course Duration

12 months full-time/24 months part-time online distance learning

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in law, social sciences or related disciplines, or a Masters degree; in some cases a qualification deemed to be equivalent may be considered.

Lower second-class Honours degree in Psychology without Graduate Basis for Chartered Membership of the BPS, or overseas equivalent.

## Research Methods in Psychology

MSc

### Why study this programme at Strathclyde?

- Learn the skills and theory for conducting research
- Undertake a substantial research project, with one-to-one supervision
- Enhance your academic profile for doctoral funding applications or for research assistant posts

### Course Structure

#### Compulsory Classes

- Quantitative Research Methods: Research Design, Statistics and Computing
- Analysing Discourse and Interaction
- Methods in Experimental Psychology
- Software Skills: E-prime and Image Manipulation
- Practical Research Skills: Writing, Evaluating and Selling Research

Students also undertake an individual research project under the supervision of a member of staff. Supervision by active researchers with international track records is available across a wide range of topics.

### Course Duration

12 months full-time

### Entry Requirements

First- or upper second-class degree in Psychology, or overseas equivalent.

## Physical Activity in Non-Communicable Disease Prevention and Control

MSc

### Why study this programme at Strathclyde?

- Study an area in which there is an increasing and sustained demand for academic expertise
- Gain understanding of a truly global issue
- Learn alongside students from other disciplinary backgrounds

### Course Structure

#### Compulsory Classes

- Introduction to Physical Activity for Health
- Physical Activity and Mental Health
- Contemporary Debates in Physical Activity for Health
- Physical Activity with Specialist Population Groups
- Quantitative Methods
- Mind, Body and Physical Health

Students undertake an extended piece of research in a topic of their choosing, supported through a combination of individual tutorials, small group sessions and online discussion. It is anticipated that some international students may wish to complete the research project in their home country.

### Course Duration

12 months full-time

### Entry Requirements

Honours degree in a relevant discipline, or other relevant degree, eg medical degree.

## School of Social Work and Social Policy

### RESEARCH DEGREES

MPhil, PhD

### Contact for Research Degrees

e: hass-postgrad@strath.ac.uk

### TAUGHT COURSES

#### Full-time

Social Work  
Social Policy  
Social Policy (Research Methods)

#### Part-time

Advanced Residential Child Care  
Child and Youth Care Studies  
Mental Health Social Work

### Contact for Taught Courses

e: hass-pgt-enquiries@strath.ac.uk

The School of Social Work and Social Policy carries out high quality, international-level research across a broad range of theoretical and empirical areas, with strong interdisciplinary aspects to research agendas across the Faculty of Humanities & Social Sciences and the wider University. The School provides a lively postgraduate environment.

### Research Areas

The School has four main research areas:

#### Children, Young People and Families

We promote evidence-based practice and research-informed policy. Most of our researchers have a background in practice. We work with a range of funders and partners, including the Scottish Government, local authorities and related voluntary sector organisations and international partners. Many of our team are based within the Centre for Youth and Criminal Justice and the Centre for Excellence for Looked After Children in Scotland (CELCIS). Research topics include historic abuse and adults who experienced care as children; improvement in services for children and young people; marginalised youth and social inequalities; children and young people's rights; ethnic minority children; evidence-based practice and sustainable change in policy and practice.

#### Health and Wellbeing

Our research ranges from historical studies of health and morbidity and the conceptualisation of health and wellbeing to the role played by information technology in the provision of health services and the interface between health and social care. We support health and wellbeing

research and policy work within a number of centres, including the Centre for Excellence for Looked After Children in Scotland, the Centre for Youth and Criminal Justice and the Centre for the Social History of Health and Healthcare. We also play a key role in the University-wide Centre for Health Policy.

Our external partners include Scotland's Commissioner for Children and Young People and Contact a Family, a voluntary organisation supporting families with disabled children across the UK. Our international partners include the World Health Organisation and New York and Yale Universities.

Research topics include conceptualisations of wellbeing; historical changes in height, health, sickness and mortality; risk and protection in adult social work; stigma and discrimination; human rights and citizenship; health promoting palliative care; evidence-based health policy; tele-care; personal outcomes in health and social care.

#### Criminal and Social Justice

Our researchers produce applied research and consultancy on issues of criminal and social justice, penal and social policy and practice. We have strong links with the Scottish Government, Scottish Prison Service, Criminal and Youth Justice Social Work Services, and related voluntary sector and penal reform organisations. Research topics include crime and desistance; risk, regulation and reintegration; prisons, imprisonment and re-entry; punishment and penal practices; co-production in community justice; ethnicities, migration and social justice; children, young people and crime and justice; knowledge mobilisation, transfer and exchange.

#### Citizenship and Communities

Our research topics include citizens' rights, the relationship between citizenship and ethnicity and the roles played by individuals in building strong and sustainable communities. We explore the nature and definition of citizenship; the development of citizenship rights; the relationship between citizenship and social inclusion and exclusion; and the contributions made by citizens to community development. The importance of communities is reflected in our research into event legacies and the construction of smart and sustainable communities.

Research topics include disability; ethnicity, migration and welfare; multiculturalism and Muslim identity; event legacy; smart and sustainable communities; volunteering and social policy in historical and contemporary settings.

## Social Work

MSW/PgDip

### Why study this programme at Strathclyde?

- An initial qualifying programme in social work validated by the Scottish Social Services Council
- Placements of 85 days in each year of the course in a range of social work service settings
- Gain a qualification recognised outside the UK

### Course Structure

#### Year 1 Classes

- Human Development and Functioning
- The Context of Social Work
- Social Work Theory and Practice 1
- Professional Practice 1

Note: Unless otherwise exempt, students are required to pass a Certificate in ICT Competence to progress into Year 2.

#### Year 2 Classes

- The Organisational Context
- Harm, Risk, Care and Protection
- Social Work Theory and Practice 2
- Professional Practice 2

### Placements

Placements of 85 days from January to May are provided across the statutory and voluntary sectors, eg in childcare, community care and criminal justice services, hospitals, health centres and day centres, residential care, prisons and special projects for offenders.

### Course Duration

Two years

### Entry Requirements

Upper second-class Honours degree, preferably in a social science discipline but graduates in other disciplines with an understanding of social sciences are welcome. Applicants who do not have a first degree may be considered if they have extensive professional experience and can demonstrate academic ability at graduate level. A minimum of six months of directly-relevant experience in social work, social care, community work or a closely-related activity is essential.

### How to Apply

Application must be made through UCAS ([www.ucas.ac.uk](http://www.ucas.ac.uk)).

## Social Policy

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Extend your understanding of the factors which shape social needs and how societies have responded to these
- Update your existing knowledge and skills
- Enhance your research skills
- Undertake an independent research project

### Course Structure

#### Compulsory Classes

- Principles of Research Design
- Quantitative Methods OR Qualitative Methods
- Welfare Concepts and Ideas
- Approaches to Welfare: Past, Present and Future
- Dissertation (MSc only)

#### Optional Classes

Social Policy is an interdisciplinary field of study which draws inspiration from many areas. We currently offer the opportunity to choose options from a number of disciplines across the Faculty; we are also developing further classes within the School. Examples of classes available include:

- Advanced Project Class
- Comparative Public Policy
- Food and Health in the West During the 20th Century
- Pharmaceuticals, Ethics and Health, 1800-1980
- Childhood and Crime
- Organising Social Work Services
- Global Water Policy
- Housing Policy and Law

### Course Duration

12 months full-time; 24 months part-time

### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in Social Policy or a related discipline.

## Social Policy (Research Methods)

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Study a combination of research methods, core disciplinary training and individualised study
- Specialise in an area of your own personal interest
- Improve your knowledge and understanding of social and welfare issues

### Course Structure

#### Compulsory Classes

- Principles of Research Design
- Quantitative Methods
- Qualitative Methods
- Welfare Concepts and Ideas
- Approaches to Welfare: Past, Present and Future
- Dissertation (MSc only)

#### Optional Classes

Social Policy is an interdisciplinary field of study which draws inspiration from many areas. We currently offer the opportunity to choose options from a number of disciplines across the Faculty. Students will also have the opportunity to pursue more individualised programmes of study which reflect the specialist research interests of our social policy staff. These include such issues as:

- history of social policy in the UK
- the 'mixed economy of welfare'
- citizenship
- race, ethnicity and social policy
- migration
- child poverty
- contemporary health policy
- social investment
- technology and welfare

### Course Duration

12 months full-time; 24 months part-time

### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in Social Policy or a related discipline.

## Advanced Residential Child Care

MSc/PgDip/PgCert (part-time)

### Why study this programme at Strathclyde?

- The course is unique in the UK in being devoted entirely to residential child care
- The MSc/PgDip meet the management part of the requirement for registration with the Scottish Social Services Council

### Course Structure

The course is modular and requires attendance at the University for six days per single module. You are expected to complete six taught classes over a 17-month period. A further six months is allocated for completion of a practice-based dissertation.

#### Compulsory Classes

- Critical Perspectives on Residential Child Care
- Understanding and Assessing in Children's Life-spaces
- Ethical Leadership and Management in Residential Child Care
- Skilled and Reflective Use of Self in Residential Child Care
- Intervening Effectively in Residential Child Care
- Methods: Effective and Ethical Research in Residential Child Care
- Professional Enquiry in Residential Child Care: Dissertation

### Course Duration

24 months part-time

### Entry Requirements

Degree (minimum 360 SCQF credit points) or equivalent qualifications and experience.

Students with professional or academic qualifications other than social work will be considered.

No charges apply to students employed in residential child care settings in Scotland. Fees for this programme are paid through a Scottish Government grant (subject to continued funding) to CELCIS.

## Child and Youth Care Studies

MSc/PgDip/PgCert (distance learning)

### Why study this programme at Strathclyde?

- The only Child and Youth Care Masters-level programme delivered entirely online with no attendance required
- Develop theoretically informed, practice-based understanding of issues related to the social, political and cultural contexts of children and youth

### Course Structure

Classes involve a range of individual and group tasks in addition to live online sessions when the student group participates in online seminars.

### Compulsory Classes

- Globalised Childhood: Theoretical and Policy Contexts
- Child Development in the Lifespace
- Management and Leadership
- Critical Reflection and Relational Practice
- Interventions
- Research Methods
- Masters Research Project (incorporating dissertation)

### Course Duration

24 months part-time distance learning

### Entry Requirements

A first degree or relevant professional qualification, or a combination of qualifications and experience demonstrating capacity for postgraduate study.

Participants will also require sufficient access to child care settings through which they can evidence practice requirements. However, these requirements are broad enough to allow those in external management, supervisory and training positions to do so.

You will need to have access to a reliable computer with sufficient processing capability, an excellent broadband connection and the ability to run applications such as Adobe Connect, Adobe Reader, Flash Player, Java and Windows Media Player.

## Mental Health Social Work

PgCert (part-time)

### Why study this programme at Strathclyde?

- Gain a qualification to contribute positively to the care and treatment of those experiencing mental disorder
- Undertake practice experience with your employing local authority
- Benefit from the specialist input from guest lecturers

### Course Structure

The course is offered by a partnership which includes the University of Strathclyde, Glasgow Caledonian University and 13 local authorities in the west of Scotland, represented by the Scottish Social Services Council Learning Network West.

### Compulsory Classes

- Mental Health Officer Theory and Practice 1
- Mental Health Officer Theory and Practice 2

### Work Placement

Two blocks of practice experience – September to December and February to May are undertaken in the participant's employing local authority, supervised by a suitably-qualified member of staff, and supported by the course team.

### Course Duration

30 days of teaching/contact time during term time. You will need to commit to a minimum of 600 hours of study, practice learning and assessment over the course of the academic year.

### Entry Requirements

Applicants must be nominated and supported by their employing local authority, and be provided with appropriate learning opportunities. A minimum of two years post-qualifying experience is normally expected and you should be able to demonstrate that you have improved and extended your level of competence since qualification.

A professional social work qualification recognised by the Scottish Social Services Council (SSSC) is required. Suitable qualifications include BA (Honours) Social Work, Diploma in Social Work, Certificate of Qualification in Social Work (CQSW) and its predecessor qualifications, Certificate in Social Service. If you trained abroad, a letter of comparability with the CQSW or a letter of verification issued by SSSC (or another registering Council in the UK) will be required.

# SCIENCE

# WE ARE THE FACULTY OF SCIENCE

**With one of the UK's leading faculties of science, the University of Strathclyde provides a vibrant, dynamic, supportive and friendly place to study. The Faculty of Science offers a wide range of postgraduate taught courses and postgraduate research opportunities, designed to offer you advanced skills relevant in today's global workplace.**

Strathclyde offers you the opportunity to gain a top-class qualification while studying in the heart of Scotland's largest city. The Faculty of Science investigates the challenges and possibilities of the natural and technological world, from drug discovery and public health to environmental concerns, tackling cybercrime and understanding space.

Delivered by world-class researchers, our Masters programmes provide the opportunity to gain an invaluable postgraduate qualification which will enhance your career prospects.

Students are offered high-quality teaching, informed by

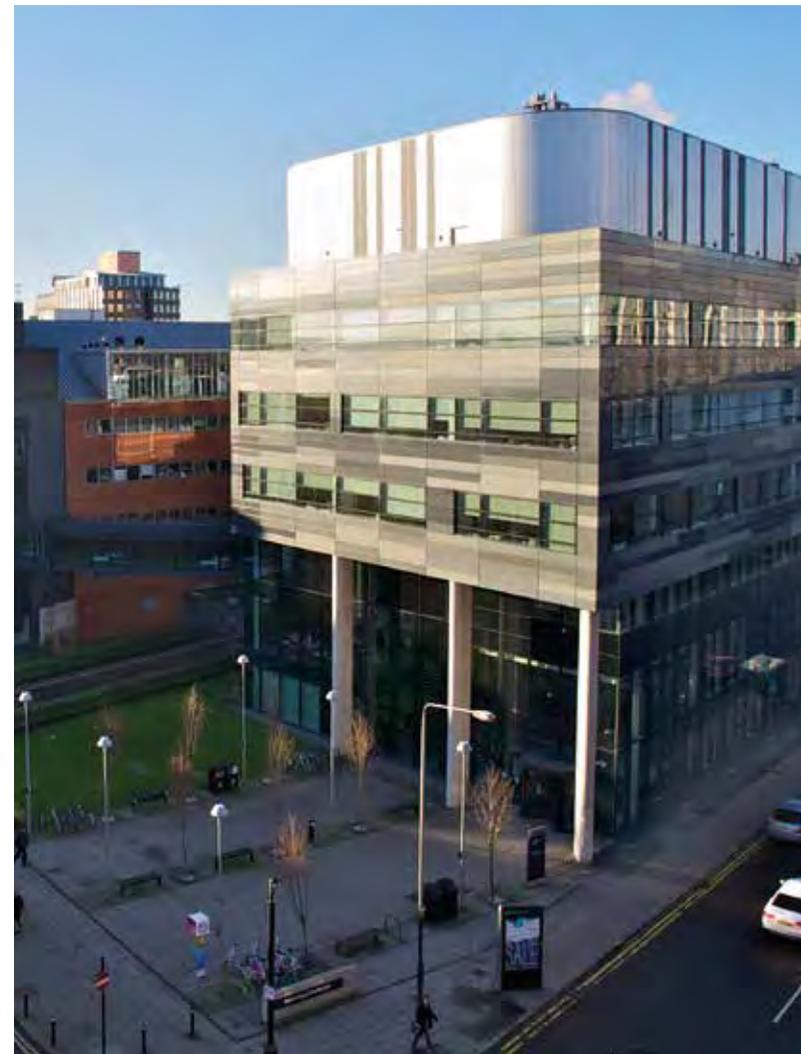
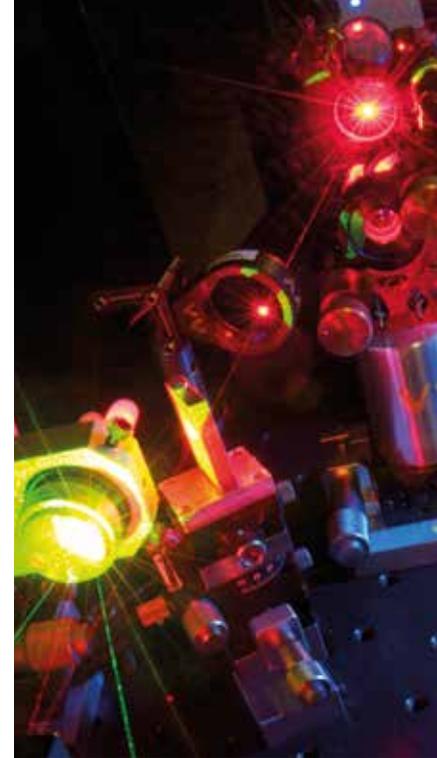
innovative research, and strong links with industry, the National Health Service and international partners.

In the 2014 Research Excellence Framework, the department of Physics was rated No 1 in the UK for research quality. For research power, Pharmacy and Biomedical Sciences was fourth in the UK and first in Scotland, and Chemistry was fourth in the UK. Our Forensic Science subject is ranked No 3 in the UK in the Complete University Guide.

Global demand for digital technologies is currently high, and demand for these skills is forecast to rise. We have launched the Strathclyde Digital Academy to support

this need for skilled graduates. This collaboration between the University, partner colleges and employers will provide pathways to degree-level study and employment in the key disciplines of information and communication technology and digital technology. Our courses in Advanced Software Engineering, Information Management, and Quantitative Finance will be available to students on the pathway.

**Contact**  
Faculty of Science Office  
t: +44 (0)141 548 3765  
e: [science-enquiries@strath.ac.uk](mailto:science-enquiries@strath.ac.uk)



Our Physics Department is **number 1** in the UK for research.



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# Department of Computer & Information Sciences

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## RESEARCH DEGREES

MPhil, PhD

### Contact for Research Degrees

t: +44 (0)141 548 3189

e: enquiries@cis.strath.ac.uk

## TAUGHT COURSES

Advanced Computer Science

Advanced Software Engineering

Enterprise Information Systems

Information and Library Studies

Information Management

Information Management with Industrial Placement

Quantitative Finance (offered in collaboration with the

Departments of Mathematics & Statistics and Accounting & Finance, see pg 118 for course entry)

### Contact for Taught Courses

t: +44 (0)141 548 3096

e: pgi-inquiry@cis.strath.ac.uk

The Department of Computer and Information Sciences is an interdisciplinary school providing an innovative curriculum and research environment. Research interests span the whole spectrum of computer and information sciences theory and application, from fundamental algorithms to information behaviour. Research is funded by the Research Councils (EPSRC, ESRC and AHRC), the EU, and various government agencies and industry bodies; we have a strong record of industrial and professional engagement and collaboration including partnerships with Microsoft, Rolls-Royce Marine and the European Space Agency.

The Department is home to the leading information school in Scotland and one of the top in the UK; it is the largest and oldest provider of postgraduate instructional and research training in Library and Information Studies in Scotland, and is a member of the iSchools group, a coalition of the world's leading information schools.

## Research Areas

Research activities are structured around eight groups:

### iLab

This interdisciplinary information science research group investigates arising socio-techno phenomena and evolving information behaviour. We investigate human information need and use, and inform future interactive public information system service design. Our work is theoretically underpinned by shared interests in information retrieval, information-seeking behaviour, information architecture, and information policy. We work closely with industry and the library and information science profession, have active research partnership agreements with a number of public sector organisations, and are members of the ESRC Information Science Pathway Doctoral Training Centre, and the AHRC Information Science Doctoral Scheme Consortium.

### Digital Health and Wellbeing

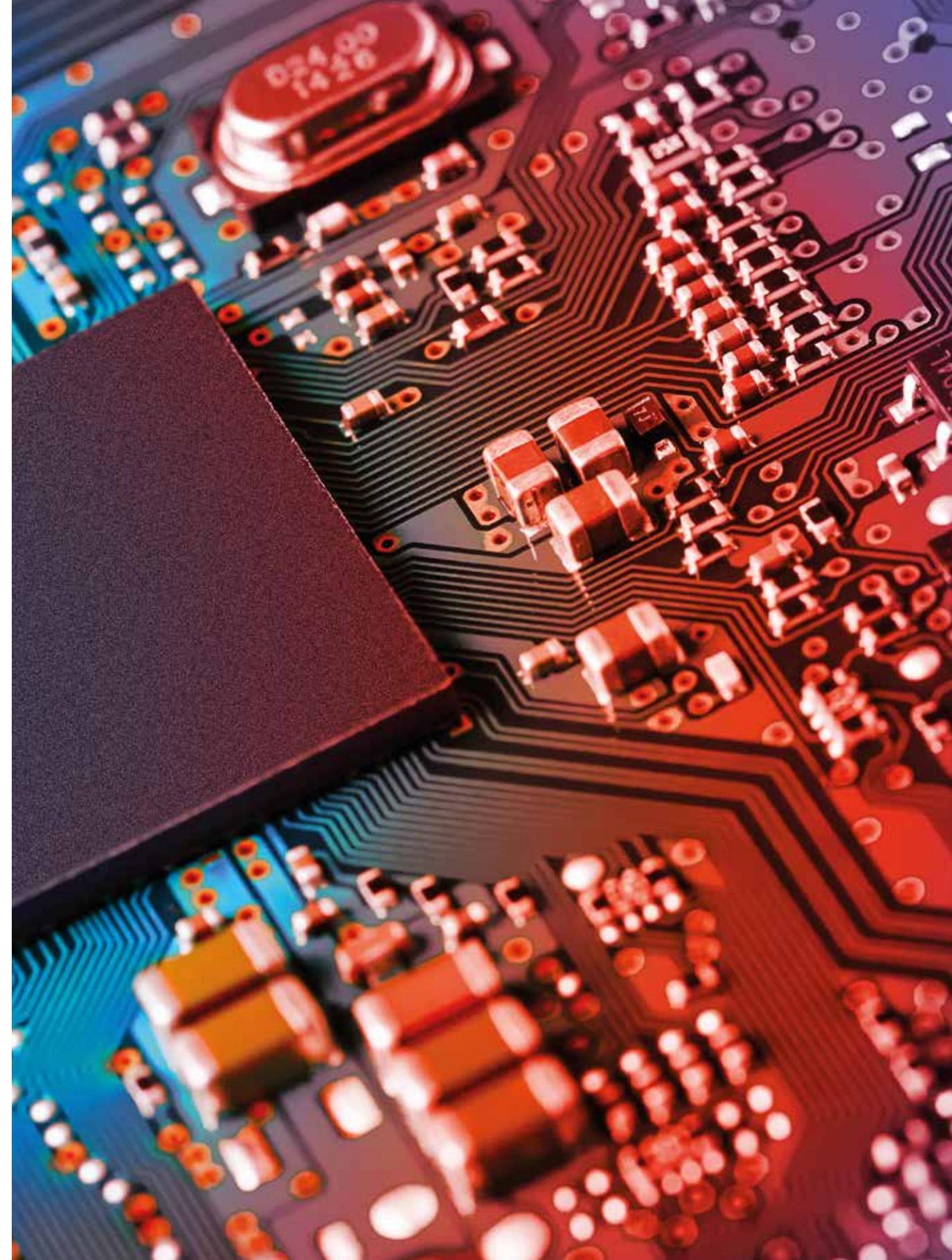
Research interests and work of the group includes looking at the full development lifecycle of truly person-centered digital health and wellness services and products. We have extensive experience of designing with, and for, patients, consumers, citizens, and health and social care professionals. We are working on several projects with charities, the NHS, industry and public sector bodies to develop usable and effective digital health and wellness products and services to reduce inequalities, improve people's lives and transform the way health and care is delivered and accessed globally.

### Mathematically Structured Programming

The group is researching programming languages to provide solutions to problems in important areas such as concurrency and distribution, program verification, multi-core architectures, domain specific languages, security, web programming and mobile apps. Researchers use ideas from category theory, type theory and functional programming to achieve their goals.

### Software Systems

The group investigates the construction and analysis of complex software-based systems, especially those involving the distribution of data across the internet. Current areas of investigation include the identification of the key features, abstractions and interactions in complex software designs; automatically identifying and locating faults in code; and engineering mobile and distributed systems that rely on large amounts of globally-distributed data but run on small portable computing devices. Our research is rooted in significant industrial challenges and has a strong empirical and practical evaluation focus.



### Mobiquitous Lab

The Mobiquitous Lab investigates user behaviour on mobile devices and ubiquitous computing (computing on any type of device) along with new, emerging mobile and touch technologies. Our research helps us to understand how computing can improve people's lives and how it can be used every day. Our research spans a variety of user-centred design methods, including quantitative user studies in controlled experiments, participant observation and field studies of technology use.

### Combinatorics Group

Combinatorics is one of the underpinnings of theoretical computer science, which also provides much of the motivation for research in the field. The group's research spans a wide spectrum, with recent emphasis on permutation patterns, combinatorics on words, graph theory and applications to physics and biology.

### Computer Security

The increasing use of computer-based systems throughout industry, commerce and leisure gives rise to many issues concerning security. These issues range from techniques for protecting system and network integrity, strategies for securing the information used, generated and stored by such services and the development of robust network services. The research interests of the group cover a wide spectrum of such issues, from intrusion detection techniques, malware characteristics, textual steganography, trusted systems and the role of human factors in enterprise security in general and usable authentication in particular.

### Similarity and Metric Search

Searching is among the most important uses of computing systems today. Recent figures suggest that up to 95% of the world's computing resource use is performing search in one form or another. Almost all commercial search is based on a straightforward vector space model and a mathematically simple comparison of texts according to their term frequency. Research is looking into unsolved problems, particularly metric space models and distance-based searching, where no coordinate system is available and all that can be found is the similarity of any two objects to each other.

## Advanced Computer Science

MSc

### Why study this programme at Strathclyde?

- Pursue a tailored programme through a flexible structure of optional classes
- Opportunity to follow a specialist pathway leading to a specific named award
- Skilled computer science professionals are in demand

### Course Structure

#### Compulsory Classes

- Information Law
- Research Methods

#### Specialist Pathways

Students select a combination of classes from across the following specialist pathways:

#### Advanced Software Engineering

- Software Architecture and Design
- Designing Usable Systems
- Distributed Information Systems
- Mobile Software and Applications

#### Enterprise Information Systems

- Distributed Information Systems
- Project Management
- Computer Security
- Information Retrieval and Access
- Business Analytics
- Information Systems Architecture
- Data Analytics

#### Dissertation

Students also undertake an individual research project.

#### Course Duration

**MSc:** 12 months full-time

#### Entry Requirements

First or second-class Honours degree, or overseas equivalent, in computer science or a closely-related mathematical or engineering discipline.

## Advanced Software Engineering

MSc

### Why study this programme at Strathclyde?

- Develop the skills to design and deploy sophisticated modern software systems
- Enhance your existing practical software engineering skills and benefit
- Learn new theories of software development

### Course Structure

#### Compulsory Classes

- Software Architecture and Design
- Advanced Topics in Software Engineering
- Designing Usable Systems
- Distributed Information Systems
- Mobile Software and Applications
- Information Law
- Research Methods
- Project Management

#### Dissertation

Students also undertake an individual research project.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in computer science or a closely-related mathematical or engineering discipline.

## Enterprise Information Systems

MSc

### Why study this programme at Strathclyde?

- Enhance your existing skill base to operate at the enterprise level
- Develop skills in strategic planning, architectural design and large-scale data management and retrieval
- Become familiar with enterprise architecture frameworks

### Course Structure

#### Compulsory Classes

- Distributed Information Systems
- Information Systems Architecture
- Project Management
- Business Analytics
- Computer Security
- Information Law
- Research Methods
- Information Retrieval

#### Dissertation

Students also undertake an individual research project.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in computer science or a closely-related mathematical or engineering discipline.



## Laura MacNeil

MSc Information and Library Studies

The Information and Library Studies course at Strathclyde is varied, challenging and engaging and offers much more than training you to become a professional librarian.

The subjects are wide-ranging and relevant and classes cover topics which enhanced my professional skills. I also gained insight into the variety of roles available to an information professional, outside the traditional library environment. Work placements offered real-life experience and the chance to develop essential skills which have provided me with a sound basis from which to start my career.

## Karl Thurgood

MSc Information and Library Studies

The breadth of subject matter covered by the course is impressive – from cataloguing and the organisation of libraries, how search engines operate and the basics of building resources for the web, to issues of information law and ethics and the philosophical basis of why information professionals matter.

Library placements provided the opportunity to put my learning into context. The course isn't just for librarians – we live in the 'information age', and I have gained the skills to undertake a range of roles to make a real difference.



## Information and Library Studies

MSc

### Why study this programme at Strathclyde?

- Accredited by the Chartered Institute of Library and Information Professionals
- Largest course of its kind in Scotland
- Half-day per week placement for 24 weeks working with an individual mentor or in one of Glasgow's libraries

### Course Structure

#### Compulsory Classes

- Information Retrieval and Access
- Information Law
- Library Technology and Systems
- Managing Information Services
- Organisation of Knowledge
- Libraries, Information and Society
- Research Methods

#### Dissertation

Students also undertake an individual research project.

#### Placement

Students have the option to undertake a placement to gain practical librarianship experience. Previous participating organisations include NHS Scotland, Scottish Television and various national and local libraries and government agencies.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent. Consideration may also be given to those holding other qualifications in relevant disciplines.

## Information Management/Information Management with Industrial Placement

MSc

### Why study this programme at Strathclyde?

- Accredited by the Chartered Institute of Library and Information Professionals and recognised by the Chartered Management Institute
- Opportunity to gain practical business analysis experience via an industrial engagement project

### Course Structure

#### Compulsory Classes

- Business Analysis
- Data Analytics
- Information Systems Architecture
- Database and Web Systems Development
- Information Retrieval
- Information Law
- Project Management
- Research Methods

#### Dissertation

Students also undertake an individual research project.

#### Industrial Placement Stream

Students on the industrial placement stream undertake a three-month placement to apply the practical skills gained on the course in a partner organisation. Support is provided by the department to help students arrange their placement.

#### Course Duration

12 months full-time (15 months full-time with Industrial Placement)

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent. Consideration may also be given to those holding other qualifications in relevant disciplines.

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# Department of Mathematics & Statistics

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## RESEARCH DEGREES

MPhil, PhD

### Contact for Research Degrees

t: +44 (0)141 548 3382

e: ma-contact@strath.ac.uk

## TAUGHT COURSES

Applied Mathematical Science

Applied Statistics in Health Sciences

Quantitative Finance

### Contact for Taught Courses

e: mathstats-pgtadmissions@strath.ac.uk

The Department of Mathematics and Statistics is one of the largest of its kind in Scotland, with an international reputation in the use of mathematical analysis for real-world problems. The Department has collaborative links with researchers in other universities, from other disciplines and from the industry, business and government sectors, in the UK, Europe, the USA and China.

Funding comes from a range of sources including the Engineering and Physical Sciences Research Council, the Carnegie Trust, University Scholarship Awards, UK industry and the EU.

## Research Areas

We have major research themes in the areas of industrially-relevant mathematics, numerical algorithm development, statistics for the health sciences, modelling of marine systems, and the development of novel techniques for stochastic and network analysis.

Research activities are focused in five interdependent groups:

### Applied Analysis

Research focuses on the development of rigorous analytic and constructive methods for solving differential and integral equations arising from the applied sciences. The group has collaborations with other groups in the department and with researchers from a range of other disciplines – from physicists, chemists and engineers to social scientists. There is a particular focus on nonlinear evolutionary processes, operator theory for the study of differential and integral equations, and the analysis of networks.

### Continuum Mechanics and Industrial Mathematics

Research focuses on the development of accurate mathematical theories of physical materials and the use of these theories in the mathematical modelling of industrial processes – from the flow of the tiny amount of liquid that is contained in the display in your mobile phone to how ultrasound waves travel through engineering structures to detect cracks. This research is multidisciplinary – group members have expertise in continuum theories, material science, fluid dynamics and mathematical modelling in general, and collaborations with physicists, engineers, chemists and many industrial companies.

We have key groups in liquid crystal theory, fluid dynamics and non-destructive testing, with international links to similar research groups around the world.

### Numerical Analysis and Scientific Computing

This group is one of the largest in the UK. It has an international reputation for research excellence in the construction and analysis of methods for the numerical solution of nonlinear differential and integral equations, and in the computational solution of problems of practical interest and several aspects of numerical linear algebra. Research activities are focused on:

- numerical solutions of partial differential equations
- stochastic computation
- numerical linear algebra
- computational physics and engineering

## Population Modelling and Epidemiology

Research focuses on the epidemiology of infectious diseases, ecological complexity, marine and fisheries modelling, and mathematical cell biology. The group is made up from a wide range of expertise from statistics, informatics and image processing to dynamical systems and time series analysis.

The overarching theme of the group is the use of modelling techniques to extract information from complex data sets with an emphasis on practical problems.

Research activities are focused on:

- marine population modelling
- mathematical biology
- epidemiology and statistical informatics

Current projects are modelling the epidemiology of measles, mumps and rubella to assess the spatial risk of the disease and potential effects of low MMR-vaccination uptake and implementing spatial models for air pollution in central Scotland to investigate the link between atmospheric sulphur dioxide and health problems.

## Stochastic Analysis

Research is ongoing across a broad range of stochastic mathematics including discrete-state space Markov processes, stochastic differential equations, stochastic geometry, point processes and time series. Application areas include modelling in population biology, agricultural epidemiology, biochemistry, quantum optics, telecommunications systems, finance and financial econometrics.

Group members have formed a widely distributed network of national and international collaborators, in academia and the business world. Research interests cover:

- Stochastic Differential Equations
- Stochastic Computation
- Time Series
- Probability Theory
- Image Analysis

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## Applied Mathematical Sciences

MSc

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### Why study this programme at Strathclyde?

- Gain a good theoretical understanding of important areas of applied mathematical sciences
- Develop computer programming skills associated with mathematical and statistical modelling
- Model real-world phenomena using applied maths

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### Course Structure

#### Compulsory Classes

All students take the class Mathematical Sciences and undertake an individual research project;

#### Optional Classes (six to be chosen)

- Modelling and Simulation with Applications to Financial Derivatives
- Applicable Analysis 3
- Statistical Modelling and Analysis
- Fluids and Waves
- Finite Element Methods for Boundary Value Problems and Approximation
- Applied Statistics in Society
- Mathematical Biology and Marine Population Modelling
- Mathematical Introduction to Networks
- Applied Analysis and PDEs 1 & 2
- Applied Mathematics Methods 1
- Statistics
- Probability

### Course Duration

12 months full-time

### Entry Requirements

First- or second-class Honours degree, or equivalent, in mathematics or a suitably numerate science or engineering subject.

## Applied Statistics in Health Sciences

MSc

### Why study this programme at Strathclyde?

- Develop as an applied statistician without previously having studied statistics
- Lectures will be based around real-life problems and data from the health sciences
- Gain fundamental probability and data analysis skills

### Course Structure

The course is run in collaboration with the Animal and Plant Health Agency (APHA), an Executive Agency of the Department for Environment, Food and Rural Affairs.

#### Compulsory Classes

- Foundations of Probability and Statistics
- Data Analytics in R
- Applied Statistical Modelling
- Medical Statistics
- Spatial Statistics
- Effective Statistical Consultancy
- Risk Analysis
- Survey Design and Analysis

#### Research Project

You undertake a research project in which you will work on a real-life data set, putting the theoretical skills you have learned into practice. Working with APHA and the National Health Service on one of their policy-driven problems is possible.

#### Course Duration

12 months full-time

#### Entry Requirements

Honours degree, or overseas equivalent. Mathematical training to A Level, or equivalent standard.

## Quantitative Finance

MSc

### Why study this programme at Strathclyde?

- Gain an understanding of financial theory and analysis, financial markets, numerical methods in finance and programming for financial applications
- Designed with input from the finance industry
- Opportunity to undertake industry-based MSc project

### Course Structure

This cross-faculty programme draws on expert academic input from three departments – Accounting & Finance, Mathematics & Statistics, and Computer & Information Sciences.

#### Compulsory Classes

- Foundations of Mathematical and Statistical Finance
- Principles of Finance
- International Financial Markets and Banking
- Foundations of Computer Science

#### Optional Classes

- Behavioural Finance
- Security Analysis
- Portfolio Theory and Management
- Derivatives and Treasury Management
- Database and Web Systems Development
- Business Analytics
- Evolutionary Computation for Finance
- Financial Stochastic Processes
- Financial Econometrics
- Games and Networks in Finance

#### Research Project

Students also undertake an individual research project.

#### Course Duration

12 months full-time

#### Entry Requirements

Honours degree, or overseas equivalent, in accounting, economics, engineering, business studies or a subject area with a strong quantitative element. Applications are also welcome from those with appropriate professional qualifications, or those who can demonstrate relevant practical experience.

## Thomas Van Wees

### MSc Quantitative Finance

I chose to come from the Netherlands to study at Strathclyde because the course appealed to me and the University has a good reputation. The online application process was easy and if you need to contact the University, they reply quickly.

The University has definitely lived up to my expectations. The course has a good combination of maths, programming and finance and I have gained the skills which are sought after by the industry. I've also made use of additional services on offer, such as the Careers Service.

Glasgow is a lively city to live in and there's always something going on. Coming to study in Scotland has confirmed that I can live on my own in a different country and experience another culture.

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# Department of Physics

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## RESEARCH DEGREES

MRes, MPhil, PhD  
EngD in Applied Photonics  
Centre for Doctoral Training in Diamond Science and Technology

## Contact for Research Degrees

t: +44 (0)141 548 4134  
e: pgstudies@phys.strath.ac.uk

## TAUGHT COURSES

Advanced Physics  
Applied Physics  
Industrial Photonics  
Nanoscience  
Optical Technologies

## Contact for Taught Courses

t: +44 (0)141 548 3362  
e: physics-pgtadmissions@strath.ac.uk

As the top-ranked UK Physics Department for research quality, the Department is engaged with exciting projects at the forefront of Physics research, from teasing out the fundamental properties of the Universe to spearheading market-driven device-oriented interdisciplinary projects.

We are developing disruptive technologies from basic physics that have the potential to revolutionise healthcare in the future, or solve the energy crisis. Many of our researchers have received national and international recognition of their contributions to science.

Recent major developments include the establishment of, and leading role for the Department in, an international Max Planck Partnership in Measurement at the Quantum Limit, and the first UK Fraunhofer Research Centre, the Centre for Applied Photonics.

The Department is a member of SUPA – the Scottish Universities Physics Alliance – a research collaborative initiative across Scottish Physics departments and a pan-Scotland Graduate School in Physics.

The Department is also a major player in the recent UK initiative to exploit quantum technologies. It is the only Department in the UK to be involved in all four of the Quantum Hubs that were established in 2015. In addition, the Department is playing a key role in the management of the scientific direction of the National Physical Laboratory (NPL), a world-renowned body for physical standards.

## Research Divisions

### Nanoscience

The Nanoscience division reflects the broad range of scientific areas in which nanotechnology is destined to make an impact on our lives. The division comprises:

- Biomolecular and Chemical Physics Group – researchers are interested in the building blocks of life such as molecules, proteins, nanoparticles or microorganisms, which have relevance from the molecular basis of health to life in the sea
- Gravity Group – focuses on three areas of gravity-related research – novel non-interferometric enabling technologies for advanced gravitational wave detectors such as LIGO, VIRGO, and KAGRA, gravity gradiometry, and gravitational modelling
- Semiconductor Spectroscopy and Devices Group – combines studies of optical processes in advanced semiconductor materials and the realisation of practical optoelectronic devices

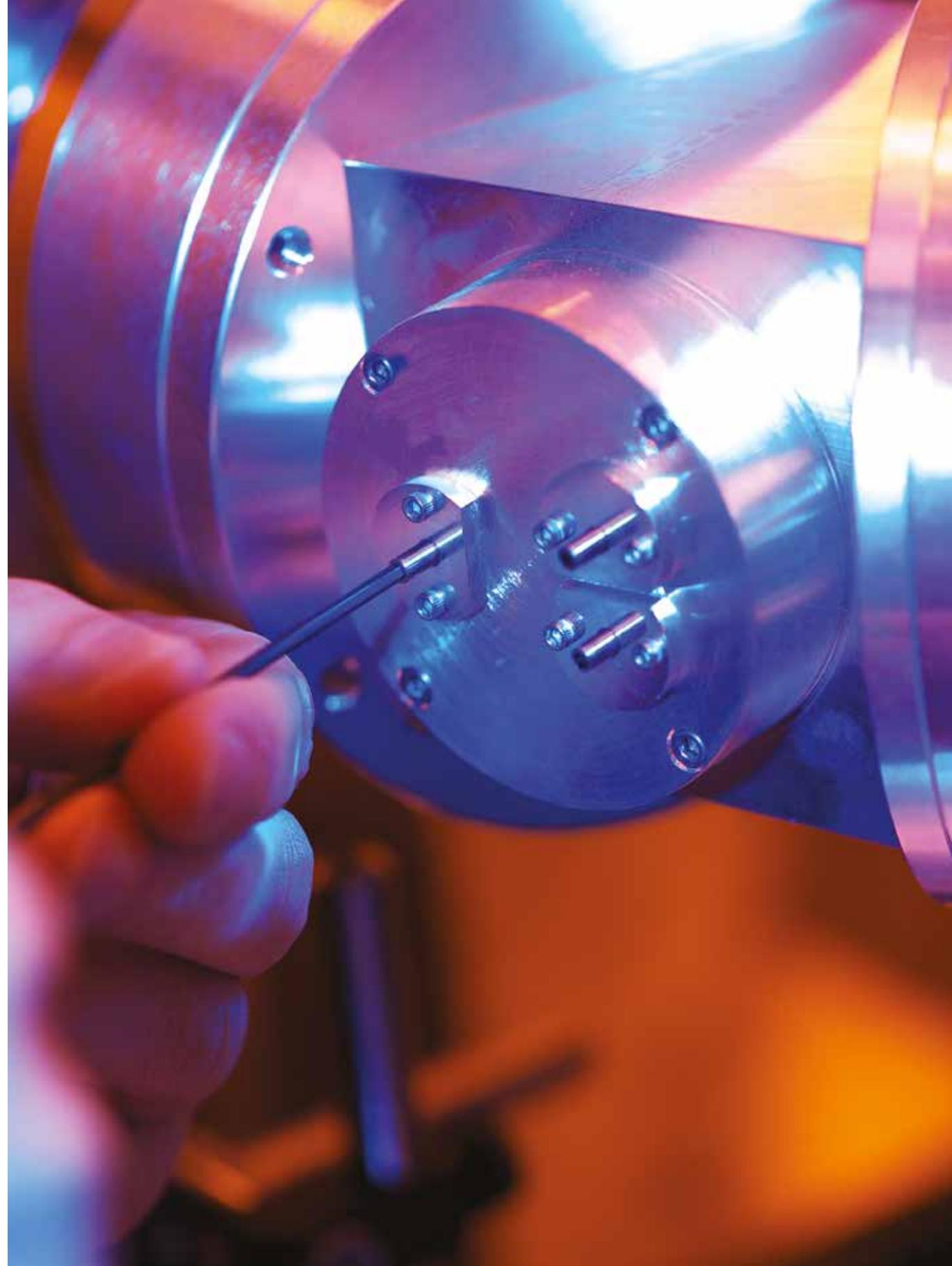
### Optics

The Optics division concentrates on quantum optics, both experimental and theoretical, and the expertise that has been attracted to the division is being used to form both international and UK-wide research links through the Max Planck Partnerships, the Quantum Hubs and the University's management of NPL. Central to this is our work in the understanding and exploitation of the foundations of quantum optics. The division includes a theoretical research group – Computational Nonlinear and Quantum Optics, and an experimental group – Experimental Quantum Optics and Photonics:

- Computational Nonlinear and Quantum Optics – investigates problems associated with the fundamentals of light-matter interactions, many-body physics, simulations of nonlinear optical devices, non-equilibrium dynamics of quantum gases
- Experimental Quantum Optics and Photonics – researchers explore the entire research field from the fundamental interactions of single atoms and photons, through to applied research in spectroscopy and application of our techniques to new quantum technologies

### Plasmas

The Plasmas division is the largest centre for plasma physics research in Scotland. It is the location for the new Scottish Centre for the Application of Plasma-based Accelerators and was a partner in the EPSRC Centre for Doctoral Training in Next Generation Accelerators. The division comprises:



## Advanced Physics

MSc

- Atoms, Beams and Plasmas Group – research is broadly based on free electron physics, accelerator science, plasma physics and atomic and molecular spectroscopy; current topics include free electron physics, particle accelerator technology, plasma physics, atomic and molecular spectroscopy
- Strathclyde Intense Laser Interaction Studies Group – investigates radiation-beam-plasma interactions at large field intensities for the production of high-energy particle beams (electrons, protons, ions) and high brightness radiation pulses (X-rays, gamma-rays, THz)

### Institute of Photonics

The Institute's key objective is to bridge the gap between academic research and industrial application and development through excellence in commercially-relevant research and its exploitation. It is closely linked to the recently-established UK Fraunhofer Research Centre for Applied Photonics. We seek to establish ongoing relationships with companies, providing research capabilities which both complement and supplement their internal research activities. Current research themes are:

- laser and LED sources
- solid-state lasers
- diamond Raman lasers
- VECSELS
- microLED and nanoLED arrays
- hybrid organic-inorganic photonics
- optogenetics and biophotonics

We are a research-intensive unit and postgraduate student training is one of our core activities. As a result of the multidisciplinary nature of photonics, many of our students are jointly supervised with academic colleagues from other departments, such as Pure and Applied Chemistry or Biomedical Engineering. The Institute provides a friendly and supportive environment for a large number of postgraduate students.

### Why study this programme at Strathclyde?

- Focus on topics such as theoretical physics, complexity, quantum information, classical mechanics and solid state physics
- Choose taught elements relevant to your career interests
- Gain transferable, problem-solving and numeracy skills

### Course Structure

#### Compulsory Class

- Research Skills

#### Optional Classes

- Introductory Nanoscience
- Advanced Nanoscience 1 & 2: Imaging and Microscopy/ Solid State Nanoscience
- Topics in Photonics: Laser and Nonlinear Optics
- Experimental Quantum and Atom Optics
- Advanced Topics in Photonics: Ultrafast Physics and Plasmas
- Photonics Materials and Devices
- Advanced Photonics Devices
- Theoretical Quantum Information
- Quantum Optics, Nonlinearity and Open Quantum Systems
- Advanced Topics in Complex Systems
- Advanced Topics In Theoretical Physics
- Advanced Topics In Electromagnetism and Plasma Physics
- Advanced Topics in Quantum Optics

#### Research Project

Students also undertake an individual research project.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in physics or a related subject.

Other qualifications, including industrial experience, may be considered. Candidates may be invited for interview.

English language: IELTS 6.0 (no individual score below 5.5) is required for all non-English speakers.

## Applied Physics

MSc

### Why study this programme at Strathclyde?

- Acquire knowledge of the theoretical background, techniques and practices within applied physics and its interdisciplinary applications
- Specialise in subjects such as microwave technology, laser-based acceleration and applied solid-state physics

### Course Structure

#### Compulsory Class

- Research Skills

#### Optional Classes

- Introductory Nanoscience
- Advanced Nanoscience 1 & 2: Imaging and Microscopy/ Solid State Nanoscience
- Topics in Photonics: Laser and Nonlinear Optics
- Experimental Quantum and Atom Optics
- Advanced Topics in Photonics: Ultrafast Physics and Plasmas
- Photonics Materials and Devices
- Advanced Photonics Devices
- Quantum Optics, Nonlinearity and Open Quantum Systems
- Advanced Topics In Electromagnetism and Plasma Physics
- Optical Communication (Photonic Systems)
- Control Principles
- Advanced Topics in Quantum Optics

#### Research Project

Students also undertake an individual research project.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in physics or a related subject.

Other qualifications, including industrial experience, may be considered. Candidates may be invited for interview.

English language: IELTS 6.0 (no individual score below 5.5) is required for all non-English speakers.

## Industrial Photonics

MSc

### Why study this programme at Strathclyde?

- Opportunity to undertake a three-month research or development project with one of our industrial partners
- Prepare for a career in the optoelectronics/photonics industry sector or an industry-oriented doctoral degree
- Develop entrepreneurial and innovation skills

### Course Structure

#### Compulsory Class

- Research Skills
- Project Training
- Topics in Photonics: Laser and Nonlinear Optics
- Advanced Photonics Devices
- Systems Engineering Project

#### Optional Classes

- Optical Design
- Photonics Materials and Devices
- Optical Communication (Photonic Systems)

#### Research Project

Students also undertake an individual research project.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or overseas equivalent, in physical science or electronic and electrical engineering.

Other qualifications, including industrial experience, may be considered. Candidates may be invited for interview.

English language: IELTS 6.0 (no individual score below 5.5) is required for all non-English speakers.



## Metin Ilke

### MSc Optical Technologies

I chose Strathclyde due to its world-class research and established links with industry. The flexible approach to teaching in the Physics department encouraged me to continuously extend my horizon of knowledge outside the rigid boundaries of research. My Masters study has covered a wide range – from business management to design of high-quality lasers.

I came here with the intention of improving my practical skills and my job prospects. I am now starting a PhD programme in the Centre for Microsystems to develop photo-acoustic gas sensors.

## Manto Chouliara

### MSc Applied Physics

The exceptional reputation of Strathclyde as a world-class research university was the reason to choose the Department of Physics for my Masters degree. The course has provided me with a wide range of experimental physics skills and the opportunity to use them in a cutting-edge research project.

The multicultural environment on campus supports the collaboration of students from around the world, and through numerous group-work projects prepares us for our future jobs. The wealth of knowledge among our professors transformed a challenging course into a priceless experience.



## Nanoscience

MSc

### Why study this programme at Strathclyde?

- Master state-of-the-art research and methods in nanoscience in this interdisciplinary area of physics and chemistry
- Become equipped for a research-based career in industry or to progress to a PhD

### Course Structure

#### Compulsory Classes

- Research Skills
- Conversion Course
- Introductory Nanoscience
- Advanced Nanoscience 1; Imaging and Microscopy
- Advanced Nanoscience 2: Solid State Nanoscience
- Advanced Nanoscience 3: Chemical and Biomedical Nanoscience

#### Research Project

Students undertake a research-intensive project in a relevant nanoscience topic. Projects take place primarily in research labs associated with nanoscience located in the University's physical science departments; there may also be opportunities for relevant industrial placements.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in physics, chemistry or a related subject.

Other qualifications, including industrial experience, may be considered. Candidates may be invited for interview.

English language: IELTS 6.0 (no individual score below 5.5) is required for all non-English speakers.

## Optical Technologies

MSc

### Why study this programme at Strathclyde?

- Gain hands-on experimental research experience using modern instrumentation
- Suitable for those with a science or engineering background wanting to gain a vocational degree
- Establish a foundation for an optics-related PhD

### Course Structure

#### Compulsory Class

- Research Skills

#### Optional Classes

- Introductory Nanoscience
- Topics in Photonics: Laser and Nonlinear Optics
- Optical Design
- Experimental Quantum and Atom Optics
- Advanced Topics in Photonics: Ultrafast Physics and Plasmas
- Photonics Materials and Devices
- Advanced Photonics Devices
- Advanced Nanoscience 1; Imaging and Microscopy
- Quantum Optics, Nonlinearity and Open Quantum Systems
- Optical Communication (Photonic Systems)
- Advanced Topics in Quantum Optics

#### Research Project

Students also undertake an individual research project.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in physics or a related subject.

Other qualifications, including industrial experience, may be considered.

English language: IELTS 6.0 (no individual score below 5.5) is required for all non-English speakers.

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## Department of Pure and Applied Chemistry

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### RESEARCH DEGREES

MPhil, PhD

### Contact for Research Degrees

t: +44 (0)141 548 2672

e: pg-application.chemistry@strath.ac.uk

### TAUGHT COURSES

Forensic Science

Medicinal Chemistry

### Contact for Taught Courses

t: +44 (0)141 548 2100

e: chemistry-pgtadmissions@strath.ac.uk

The Department of Pure and Applied Chemistry has one of the largest research schools in the UK, with expertise ranging from analytical chemistry to materials science, and from biological chemistry to organic and inorganic synthesis. It also has a strong forensic science research base. Research in the Department is supported by industry, government, research councils, the EU and charitable foundations.

WestCHEM, the joint research school of the Universities of Strathclyde and Glasgow, brings together the strengths of these two major Chemistry Departments to offer outstanding facilities and opportunities within a diverse and expanding chemistry research environment. The result from the first UK-wide Research Excellence Framework (REF) consolidated WestCHEM's position as one of the leading chemistry research schools in the UK, with 94% of its research rated as internationally excellent or internationally leading.

### Research Areas

#### Analytical Chemistry

Research includes sample extraction procedures, atomic spectrometry, molecular spectrometry, chromatography and chemometrics.

The Centre for Process Analytics and Control Technology (CPACT) is a multidisciplinary collaboration involving eight university/research institute members and 29 industrial company members. Research includes developments in non-invasive online and in-reactor analysis techniques, chemometrics, process control and optimisation.

Environmental analytical chemistry includes work on novel sorbent systems for inorganic and organic pollutants, optimisation of new methods for bioaccessibility assessment, and development of low-cost colorimetric sensors.

#### Inorganic Chemistry

Research centres on various aspects of organometallic chemistry including metal-mediated synthesis and catalysis, coordination and supramolecular chemistry, N-heterocyclic carbenes and hydrides. A key theme running through this research is the study and exploitation of special synergistic effects created when different metals are mixed within different ligand environments. This fundamental research is linked to important applications such as fine chemical and pharmaceutical manufacture, and hydrogen storage.

#### Bionanotechnology

Leading activities based in the University's Technology and Innovation Centre include:

- creation of new nanoparticle-based assays for biomolecules indicative of disease using surface enhanced Raman scattering both *in vitro* and *in vivo* with an emphasis on cardiovascular disease and cancer
- design of new approaches to ultrasensitive analysis of molecules of interest such as explosives
- fundamental studies into the optical phenomenon of SERS

#### Organic Chemistry

The traditional strengths of organic synthesis are blended with recent developments in polymer science, organometallic chemistry, chemical biology, physical organic chemistry and computer science. Specialisms include DNA binding molecules, molecular imprinting with polymers, asymmetric synthesis, catalysis, radical



chemistry, venom chemistry, advanced NMR and 'green' chemistry. Various collaborative projects are in progress dedicated to the design of smarter and safer drugs to target the DNA, RNA and protein molecules involved in key disease states such as microbial infections, cancers or inherited disorders.

#### Physical Chemistry

Research on polymer degradation has led to significant advances in fire retardancy in flexible foam polymer systems. A fundamental understanding of the factors that control ageing in adhesive-bonded structures continues to be developed. Nano-composites research focuses on the factors influencing the dispersion of nanoparticles, and the physical properties of thermoplastics and thermosets. A growing activity relates to materials for optoelectronic applications; new materials have been developed to operate into the UV with functionality in sensor and OLED device applications.

The focus of work in crystal chemistry is on complex metal oxide ceramics that can show a range of useful magnetic or electrical properties, as well as effects such as magnetoresistance, multiferroic behaviour or ionic conductivity.

Research into organic semi-conductors encompasses the synthesis, characterisation and application of complex electro-active molecules and macromolecules in organic semiconductor devices. Specific applications include solar cells, field effect transistors, electrochromic devices, light emitting diodes and capacitors/supercapacitors.

Research in computational and theoretical chemistry is primarily carried out in close collaboration with experimental partners; applications include catalysis and analytical chemistry, organic chemistry, biochemistry, and drug design.

Current projects in biophysical and bionanotechnology research include investigations of the activity and stability of enzymes for practical catalysis; the deposition of proteins, peptides and nanoparticles in ordered structures; self-assembly of nanostructures; and the development of novel molecules and nanomaterials that are inspired by nature (ie bioinspired materials) for more efficient biocatalysis and for controlling the behaviour of stem cells.

#### Centre for Forensic Science

The Centre for Forensic Science (CFS) is internationally recognised as a centre of excellence in forensic science education, research policy and practice. In addition to undergraduate and postgraduate education, the Centre has provided training in forensic science to the police and scientists world-wide

The Centre is a recognised leader in research in forensic science and works in close collaboration with partners in operational forensic science laboratories. CFS members have published extensively in peer-reviewed journals in the forensic science domain.

Research within the Centre has an emphasis on the development of techniques for solving current and future forensic science-related problems with an end-user operational focus. The biology-based research includes aspects of DNA analysis including recovery and analysis of degraded DNA, and the use of RNA and DNA to explore aspects of body fluid identification and ageing.

Further research strengths include the application of novel electrochemical methods to samples of forensic science relevance, and the development of policy relating to the effective use of forensic science and the interface of science and law. This encompasses the social and legal aspects of forensic science and the effective use of forensic science in major and volume crime.

Students on the MSc in Forensic Science have the opportunity to undertake a three-month project, based in a forensic science laboratory in a company or university, in the UK or overseas. Examples of recent placements include laboratories across Scotland (eg Scottish Police Authority Forensic Services), the rest of the UK (eg Defence Science and Technology Laboratory, LGC Forensics), and a variety of locations around the world, including Australia, Canada (eg the Centre of Forensic Sciences, Toronto/Sault Ste Marie), New Zealand and the USA (eg the Consolidated Forensic Laboratory, Washington DC).

## Forensic Science

MSc/PgDip

### Why study this programme at Strathclyde?

- Longest running MSc Forensic Science course in the UK
- Accredited by the Chartered Society of Forensic Sciences
- Participate in a major practical crime scene exercise
- Undertake a three-month project in a university or operational forensic laboratory

#### Course Structure

##### Semester 1

The first semester covers core aspects of forensic science including:

- the law and legal aspects of forensic science
- investigation of crime and crime scene management
- evidence recovery including the examination of trace evidence (glass, paint, hairs and fibres)
- writing legal reports and statements

##### Semester 2

The second semester is split between biological aspects (body fluids, DNA, sexual offences) and chemical aspects (drugs of abuse, toxicology, fires, explosives).

#### MSc Project

MSc students undertake a three-month research project, which may be based at a forensic science laboratory in a company or university, in the UK or overseas.

#### Course Duration

**MSc:** 12 months full-time; **PgDip:** 9 months full-time

#### Entry Requirements

**MSc:** First- or upper second-class Honours degree, or overseas equivalent, in a relevant science subject such as chemistry, biology, biochemistry, pharmacy, zoology or botany. Candidates with operational experience are also welcome to apply.

**PgDip:** This is ideal for those who are marginally under-qualified for entry to the MSc course.

Entry is competitive and selection is based on academic ability; previous experience will be taken into consideration.

## Medicinal Chemistry/Medicinal Chemistry with Conversion

MSc/PgDip

### Why study this programme at Strathclyde?

- Strathclyde has an impressive record of drug development spanning more than 30 years
- Contribute to the development of more selective and safer drugs to fight and cure disease
- Gain practical skills alongside theoretical knowledge

#### Course Structure

The pre-sessional conversion course takes place in August and provides a fundamental grounding in basic modern organic chemistry and nmr spectroscopy. It is aimed at pharmacy and pharmaceutical science and related students who do not have sufficient organic chemistry background.

#### Compulsory Classes

- Pre-sessional Conversion Course (Medicinal Chemistry with Conversion only)
- Advanced Organic Chemistry
- Chemical Biology
- Principles of Modern Medicinal Chemistry
- Advanced Techniques in Biomedical Research
- Generic Research Skills

#### Optional Classes (one or two to be chosen)

- Postgraduate Studies in Microbiology/Haematology/ Clinical Biochemistry/Pathology/Biochemistry/ Pharmacology/Immunology
- *In vivo* Biology
- Toxicological Analysis
- Drug Discovery

#### MSc Project

MSc students undertake a research project and write a thesis for assessment.

#### Course Duration

**MSc:** 12 months full-time (13 months with conversion course)

**PgDip:** 9 months full-time (10 months with conversion course)

#### Entry Requirements

**MSc Medicinal Chemistry:** First- or upper second-class Honours degree, or overseas equivalent, in chemistry

**MSc Medicinal Chemistry with Conversion Course:**

First- or upper second-class Honours degree, or overseas equivalent, in a chemistry-related discipline, eg pharmacy or pharmaceutical science.

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# Strathclyde Institute of Pharmacy & Biomedical Sciences

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## RESEARCH DEGREES

MRes, MPhil, PhD, DPharm

## Contact for Research Degrees

t: +44 (0)141 548 2135

e: sipbs-postgrad@strath.ac.uk

## TAUGHT COURSES

Advanced Clinical Pharmacy Practice

Advanced Pharmaceutical Manufacturing

Biomedical Sciences

Industrial Biotechnology

Pharmaceutical Analysis

Pharmaceutical Quality and Good Manufacturing Practice

Pharmacy Practice

## Contact for Taught Courses

t: +44 (0)141 548 2135

e: sipbs-pgi@strath.ac.uk

The Strathclyde Institute of Pharmacy and Biomedical Sciences is a major research centre with a focus on two principal areas – Biomedical Science and Pharmacy. Our research involves the use of modern biological and chemistry-based approaches to inform on fundamental biological processes of relevance to health and disease. We integrate biological sciences, medicinal chemistry, pharmaceutical sciences and pharmacy practice to develop practical interventions in health and wellbeing.

The Institute's annual research income is around £6 million. Extensive collaborations exist across the university and beyond – linking with industry in the UK and internationally, and the NHS. Research funding is from the BBSRC, EPSRC, MRC, NERC, Wellcome Trust, CRUK, Centre for Defence Enterprise, Action Research, European Commission, Leverhulme Trust, Tenovus-Scotland, Scottish Enterprise, Chief Scientist's Office and industry.

The Institute houses the following:

- The Industrial Biotechnology Innovation Centre (IBioIC)
- CMAC – EPSRC Centre for Innovative Manufacturing in Continuous Manufacturing and Crystallisation
- The Cancer Research UK Formulation Unit
- PsyRING (Psychiatric Research Institute of Neuroscience in Glasgow)
- The Centre for Biophotonics

## Research Areas

Research is focused around the themes of 'new medicines, better medicines and better use of medicines'.

## New Medicines

### New targets for new treatments

The group works to increase understanding of fundamental bioscience with the aim of using the knowledge to determine how it contributes to normal health and wellbeing and/or is altered under pathophysiological conditions. Determining how the body functions under both physiological and pathophysiological conditions will further enhance our understanding of disease conditions. This helps us to identify potential novel therapeutic targets that can be probed using available *in vitro* and *in vivo* techniques.

Our research incorporates a broad range of activity including cardiovascular, immunology, microbiology and neuroscience. We perform research aimed at improving our knowledge of the fundamental mechanisms by which organisms function, from microbes to man, and how this can be applied to identifying potential novel therapeutic targets.

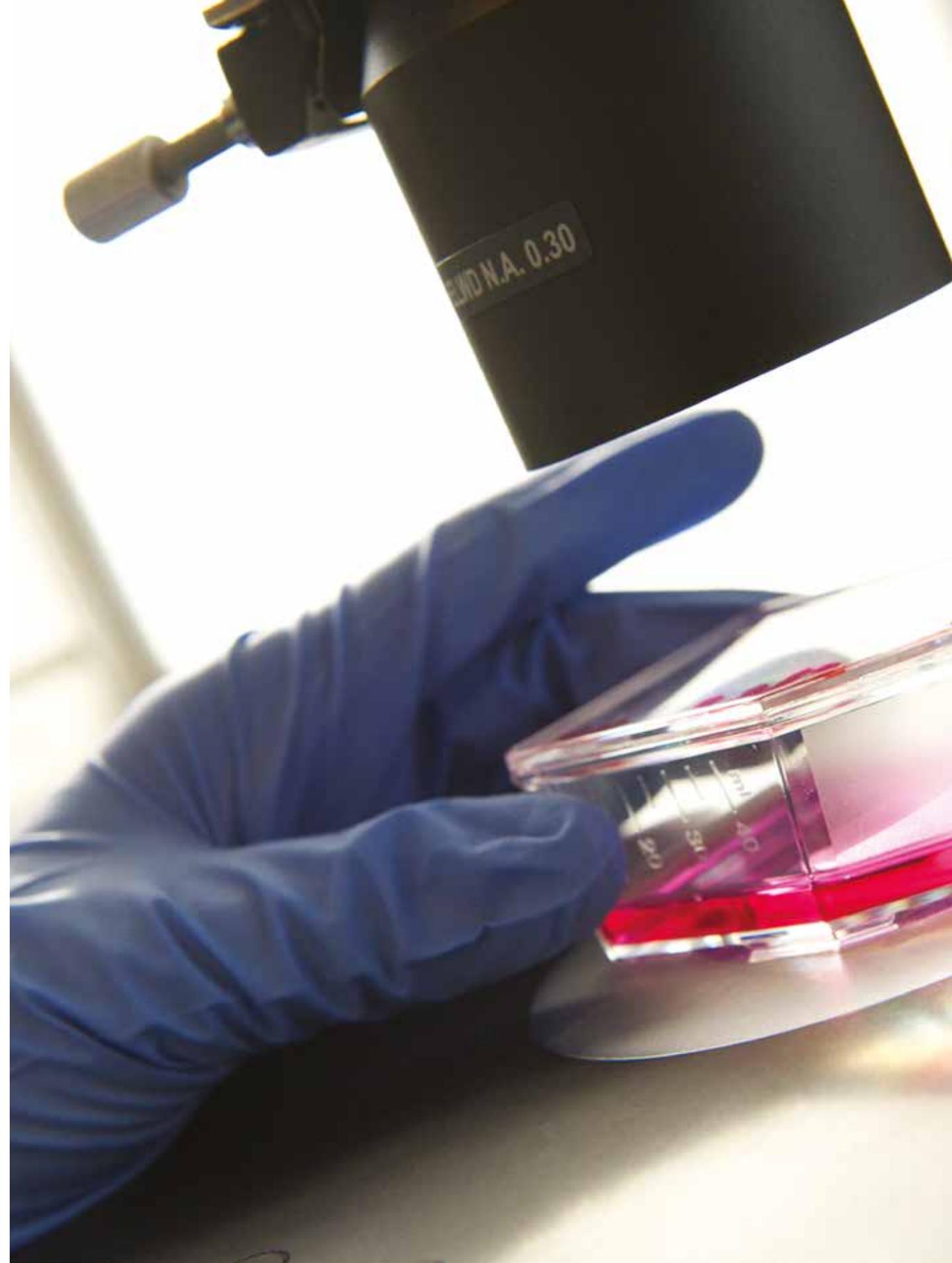
### Target validation and drug discovery

The objective of this group is to use medicinal chemistry, chemical biology and regenerative therapeutic approaches to improve treatment of significant health needs, or that focus on developing research tools that increase interrogative power of disease mechanisms and the efficiency of developing therapeutic interventions. The group is focusing on rare inflammatory diseases that can be investigated from the standpoint of multiple target pathways that can be or are validated in humans. They are building chemistry and clinical capacity to tackle these orphan status diseases with the objective that we will be able to translate our optimised compounds into new medicines.

## Better Medicines

This group takes part in high-quality basic and applied research relating to the development and manufacture of drug substances and products. Research builds on expertise in physical and material science, pharmaceutical technology, and formulation and advanced processing to translate new and existing chemical entities into safe, effective and high-quality medicines. The main areas of focus are:

- Pharmaceutical science, formulation and drug delivery
- Continuous manufacturing and crystallisation
- Industrial biotechnology innovation



## Doctor of Pharmacy

DPharm

### Better Use of Medicines

The research group is focused on person-centred, safe and effective use of medicines and public health improvement.

### Pharmacoepidemiology

Within this theme, our aim is to maximise the use of Scotland's rich health informatics datasets, including the new individual-level prescribing dataset, to support stratified medicine approaches and investigate the impact of interventions on public health. The programme focuses on medicine adherence, clinical outcomes, and toxicities in real-world clinical practice

We lead the Farr Institute pharmacoepidemiology programme. This focuses on cardiovascular and immunological therapies and have complementary programmes in respiratory disease, cancer and infection.

We also lead the clinical infection informatics work stream within the new Scottish Healthcare Associated Infection Prevention Institute. Our clinical/academic pharmacoepidemiology network is embedded in local NHS systems and links with other international research networks.

### Practice Research

Our aim is to maximise health outcomes and reduce resource wastage through the design and testing of new health care intervention models. The programme focuses on new health technologies (medicines, diagnostics, telehealth, robotics), dosage guidelines to optimise therapy, and service delivery models.

### Why study this programme at Strathclyde?

- Undertake the programme at your place of work
- Suitable for practising pharmacists in all areas of pharmacy, including hospital clinical pharmacy, technical services and community pharmacy practice
- Link your research to your role as a pharmacy

### Course Structure

You take taught classes in the first year of the programme. The remainder of the time is spent on a research project in your area of practice.

### Compulsory Classes

- Clinical Skills
- Research Skills
- Literature Review

### Course Duration

36 months full-time; 48 months part-time

### Entry Requirements

First- or second-class Honours degree in Pharmacy, or overseas equivalent. In the case of recent Pharmacy graduates, this will be the degree of MPharm with merit or distinction. Applications will also be considered from candidates holding other qualifications.

Candidates are normally required to be registered with the General Pharmaceutical Council as a pharmacist in the UK; or with the relevant professional body in the EU (including EEA countries); or may be registered as a pharmacist in a country outside the EU.

All candidates must have identified and secured an area of practice in which to conduct their research prior to applying.

For students with appropriate qualifications and experience, credit for prior learning may be awarded. Applicants who think that they may be suitable for this should contact the Institute.

## Master by Research Programmes

MRes

### Why study this programme at Strathclyde?

- Gain intensive laboratory-based training in research methods
- Graduates will be able to contribute to research-oriented activities in the biomedical industries or academia
- Develop skills in statistics, ethics and communication

### Course Structure

The programme is mainly focused on research and you will spend approximately two-thirds of your time undertaking a laboratory-based research project, supervised by an academic member of staff, in one of the following areas:

- Biomedical Sciences
- Drug Discovery
- Drug Delivery Systems
- Neuroscience

### Compulsory Classes

- Generic Research Skills
- Advanced Techniques
- Advanced Topics
- Research Project

### Course Duration

12 months full-time; 24 months part-time

### Entry Requirements

Second-class Honours degree, or overseas equivalent, in a biology/pharmaceutical-related subject. Other qualifications may also be considered.

## Advanced Clinical Pharmacy Practice

MSc/PgDip

### Why study this programme at Strathclyde?

- Choose classes that address specific practice and personal development needs
- The Independent Prescribing qualification is included as an optional element within the course
- Study in a small peer-group learning environment

### Course Structure

Classes are chosen from within the following themes:

### Therapeutics Toolkit

- Advanced Clinical Assessment and Consultation Skills
- Advanced Therapeutics and Health Innovation
- Clinical Practice Attachment

### Health Service Quality Improvement Toolkit

- Pharmacist Independent Prescribing
- Clinical Service Development
- Quality Improvement Methodology

### Research Toolkit

- Research Skills
- Research Project

The Independent Prescribing (IP) qualification is included within the course as an optional class; practitioners who have already completed the IP qualification will receive 30 credits for prior learning and the requirements for each award will be reduced correspondingly.

### Course Duration

A maximum of five years is allowed from the point of first registration to complete the award of an MSc.

### Entry Requirements

A degree in Pharmacy from a UK university or an equivalent qualification, and registration with the General Pharmaceutical Council.

## Advanced Pharmaceutical Manufacturing

MSc

### Why study this programme at Strathclyde?

- You will be equipped to take up jobs in the food, chemical and pharmaceutical industries
- Undertake a 10-week research project
- Learn about key aspects of manufacturing approaches for pharmaceuticals and high-value chemicals

### Course Structure

#### Compulsory Classes

- Generic Biomedical and Pharmaceutical Research Skills
- Continuous Manufacturing of Pharmaceutical Particles and Products
- Crystallisation and Formulation for Manufacture
- Industrial Pharmacy
- Pharmaceutical Project Management
- Process Analytical Technology and Quality by Design in Continuous Pharmaceutical Manufacturing

#### Research Project

In addition, students undertake a 10-week research project, either at the University or at an external company or organisation, and submit a thesis.

#### Course Duration

12 months full-time; 24 months part-time

#### Entry Requirements

Second-class Honours degree, or overseas equivalent, in science or engineering.

## Biomedical Sciences

MSc

### Why study this programme at Strathclyde?

- Opportunity to select a clinical-oriented or basic life science research pathway
- Develop skills in statistics, communication, ethics, science writing and experimental data analysis
- Gain experience in the research funding process

### Course Structure

#### Compulsory Classes

- Generic Skills for Biomedical and Pharmaceutical Students
- Entrepreneurship
- Advanced Techniques in Biomedical Research
- Advanced Topics in Biomedical Research

#### Optional Classes

- *In Vivo* Biology (practical class)
- Drug Discovery (practical class)
- Toxicoicological Analysis (practical class)
- Postgraduate Studies in Microbiology/Haematology/Clinical Biochemistry/Pathology/Biochemistry/Pharmacology/Immunology

#### Research Project

In addition, students undertake a three-month research project which is assessed through a written thesis.

#### Course Duration

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in a biological or chemical discipline.

## Industrial Biotechnology

MSc

### Why study this programme at Strathclyde?

- Develop your career in an emerging industry
- Undertake a three-month placement and research project with an industry partner
- Benefit from the expertise of staff from academic institutions across Scotland and industrial partners

### Course Structure

#### Compulsory Classes

- Introduction to Industrial Biotechnology and its Governance
- Bioprocessing
- Applied Biocatalysis
- Synthetic Biology
- Bioinformatics
- Introduction to Scientific Programming
- Downstream Processing

#### Optional Classes

- Blue Biotechnology
- Renewable Energy Technologies
- Resource Efficient Formulation
- Case Studies in Supply Chain Management
- Advanced Project Management

#### Research Project

In addition, students undertake a three-month placement, typically hosted in one of our industry partners, working on an industrially-relevant project on which they write and present a formal report.

#### Course Duration

12 months full-time; 24 months part-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in biology, biotechnology, chemistry, chemical engineering or a related subject.

Other qualifications and industrial experience may be considered.

## Pharmaceutical Analysis

MSc

### Why study this programme at Strathclyde?

- Gain skills in the analytical techniques used to detect, identify and quantify drugs and related substances
- Examine strategies for analytical research and development
- Gain experience in instrumentation and techniques

### Course Structure

#### Compulsory Classes

- Chemical and Statistical Analysis
- Spectrophotometric and Spectroscopic Methods
- Chromatography
- Bioanalysis, Biotechnology and Quality Management (lab class)
- Chemical and Spectroscopic Methods (lab class)
- Chromatographic and Bioanalytical Methods

#### Research Project

In addition, students undertake a laboratory-based research project either in house or at an external collaborative partner.

#### Course Duration

12 or 24 months full-time, depending on entry qualifications.

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in an appropriate science.

## Pharmaceutical Quality and Good Manufacturing Practice

MSc

### Why study this programme at Strathclyde?

- A unique collaboration with NSF Health Sciences, leading experts in the pharmaceutical and medical devices industries
- Gain understanding of the pharmacology and chemistry of medicinal products

### Course Structure

#### Compulsory Classes

The training, based on the European-approved study guide, is provided in a unique collaboration with NSF Pharma-Biotech who organise the classes. The theoretical elements are usually held at a venue in York and the practical element at the University of Strathclyde.

- Pharmaceutical Law and Administration
- Medicinal Chemistry and Therapeutics
- Pharmaceutical Formulation and Processing
- Pharmaceutical Microbiology
- Active Pharmaceutical Ingredients
- Mathematics and Statistics
- Analysis and Testing
- Pharmaceutical Packaging
- Quality Management Systems
- Investigational Medicinal Products
- The Role and Professional Duties of a QP
- Practical (at the University of Strathclyde)

#### Research Project

Students undertake a research project, normally at their workplace.

#### Course Duration

24 months part-time

#### Entry Requirements

Relevant first degree in a pharmaceutical, biological or chemical discipline, or equivalent and, preferably, experience in the pharmaceutical industry.

Registration with NSF Pharma-Biotech ([www.nsf.org/services/by-industry/pharma-biotech](http://www.nsf.org/services/by-industry/pharma-biotech)) and payment of their fee for each module is essential, in addition to registration with the University.

## Pharmacy Practice

MSc

### Why study this programme at Strathclyde?

- Gain an overview of pharmacy practice in the UK
- Spend 50% of your time in professional experiential learning
- Develop understanding of contemporary clinical pharmacology and pharmacokinetics

### Course Structure

There are two parts to the course – one half will be spent on campus undertaking taught classes and the other in the National Health Service.

#### Compulsory Classes

- Essential Clinical Therapeutics
- Health Service: Quality Improvement
- Pharmaceutical Services
- Clinical Pharmacy Management
- Advanced Clinical Therapeutics

#### Experiential Learning

This part of the course is mainly delivered in NHS hospitals, with specialist material delivered in community pharmacies. It is assessed as a single class but underpins the teaching and learning in the other classes.

#### Course Duration

18 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in Pharmacy.

# BUSINESS

# WE ARE STRATHCLYDE BUSINESS SCHOOL

**Strathclyde Business School (SBS) is an innovative and entrepreneurial organisation defining and influencing business and management education as part of a leading international technological university. Over the last 30 years we have established international centres in Greece, Switzerland, UAE, Oman, Bahrain, Singapore and Malaysia.**

Our departments and specialist units collaborate to provide innovative and varied specialist and cross-disciplinary courses. We are known for our innovation in business education, pioneering the study of marketing and the first one-year MBA programme in the UK. More recently, we have launched programmes such as Entrepreneurship, Innovation and Technology, Project Management and Innovation, Global Energy Management, and Global Sustainable Cities.

The Hunter Centre for Entrepreneurship, endowed by Sir Tom Hunter, is a key component of the Scottish entrepreneurial ecosystem. It was fundamental to our Small Business Charter Gold Award, one of only five across the UK, which reflects the difference our world-leading support makes for scaling Scottish firms.

We are a triple accredited business school – one of only 74 in the world (2016), to be accredited by AMBA, AACSB and EQUIS. Our departments and programmes also hold internationally-recognised industry accreditations:

- Human Resource Management is a CIPD-approved centre
- Accounting and Finance is accredited by CIMA and ICAS
- Marketing is accredited by the Institute of Export, Chartered Institute of Marketing and the Market Research Society
- Our Hospitality and Tourism degrees are accredited by the Institute of Hospitality

We develop theory-led, policy-relevant research through collaboration with industry, government, business and the third sector. Our industry-facing

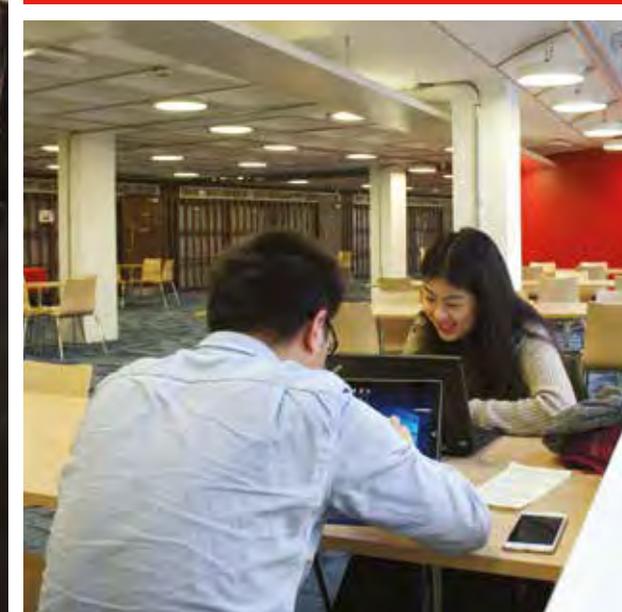
research centres of excellence which work with industry partners include the Fraser of Allander Institute, the Scottish Centre for Employment Research, the Strathclyde Institute for Operations Management and the Centre for Financial Regulation.

SBS was rated in the top 10 business schools in the UK for its research in the Research Excellence Framework, which measures the quality and breadth of research. Our research was particularly strong in terms of its impact on practice in business.

**Contact**  
SBS Student Recruitment and Marketing Unit  
t: +44 (0)141 553 6118/9  
e: [sbs.admissions@strath.ac.uk](mailto:sbs.admissions@strath.ac.uk)



We are the  
**number 1**  
Business School  
in Scotland.



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# Research & Faculty Degrees

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## RESEARCH DEGREES

MRes, MPhil, PhD, DBA

## TAUGHT COURSES

Research Methodology in Business and Management  
Master of Business Administration (MBA)

Strathclyde Business School offers an impressive portfolio of general and specialised business degrees. The following programmes attract teaching and academic input from across the School, and from other partner institutions.

### Research Degrees Training and Support

Research degrees (MRes, MPhil, PhD and DBA) are offered in all academic departments (see departmental sections for key research themes). The Research Methodology programme provides a grounding in research methodologies in management disciplines. Candidates undertake a set of core research methodology classes, generally in their first year of study; other classes in research skills and training are available. In addition, the University's Researcher Development programme provides workshops, courses and events to enhance professional and personal development.

### Research Funding

The University offers a variety of fully-funded studentships, all of which are competitive and tenable for three years' full-time study. They cover applicable fees, plus an annual stipend of approximately £14,000. Candidates should hold a first-class Honours undergraduate degree, or a Masters degree with Distinction, in a relevant business and management or related social science discipline.

### Doctor of Business Administration (DBA)

The DBA degree is offered in all departments of the Business School. It combines advanced instructional elements with original research at doctoral level. With a focus on researching in a practical context, it will appeal to experienced managers; projects will be defined by their interest in the real-time dynamic processes and practices of organisation and management. Instructional elements include classes in Research Methods, Research Philosophy and specialist topics relevant to your research. Research elements comprise literature review, pilot study, and supervised research leading to a thesis of 50,000 - 60,000 words.

### DBA Entry Requirements

Masters or Honours degree, or equivalent overseas qualification, and business and management experience appropriate to the research being undertaken.

## Research Methodology in Business and Management

MRes/PgDip/PgCert

### Why study this programme at Strathclyde?

- Suitable as a foundation course for a PhD in business and management
- Study full-time or part-time
- Choose from classes across the Business School
- Research training following ESRC and EPSRC guidelines

### Course Structure

#### Compulsory and Optional Classes

- Research Philosophy
- Research Methods
- Interdisciplinary Collaborative Research
- Introduction to Quantitative Methods: Survey Design and Analysis
- Advanced Quantitative/Qualitative Methods
- Research Colloquium
- Writing and Presenting Research
- Choice of classes from across the Business School

#### Masters Dissertation

Masters students submit a dissertation of around 20,000 words.

#### Programme Duration

**MRes:** 12 months full-time

**PgDip:** 9 months full-time

**PgCert:** 4 months full-time

The course is offered on a full-time or part-time basis. Classes run for two to five consecutive days once a month from October to May. Students studying part-time will be able to complete their programme over two academic years

#### Entry Requirements

Masters degree or a first- or upper second-class Honours degree, or overseas equivalent, in business and management.

#### Contact

Natalie Wilson

t: +44 (0)141 553 6147

e: natalie.l.wilson@strath.ac.uk

## Master of Business Administration

MBA

### Why study this programme at Strathclyde?

- Gain an internationally-recognised qualification
- Learn in a cross-cultural environment
- Study strategy with internationally-acclaimed academics
- Develop confidence as a manager and leader
- Improve your career prospects or change career direction

### Study Themes and Classes

#### The Reflective Practitioner

- The Learning Manager
- Comparative Corporate Governance
- Entrepreneurial Management and Leadership

#### Making the Business Work

- Finance and Financial Management
- Financial and Management Accounting
- Operations Management
- Marketing Management
- Analytical Support for Decision-making
- Managing People in Organisations

#### Strategic Management for Sustainable Success

- Exploring the International Business Environment
- Strategy Analysis and Evaluation
- Making Strategy
- Technology and Innovation

#### Personal Development

- Strategic Consulting in Practice – you work as part of a team for a client on an organisational issue; the client will have significant input into the evaluation of the class and your team's performance
- Elective classes – choose from more than 25 classes taught by subject specialists; alumni can choose one additional elective each year for three years post-graduation at no additional cost

#### MBA Project

The MBA project provides an opportunity to examine in depth a managerial, organisational or environmental issue of your choice over an extended period of time. It can be done on an individual basis or as part of a group. The project enables you to put into practice the knowledge and skills you have developed throughout the programme. We have close links with industry and can offer a number of company-sponsored projects many of which can lead to internships.

### Professional Development Journey

As part of our MBA career support we offer a Career and Professional Development Programme, designed to establish career development and job search skills. Workshops and seminars are offered on key career skills such as interviews, presentations, networking and CV building. Our students have access to an accredited careers and leadership coach to work on personal career strategies. All students and alumni have access to our online Career Management Site.

### Flexible Study Options

The Strathclyde MBA is very flexible; study options include:

- full-time (12 months intensive study in Glasgow)
- part-time/executive (evening classes in Glasgow over two to three years or at the Business School's eight international centres)
- flexible learning (combination of off-campus study combined with intranet tutor support and attendance at intensive seminars in Glasgow, three to five years)

We also offer an MBA with a specialism in Leadership Studies, in association with the Leadership Trust Foundation, offered via our flexible learning route.

### Entry Requirements

A good first degree is expected and applicants must be at least 24 years old, have a minimum of three years' postgraduate managerial/professional experience and be able to demonstrate career progression.

Applicants who hold non-degree/professional qualifications, are expected to have at least five years' varied management/professional experience with demonstrable career progression.

Candidates with no formal qualifications require extensive and varied managerial/professional experience of 10 years or more, with sustained career progression.

For applicants whose first language is not English, an IELTS minimum overall band score of 6.5 (with no individual test score below 5.5).

Strong verbal reasoning and numerical abilities are critical for the MBA and we may ask for a GMAT result (min 600).

Candidates will be interviewed.

#### Contact

t: +44 (0)141 553 6118/9

e: sbs.admissions@strath.ac.uk

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## Department of Accounting and Finance

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### RESEARCH DEGREES

MPhil in Accounting or Finance  
PhD in Accounting or Finance

### Contact for Research Degrees

**Accounting:** Dr Julia Smith  
t: +44 (0)141 548 4958  
e: julia.smith@strath.ac.uk

**Finance:** Dr Chandra Thapa  
t: +44 (0)141 548 3891  
e: chandra.thapa@strath.ac.uk

### TAUGHT COURSES

Finance/Finance (part-time Oman)/(part-time Tanzania)  
International Accounting and Finance

International Banking and Finance

Investment and Finance

Finance and Law

Finance and Management

Economics and Finance (in collaboration with the  
Department of Economics, see pg 150 for course  
description)

Quantitative Finance (in collaboration with the Departments  
of Mathematics & Statistics and Computer & Information  
Sciences)

### Contact for Taught Courses

SBS Student Recruitment and Marketing Unit  
t: +44 (0)141 553 6118/9  
e: sbs.admissions@strath.ac.uk

MSc Finance, MSc International Accounting and Finance, MSc International Banking and Finance and MSc Investment and Finance have all been accepted into the Chartered Financial Analyst (CFA) Institute University Recognition Program. This status is granted to institutions whose degree programme(s) incorporate at least 70% of the CFA Programm Candidate Body of Knowledge (CBOK), and which provide students with a solid grounding in the CBOK and positions them well to sit for the CFA exams.

The Department has been ranked 1st in the UK for Accounting and Finance by the Complete University Guide for 2017. It is one of the UK's major centres of research in finance and has an international profile.

### Research Areas

We cover all areas of accounting and finance, with particular expertise in corporate finance, treasury management, derivative markets, bond markets, portfolio performance, volatility in financial markets, international banking, critical accounting, management accounting, social, environmental and public sector accounting, issues relating to privatisation and regulation of utilities, development finance and small business finance and accounting.

Our research activities are supported by subscription to an extensive set of comprehensive databases, internal workshops, seminar series and financial support for conference participation.

### Accounting

Research topics include:

- economic, political and social impact of accounting on our everyday lives
- financial reporting standard for smaller entities
- assessment of environmental risk in the financial sector

### Finance

Research topics include:

- investment strategies
- corporate finance
- risk management
- corporate governance
- financial econometrics

### Facilities for Research Students

Students have access to the Datastream (global economic, financial and accounting data) which includes IBES earnings forecasts, SDC Platinum, Thomson One, Compustat, Execucomp, CRSP (Centre for Research in Securities Pricing), London Business School Share Price Database data and Bloomberg.

### Entry Requirements for Research Degrees

**PhD in Accounting:** Honours degree and Masters degree in accounting (or equivalent). Qualified and part-qualified accountants with first degree in social sciences or humanities are also encouraged to apply.

**PhD in Finance:** Masters degree or equivalent, particularly in finance, economics, accounting or mathematics. Candidates with undergraduate degrees, equivalent to first-class Honours in these disciplines will also be considered.



## Finance

MSc/PgDip

### Why study this programme at Strathclyde?

- Accredited by the Chartered Institute of Management Accountants
- Develop understanding of financial theory and analysis
- Learn about financial markets and institutions
- Specialise in finance for developing countries

### Course Structure

#### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- Quantitative Methods for Finance
- International Financial Markets and Banking
- Advanced Corporate Finance and Applications
- Derivatives and Treasury Management

#### Optional Classes (two to be chosen)

- Security Analysis
- Portfolio Theory and Management
- Empirical Methods in Finance
- Behavioural Finance
- Management Accounting

**Dissertation or three research projects (MSc only)** – supported by an academic supervisor, you will either work on a series of research projects or a dissertation. Topics can be chosen from the broad range of issues covered on the programme. You will be assessed on your ability to select and apply relevant theory and research methods. This work may be linked to an issue raised by, or a problem to be solved for, an employer.

Diploma students who achieve an appropriate standard may transfer to the MSc.

#### Duration of Programme

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

#### Entry Requirements

An Honours degree, or overseas equivalent, in accounting, economics, business studies or a subject area with a strong quantitative bias.

The programme requires no prior knowledge of finance.

## International Accounting and Finance

MSc/PgDip

### Why study this programme at Strathclyde?

- Accredited by the Chartered Institute of Management Accountants
- Gain awareness of international accounting standards
- Study financial management and securities markets
- Learn to apply analytical techniques in practice

### Course Structure

#### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- Quantitative Methods for Finance
- International Financial Markets and Banking
- Advanced Corporate Finance and Applications
- Advanced Accounting
- Management Accounting

#### Optional Classes (one to be chosen)

- Security Analysis
- Portfolio Theory and Management
- Empirical Methods in Finance
- International Accounting

**Dissertation or three research projects (MSc only)** – supported by an academic supervisor, you will either work on a series of research projects or a dissertation. Topics can be chosen from the broad range of issues covered on the programme. You will be assessed on your ability to select and apply relevant theory and research methods. This work may be linked to an issue raised by, or a problem to be solved for, an employer.

Diploma students who achieve an appropriate standard may transfer to the MSc.

#### Duration of Programme

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

#### Entry Requirements

Upper second-class Honours degree, or overseas equivalent, in accounting, economics, business studies, maths, statistics or computing.

## International Banking and Finance

MSc/PgDip

### Why study this programme at Strathclyde?

- Accredited by the Chartered Institute of Management Accountants
- Understand financial theory and analysis
- Learn about financial markets and institutions
- Use accounting information in financial decision-making

### Course Structure

#### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- Quantitative Methods for Finance
- International Financial Markets and Banking
- Topics in Corporate Finance
- Financial Management for Banks
- Derivatives and Treasury Management
- Risk Management for Banks

#### Optional Classes (one to be chosen)

- Security Analysis
- Portfolio Theory and Management
- Empirical Methods in Finance
- Management Accounting
- Behavioural Finance

**Dissertation or three research projects (MSc only)** – supported by an academic supervisor, you will either work on a series of research projects or a dissertation. Topics can be chosen from the broad range of issues covered on the programme. You will be assessed on your ability to select and apply relevant theory and research methods. This work may be linked to an issue raised by, or a problem to be solved for, an employer.

Diploma students who achieve an appropriate standard may transfer to the MSc.

#### Duration of Programme

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

#### Entry Requirements

An Honours degree, or overseas equivalent, in accounting, economics, business studies or a subject area with a strong quantitative bias.

The programme requires no prior knowledge of finance or banking.

## Investment and Finance

MSc/PgDip

### Why study this programme at Strathclyde?

- Accredited by the Chartered Institute of Management Accountants
- Gain understanding of derivatives
- Learn to develop investment strategies
- Understand quantitative analysis used in finance

### Course Structure

#### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- Quantitative Methods for Finance
- International Financial Markets and Banking
- Topics in Corporate Finance
- Derivatives and Treasury Management
- Security Analysis
- Portfolio Theory and Management

#### Optional Classes (one to be chosen)

- Empirical Methods in Finance
- Behavioural Finance

**Dissertation or three research projects (MSc only)** – supported by an academic supervisor, you will either work on a series of research projects or a dissertation. Topics can be chosen from the broad range of issues covered on the programme. You will be assessed on your ability to select and apply relevant theory and research methods. This work may be linked to an issue raised by, or a problem to be solved for, an employer.

Diploma students who achieve an appropriate standard may transfer to the MSc.

#### Duration of Programme

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

#### Entry Requirements

A good undergraduate degree, in areas such as accounting, economics, business studies or a subject area with a strong quantitative basis. Applications are also considered from those with appropriate professional qualifications and relevant practical experience.



**Nick Deaver**  
MSc International Banking  
and Finance

I chose to come to Strathclyde from the USA because of its high ranking and banking-specific programmes.

Our professor worked in the finance industry which allowed him to pass on real-world examples to the class. Analysing a company from the standpoint of an investor and examining the LIBOR scandal from a risk perspective of a bank are two examples of real-world practical assignments. The projects are challenging and rewarding because I have learned so much.

The small number of students on the programme has allowed us to engage with one another and create lasting friendships.

## Finance and Law

MSc

### Why study this programme at Strathclyde?

- Combine knowledge of the legal aspects of international finance with the principles of accounting and finance
- Understand elements of corporate and financial theory
- Learn to analyse and evaluate arguments
- Undertake a project in each subject area

### Course Structure

The programme is offered jointly by the Department of Accounting & Finance and the Law School.

#### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- International Banking Law
- Advanced Corporate Finance and Applications
- Financial Regulation and Compliance

#### Optional Classes

- Behavioural Finance
- Security Analysis
- Risk Management for Banks
- Financial Management for Banks
- Portfolio Theory Management
- Derivatives
- Contemporary Employment Relations
- Labour Law in the Global Economy
- Comparative Company Law
- World Trade Law
- UK and EU Environmental Law
- International Environment Law
- Law of International Business
- International Investment Law
- E-Commerce
- Arbitration Law
- Intellectual Property Law

#### Masters Project

Students complete a research project in each subject.

#### Duration of Programme

12 months full-time

#### Entry Requirements

Upper second-class Honours degree, or overseas equivalent, in accounting, economics, business studies, maths, statistics, computing, related subjects, or an equivalent professional qualification.

## Finance and Management

MSc

### Why study this programme at Strathclyde?

- Gain knowledge of financial and management principles
- Understand how organisations work
- Develop technical and analytical skills
- Opportunity to study at Toulouse Business School
- Undertake a project in each subject area

### Course Structure

The programme is offered jointly by the Departments of Accounting & Finance and Strategy & Organisation.

#### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- International Financial Markets and Banking
- Professional Management Practice

#### Optional Classes

##### Finance

- Behavioural Finance
- Topics in Corporate Finance
- Security Analysis
- Managerial Accounting
- Derivatives

##### Management

- Global Business Environment
- Project and Programme Management
- Developing Effective Consulting Skills
- Managing in Europe
- Marketing Management

#### Masters Project

Students complete a research project in each subject.

#### Duration of Programme

12 months full-time

#### Entry Requirements

An upper second-class Honours degree, or overseas equivalent, in economics, accounting, business studies, maths, statistics, computing, related subjects, or an equivalent professional qualification.

## Quantitative Finance

MSc

### Why study this programme at Strathclyde?

- Prepare for a career in financial engineering and risk management, hedge fund manager or financial analyst
- Understand numerical methods in finance
- Study programming for financial applications
- Undertake an industrial-based project

### Course Structure

This one-year cross-faculty programme draws on expert input from three departments – Accounting & Finance, Mathematics & Statistics, and Computer & Information Sciences.

### Compulsory Classes

- Foundations of Mathematical and Statistical Finance
- Principles of Finance
- International Financial Markets and Banking
- Foundations of Computer Science

### Optional Classes (one to be chosen from each list)

#### List A

- Behavioural Finance
- Security Analysis
- Portfolio Theory and Management
- Derivatives and Treasury Management

#### List B

- Database and Web Systems Development
- Business Analytics
- Evolutionary Computation for Finance

#### List C

- Financial Stochastic Processes
- Financial Econometrics
- Games and Networks in Finance

### Duration of Programme

12 months full-time

### Entry Requirements

An Honours degree, or overseas equivalent, in accounting, economics, engineering, business studies or a subject area with a strong quantitative element. Applications are also welcome from those with appropriate professional qualifications, or those who can demonstrate relevant practical experience.

## Department of Economics

### RESEARCH DEGREES

PhD, MPhil, DBA

### Contact for Research Degrees

t: +44 (0)141 548 3871

e: pgecon@strath.ac.uk

### TAUGHT COURSES

Applied Economics

Economics and Finance

Global Energy Management

Global Sustainable Cities

### Contact for Taught Courses

SBS Student Recruitment and Marketing Unit

t: +44 (0)141 553 6118/6119

e: sbs.admissions@strath.ac.uk

The Department has a strong focus on internationally-recognised policy-relevant research. We host the Fraser of Allander Institute, which carries out research on regional issues and the Scottish economy. Our research has been supported by a variety of organisations including EPSRC, Scottish Enterprise and the Department for Environment, Food and Rural Affairs.

Our research group is one of the largest in the UK and staff are engaged in collaborations with research economists in universities throughout the UK, and in overseas institutions. Research is also actively supported through the events and activities of the Scottish Institute for Research in Economics. In addition, the Department jointly organises (with Johannes Kepler University Linz) the European Trade Study Group, the world's largest annual conference on international trade.

The Department is an active participant in the Scottish Graduate Programme in Economics (SGPE). As members of the SGPE, we play an active role in the Scottish Graduate School of Social Science, an ESRC-funded Doctoral Training Centre. This allows us to put students forward for funding through the Economics pathway and the Environment, Energy and Climate Change pathway.

### Research Areas

#### Applied Microeconomics

Our research analyses the market behaviours of consumers and businesses. We apply them to areas such as industrial organisation and international trade. Research areas include international trade theory and policy, public economics, and strategic behaviour in markets.

#### Applied Econometrics

We apply statistical and mathematical theories to economics in order to test ideas and forecast regional, national and global trends. Our research covers fields such as big data methods in macroeconomics, multiple imputation methods for cross-country panel data, foreign direct investment and economic growth, time series econometrics and spatial econometrics for environmental and criminological applications.

#### Regional Economics

Research examines the relationships between regional and national economies. Areas of research include economics of constitutional change, modelling the Scottish economy, spatial econometrics and regional nowcasting, regional policy evaluation, local, regional and national impacts of energy policy and environmental accounting, migration and demographic change, and the determinants of happiness, as applied to Scotland.

#### Energy Economics

We look at the economics of renewable energy in response to the policy and practical interests of both the Scottish and UK governments. Research interests cover fields such as energy-economy-environmental modelling, energy efficiency, local, regional and national impacts of new renewable technologies, carbon markets and environmental standards, sustainable cities, energy policy and regulation, economics of climate change, environmental policy and accounting.

## Applied Economics

MSc/PgDip

### Why study this programme at Strathclyde?

- Study the fundamental principles of economic analysis
- Gain an understanding of micro and macroeconomic theory
- Learn to apply economic theory to policy development
- Acquire skills in statistical and econometric modelling

### Course Structure

#### Compulsory Classes

- Foundations of Microeconomics
- Further Topics in Microeconomics
- Macroeconomics for the Business Environment
- Macroeconomics for the Global Business Environment
- Analysis of Economic Data
- Quantitative Methods
- Principles of Economic Appraisal
- Economic Appraisal of Programmes and Policies

**Optional Classes** (four to be chosen – two may be substituted with classes offered elsewhere in the Business School)

- Fundamentals of Business Economics
- International Trade and Policy
- Games of Strategy
- Environmental Economics
- Energy Economics

#### Dissertation

Dissertation topics can be chosen from within the broad range of issues covered on the programme. Preparation for this component will include participation in the Economics and Finance forum, which includes opportunities to benefit from the experience of economics and finance professionals from business, academia and government.

#### Duration of Programme

12 months full-time; 24 months part-time

#### Entry Requirements

A good Honours degree, or overseas equivalent.

## Economics and Finance

MSc

### Why study this programme at Strathclyde?

- Enhance your knowledge and skills in a range of economics, finance, analysis and quantitative methods
- Learn to analyse, understand and explain complex economic and financial issues
- Develop specialised skills through choice of options

### Course Structure

The programme is jointly offered by the Department of Economics and the Department of Accounting & Finance.

#### Compulsory Classes

- Foundations of Microeconomics
- Macroeconomics for the Business Environment
- Analysis of Economic Data
- Further Topics in Microeconomics
- Principles of Finance
- Accounting and Financial Analysis
- Macro for the Global Business Environment
- Quantitative Methods
- Advanced Corporate Finance and Applications OR Derivatives and Treasury Management

#### Optional Classes

Students will be able to choose from classes from across the Departments of Economics and Accounting & Finance.

#### Dissertation

Students undertake a challenging problem-focused or policy-relevant analysis and project. Preparation for this component will include participation in the Economics and Finance forum, which includes opportunities to benefit from the experience of economics and finance professionals from business, academia and government.

#### Duration of Programme

12 months full-time; 24 months part-time

#### Entry Requirements

Upper second-class Honours degree, or overseas equivalent, in economics, finance, business studies and management science. Applications are also welcomed from candidates with strong career experience in a relevant field.

## Olivia McGregor

MSc Global Energy Management

I wanted to gain an understanding of the energy industry from a commercial perspective and I was awarded the Scottish Power scholarship that sponsors this course.

I have enjoyed the diversity of the student group and benefiting from the views of different academic disciplines and cultures. A highlight of the course is the energy forum hosted by the University where we were able to debate with industry professionals on topical issues in the energy sector. Visits to companies within the sector have supported this practical application of our learning.

Having a spread of knowledge over the political, financial, regulatory, technological and international aspects of the energy industry impresses potential employers. These skills helped me to secure a graduate role as an energy economist in a global consulting firm in London.



## Global Energy Management

MSc

### Why study this programme at Strathclyde?

- Acquire in-depth knowledge of global energy systems
- Benefit from practical training in the management of energy-related issues
- Gain practical insights from leading energy experts
- Accredited by the Energy Institute

### Course Structure

#### Compulsory Classes

- Global Energy Issues, Industries and Markets
- Global Energy Technologies, Impacts and Implementation
- Global Energy Policy, Politics, Business Structures and Finance
- Global Energy Forum
- Energy Economics
- Microeconomics OR Macroeconomics

#### Optional Classes

Choose from classes available in the Business School, Faculty of Engineering and the Faculty of Humanities & Social Sciences.

#### Summer Project

The summer project can take two forms – the research route and the industrial route. Both routes help students gain more problem-focused experience of relevance to the energy sector. In addition, both routes will enable and require students to apply knowledge gained on the course.

#### Duration of Programme

12 months full-time; 24 months part-time

#### Entry Requirements

Upper second-class Honours degree, or overseas equivalent. Applications are also welcome from candidates with significant high-calibre industry or government experience.

## Global Sustainable Cities

MSc

### Why study this programme at Strathclyde?

- Focus on major urban opportunities and issues
- Develop skills to lead the design and delivery of sustainable city strategies
- Undertake two project placements
- Learn from staff across multiple disciplines

### Course Structure

#### Compulsory Classes

- Global Cities: Society and Sustainability
- City Systems and Infrastructure
- Understanding and Modelling Cities
- City Design and Planning
- Public Policy, Governance and Strategic Change in Cities
- Business Models, Financing and Urban Business Case Analysis
- Leadership Skills for Urban Change
- Urban Theory

#### Optional Classes

Choose from classes across the University to develop skills in specific areas.

#### Placement Projects

You undertake two challenging problem-focused projects, applying your skills and learning within a professional working environment. Placements may be in the UK or overseas.

#### Duration of Programme

12 months full-time; 24 months part-time

#### Entry Requirements

Upper second-class Honours degree, or overseas equivalent, in a relevant subject. Applications are also welcomed from candidates with strong career experience in a relevant field.

## Department of Human Resource Management

### RESEARCH DEGREES

MRes, MPhil, PhD, DBA

### Contact for Research Degrees

Jean Nelson

t: +44 (0)141 548 3287

e: jean.nelson@strath.ac.uk

### TAUGHT COURSES

Human Resource Management (full-time/part-time)

Human Resources and International Management

International Human Resource Management

Managing Human Resources (Oman)

### Contact for Taught Courses

SBS Student Recruitment and Marketing Unit

t: +44 (0)141 553 6118/6119

e: sbs.admissions@strath.ac.uk

The Department of Human Resource Management has a broad focus on human resources, organisational behaviour and industrial relations. We undertake research in a range of international and UK public, private and voluntary sector organisations. The Scottish Centre for Employment Research, one of the UK's leading contributors on workplace innovation, sits within the Department, as does the editorship of three leading international journals – *New Technology, Work and Employment*, *Employee Relations*, and the *Human Resource Management Journal*. The Department is a Chartered Institute of Personnel and Development (CIPD) Approved Centre and provides programmes leading to professional membership of CIPD.

### Research Areas

#### Skills, labour power and workplace innovation

Research focuses on how work is organised and what kind of skills are required by employers. Current themes include:

- skill ecosystems and occupational change
- skill utilisation, conversion and mismatch
- HR development and training, recruitment and selection
- employability, under-employment
- education, work, career transitions

#### Regulation and restructuring of employment relations

Changing managerial regimes is a focus of our research, with a particular emphasis on issues such as employee participation and voice, union bargaining strategies and the management of performance and its effects on employee wellbeing. Current projects include:

- global value and commodity chains
- patterns of labour migration

- performance management
- lean working
- new managerial regimes in social care
- work reorganisation control and wellbeing
- union strategies and organising, industrial relations disputes

#### Labour market disadvantage

Changes in employment and industry restructuring is a new focal point for our research. Project themes include:

- young people and work
- gender, careers and occupational segregation; monitoring of equal opportunities
- precariousness and insecurity
- migrant divisions of labour

#### New and contested technologies at work

Themes include:

- social media, uses and abuses
- technology, sustainability and green jobs
- technological and organisational change, impacts on occupational boundaries

#### Work, health and wellbeing

Research includes studies on employee experiences of, and attitudes towards, changing forms of work and management; employee involvement and participation; occupational health and safety; work-life boundaries; and experiences of unemployment and return to work. Current project themes include:

- sickness absence, presenteeism and employer practice
- work intensification, job strain and stress
- shiftwork, occupational safety behaviour and climate
- psychology of risk and trust in high-hazard/safety critical organisations
- ageing workforce, extending working life, health and capability

## Human Resource Management

MSc (full-time)

### Why study this programme at Strathclyde?

- Combine theory and practice in the study of organisations and the management of work
- Suitable for those preparing for a career in HR
- Gain professional membership of the Chartered Institute of Personnel and Development

### Course Structure

#### Compulsory Classes

- HRM in a Business Context
- Leading, Managing and Developing People
- Employee Relations
- People Resourcing
- Employee Reward
- Critical Issues in Human Resource Management
- Business Skills Development

#### Optional Classes (one to be chosen)

- Employment Issues and the Law
- Labour and Diversity in a Global Context
- Managing Human Resources in Multinationals

#### Integrated Dissertation and Research Report

Students complete a research project based on the analysis of a human resources issue in an organisation. Assistance is given by the Department to gain access to an organisation to complete the Integrated Dissertation and Research Report. Students who are unable to gain access to an organisation will use a case study approach.

#### Duration of Programme

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in social science or a business-related discipline.

## Human Resource Management

MSc/PgDip (part-time)

### Why study this programme at Strathclyde?

- Develop an advanced level of knowledge related to HR
- Suitable for HR professionals or line managers with people management within their role
- Gain professional membership of the Chartered Institute of Personnel and Development

### Course Structure

#### Compulsory Classes (Year 1)

- HRM in a Business Context
- Leading, Managing and Developing People
- People Resourcing
- Employee Reward
- Business Skills Development 1

#### Compulsory Classes (Year 2)

- Contemporary Employment Relations
- Critical Issues in Human Resource Management
- Research Methods
- Business Skills Development 2

In addition, one optional class is chosen (see left).

#### Management Research Report

PgDip students complete a 7,000-word Management Research Report, on an HR issue within their place of work.

#### Integrated Dissertation and Research Report

MSc students complete an Integrated Dissertation and Research Report, also based on a live human resources issue and usually based within their place of work.

#### MSc (post-diploma)

Following the Postgraduate Diploma, students may continue to the MSc, participating in a series of research methods workshops and completion of a 15,000-word dissertation.

#### Duration of Programme

**PgDip:** 24 months part-time; **MSc:** 24 - 30 months part-time  
**MSc (post-diploma):** additional 12 months part-time

#### Entry Requirements

**MSc/PgDip:** First degree or equivalent, plus HR or management experience; other qualifications may be considered

**MSc (post-diploma):** PgDip in HRM from Strathclyde or equivalent CIPD-approved qualification from another UK university. Candidates with a CIPD-awarded advanced qualification may also be considered.

## Human Resources and International Management

MSc

### Why study this programme at Strathclyde?

- Study a tailored programme of human resources and business classes
- Suitable for those looking to pursue a career in a management role within a global organisation
- Undertake a research project with an international focus

### Course Structure

#### Compulsory Classes

- HRM in a Business Context
- Managing Human Resources in Multinationals
- Comparative Employment Relations
- Labour and Diversity in a Global Context
- Professional Management Practice
- Global Business Environment
- Managing Across Cultures

#### Optional Classes (two to be chosen from a list which may include the following)

- Employment Issues and the Law
- Business Strategy
- People Resourcing
- Employee Reward
- Managing in Europe
- Leadership for Change and Innovation
- Managing Talent and Success Planning

#### Research Project

The project provides the opportunity to apply your learning to a practical situation within an organisation.

#### Duration of Programme

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in any discipline.

## International Human Resource Management

MSc

### Why study this programme at Strathclyde?

- Understand how multinational organisations can best mobilise a culturally-diverse workforce
- Prepare for an HR career in global organisations
- Gain professional membership of the Chartered Institute of Personnel and Development

### Course Structure

#### Compulsory Classes

- HRM in a Business Context
- Leading, Managing and Development People
- Managing Human Resources in Multinationals
- Comparative Employment Relations
- Labour and Diversity in a Global Context
- Critical Issues in Human Resource Management
- Business Skills
- Research Methods

#### Optional Classes (one to be chosen)

- Employee Reward
- People Resourcing
- Employment Issues and the Law

#### Integrated Dissertation and Research Report

Students complete a research project based on the analysis of an international human resources issue in an organisation. Assistance is given by the Department to gain access to an organisation to complete the Integrated Dissertation and Research Report. Students who are unable to gain access to an organisation will use a case study approach.

#### Duration of Programme

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in any discipline.

## Managing Human Resources (Oman)

MSc

### Why study this programme at Strathclyde?

- Consider issues relating to the international context of the workforce in Oman and the wider region
- Study at our International Centre in Oman based in the College of Banking and Finance
- Research your dissertation within your own workplace

### Course Structure

#### Compulsory Classes

- The Reflective Practitioner
- HRM in a Business Context
- Managing People in Organisations
- People Resourcing
- Human Resource Development
- Global Staffing
- Managing Talent and Succession Planning
- Research Methods for HR Professionals

#### Dissertation

MSc students also complete a dissertation with an international focus based on an issue within their own workplace.

#### Duration of Programme

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in any discipline. Applicants will normally be required to have had a period of relevant experience in a human resources or general management position.

## Hunter Centre for Entrepreneurship

### RESEARCH DEGREES

MRes, MPhil, PhD, DBA

#### Contact for Research Degrees

Director of Doctoral Research

Dr Niall MacKenzie

t: +44 (0)141 548 3091

e: niall.mackenzie@strath.ac.uk

### TAUGHT COURSE

Entrepreneurial Finance

Entrepreneurial Management and Leadership

Entrepreneurship, Technology and Innovation

#### Contact for Taught Course

SBS Student Recruitment and Marketing Unit

t: +44 (0)141 553 6118/6119

e: sbs.admissions@strath.ac.uk

The Hunter Centre for Entrepreneurship is a research-oriented academic department with a focus on developing a better understanding of how entrepreneurs and their organisations can more successfully create new value for business and society. Research is conducted by nationally and internationally-recognised experts in high-growth, international, corporate, technology, family, rural, social and female entrepreneurship.

The Centre is a partner in the ESRC co-funded Enterprise Research Centre (in collaboration with Warwick, Aston and Imperial Business Schools).

We are at the heart of the Global Entrepreneurship Monitor (GEM) research programme, an annual assessment of levels of entrepreneurial activity in dozens of economies. The Centre has played a significant role in the international organisation of GEM since 2000 and is responsible for the Country Report for Scotland and, jointly with Aston Business School, the UK Report.

Researchers participate in a range of projects which are funded by the EU (business start-up, technology commercialisation, and growth rates), as well as funding councils in Norway (enterprise diversity, farm-based innovation, and family business succession) and in New Zealand (social entrepreneurship).

The Centre's international research impact is also evidenced through invited reviews for and editorial contributions to internationally-ranked entrepreneurship research journals, including the *Journal of Business Venturing*, *Entrepreneurship Theory and Practice*, *Small Business Economics*, and the *International Small Business Journal*.

Academic staff and PhD students regularly present their work at international conferences such as the Babson Kauffman Entrepreneurship Research Conference, the ECSB Research in Entrepreneurship and Small Business conference, the European Academy of Management conference and the US Academy of Management conference.

The international character of the Centre is also reflected in the heritage of many of our academic staff (Germany, Greece, Italy, Ireland, Bulgaria, US and Kenya) and of our PhD students (Botswana, Canada, Germany, Ireland, Kazakhstan, Portugal, Russia, Poland, Greece, Indonesia, Switzerland, the US and the Netherlands). Our academic staff and PhD students regularly engage in university research exchanges in the US, Germany, France and New Zealand and also enjoy visiting posts (Norway, France, Finland, New Zealand).

### Research Themes

- Enterprise policy, education and economic development
- Growing innovative enterprises
- Global and international entrepreneurship
- Entrepreneurial management and leadership
- Enterprise and diversity
- Social enterprise, CSR and philanthropy
- Family business and enterprising households
- Entrepreneurial networking, social capital and society
- Entrepreneurial finance

## Entrepreneurial Finance

MSc

### Why study this programme at Strathclyde?

- Unique hybrid degree that develops financial skills with a focus on issues relating to entrepreneurial firms
- Financial literacy has been identified as a key skills gap within entrepreneurial SMEs
- Engage with leading international ventures

### Course Structure

#### Compulsory Classes

- Principles of Finance
- Accounting and Financial Analysis
- Creativity and Opportunity Development
- Issues and Trends in Entrepreneurship, Innovation and Technology
- New Venture Creation
- Entrepreneurial Leadership and Resource Management
- Advanced Entrepreneurial Finance
- Startup Selling

#### Optional Classes (two to be chosen)

- Brand Management and Strategy
- Foundations of Risk
- Programme and Project Management
- Games of Strategy
- Leadership
- Family Business
- Strategic Financial Management
- Management of International Relationships
- Change Agency
- Developing Skills for Effective Management Consulting
- Social Media: Strategy and Management
- Managing in Europe (Toulouse Business School, France)

#### Virtual Incubator Project

You work on a real-world innovation challenge. Using an innovative virtual platform, Jamii, you will collaborate with the world-leading Canadian technology cluster ecosystem to develop and pitch their solution to potential investors.

#### Duration of Programme

12 months full-time

#### Entry Requirements

Upper second-class Honours degree, or equivalent, in economics, finance, business studies, management science or another quantitative subject. Applications are also welcomed from candidates with strong career experience in a relevant field.

## Entrepreneurial Management and Leadership

MSc

### Why study this programme at Strathclyde?

- Large firms are looking for leaders and managers who can apply entrepreneurial thinking in a corporate setting
- Learn how to manage disruptive change processes resulting from new technologies
- Apply your learning in a hands-on summer project

### Course Structure

#### Compulsory Classes

- Creativity and Opportunity Development
- Issues and Trends in Entrepreneurship, Innovation and Technology
- Managing People in Organisations
- Leadership for Change and Innovation
- Technology and Organisational Change
- Introduction to Entrepreneurial Finance
- Advanced Entrepreneurial Finance
- New Venture Creation
- Entrepreneurial Leadership and Resource Management
- Startup Selling

#### Optional Classes (two to be chosen)

- Brand Management and Strategy
- Foundations of Risk
- Programme and Project Management
- Games of Strategy
- Leadership
- Family Business
- Strategic Financial Management
- Management of International Relationships
- Change Agency
- Developing Skills for Effective Management Consulting
- Social Media: Strategy and Management
- Managing in Europe (taught at Toulouse Business School, France)

#### Virtual Incubator Project

You work on a real-world innovation challenge. Using an innovative virtual platform, Jamii, participants will collaborate with the world-leading Canadian technology cluster ecosystem to develop and pitch their solution to potential investors.

#### Duration of Programme

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in any discipline.

## Entrepreneurship, Innovation and Technology

MSc

### Why study this programme at Strathclyde?

- Combine theoretical knowledge with practical skills
- Study a practical, career-focused programme
- Undertake an innovation challenge project in partnership with Waterloo University, Canada
- Participate in entrepreneurship and innovation prizes

### Course Structure

#### Compulsory Classes

- Creativity and Opportunity Development
- Issues and Trends in Entrepreneurship, Innovation and Technology
- Introduction to Entrepreneurial Finance
- Startup Selling
- Data Lab
- Design Lab
- Sales Lab
- New Venture Creation
- Entrepreneurial Leadership and Resource Management
- Internationalisation and Growth Lab

#### Optional Classes (two to be chosen)

- Brand Management and Strategy
- Foundations of Risk
- Programme and Project Management
- Games of Strategy
- Leadership
- Strategic Financial Management
- Management of International Relationships
- Change Agency
- Developing Skills for Effective Management Consulting
- Social Media: Strategy and Management
- Managing in Europe (taught at Toulouse Business School, France)

#### Virtual Incubator Project

You work on a real-world innovation challenge. Using an innovative virtual platform, Jamii, participants will collaborate with the world-leading Canadian technology cluster ecosystem to develop and pitch their solution to potential investors.

#### Duration of Programme

12 months full-time

#### Entry Requirements

First- or second-class Honours degree, or overseas equivalent, in any discipline.

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# Department of Management Science

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## RESEARCH DEGREES

MRes, MPhil, PhD, DBA

## Contact for Research Degrees

Professor John Quigley

t: +44 (0)141 548 3152

e: j.quigley@strath.ac.uk

## TAUGHT COURSES

Business Analysis and Consulting

Operational Research

## Contact for Taught Courses

SBS Student Recruitment and Marketing Unit

t: +44 (0)141 553 6118/6119

e: sbs.admissions@strath.ac.uk

The Department of Management Science is one of the leading Operational Research (OR) departments in the UK. Research interests of staff span the spectrum of management science activity. Many are internationally-known – through their academic output and applied work with government and business organisations. Through applied research and consultancy, staff collaborate with major organisations on new ways of dealing with complex decisions.

We engage in a range of methodological approaches to research including both qualitative and quantitative methods. Our interests are in providing holistic decision support and developing approaches to problem structuring, model development, data analysis, model inference and decision support.

We develop our methods to meet the needs of users with a variety of applications. In the UK we work with 15 universities and collaborate internationally with academics from 45 universities. Currently, we are working on funded research projects with academics from each of the other departments within Strathclyde Business School, as well as the Engineering and Science faculties.

## Research Areas

### Health Systems

The health systems research cluster is interested in the applications of management science in healthcare organisation and delivery. Our work has close links with health economics, optimisation, operations management and demography. On-going projects include economic consequences of population ageing, healthcare performance targets and variations in practice, process improvement for hospital services, pharmacy automation, process improvement for hospital services, and radiation treatment planning.

### Optimisation

The optimisation group is developing theory and solution methods for challenging optimisation problems stemming from various applications. Current projects cover network optimisation: telecommunication networks and evacuation modelling, production planning in manufacturing, optimisation for transportation and energy markets, offshore windfarm installation logistics optimisation, and optimisation in radiation treatment planning.

### Risk and Uncertainty

Our interest in risk relates to decision-making under uncertainty. We are engaged in all aspects of the decision support process from problem structuring through data analysis and model building to recommendations. We work closely with industry, applying methods primarily from statistics, probability and decision analysis, to real-world problems.

### Knowledge

Our research group covers a wide range of knowledge modelling. We explore the fundamentals of knowledge, problems, creativity, intuition, levels of expertise, risk, perception of risk, and subjective probabilities. We do most of our work in applied contexts, structuring problems and modelling expert knowledge in order to support decision-makers and decision-takers in their organisations. Our research also served as basis for developing a number of software packages used for knowledge modelling.

### Operations Management and Supply Chain Management

Our interest in operations and supply chain management covers a wide range of topics, including operations strategy, service operations management, innovation in operation, project management, performance measurement, enterprise resource planning, logistics optimisation and supply chain risk modelling.

## Business Analysis and Consulting

MSc/PgDip/PgCert (full-time, part-time, distance learning)

### Why study this programme at Strathclyde?

- Gain practical, evaluative and analytical skills
- Learn how to use business models to develop strategy for organisations
- Opportunity to undertake a three-week work placement
- Work on a project for a leading organisation

### Course Structure

#### Compulsory Classes

- Foundations of Research and Business Analysis
- Quantitative Business Analysis
- Managing Business Operations
- Spreadsheet Modelling and Demand Forecasting
- Strategy Modelling and Management
- Becoming an Effective Business Analyst

#### Optional Classes (three to be chosen)

- Business Simulation Methods
- Risk Analysis and Management
- Business Information Systems
- Performance Measurement and Management
- Business Analytics

### Work Placement

The apprenticeship scheme offers the opportunity to compete for a three-week placement in a private or public sector organisation.

### Dissertation

MSc students undertake a three-month project, typically for an external organisation.

### Duration of Programme

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

**Online Distance Learning** (minimum durations):

**PgCert:** 13 months; **PgDip:** 20 months; **MSc:** 26 months

### Entry Requirements

**MSc:** Second-class Honours degree, or overseas equivalent, in business, economics, engineering or the social sciences. Applications from those with other degrees are welcome.

**PgDip:** Minimum of a Pass degree, or equivalent, in an appropriate subject. Subject to performance students may transfer from the diploma course to the MSc.

## Operational Research

MSc/PgDip/PgCert (full-time, part-time, distance learning)

### Why study this programme at Strathclyde?

- Develop practical skills to support decision-makers
- Learn to apply appropriate techniques, methods, models and approaches
- Gain valuable experience through a work placement
- Benefit from studying on a well-established programme

### Course Structure

#### Compulsory Classes

- Foundations of Research and Business Analysis
- Quantitative Business Analysis
- Managing Business Operations
- Spreadsheet Modelling and Demand Forecasting
- Operational Research Methods
- Becoming an Effective OR Modeller

#### Optional Classes (three to be chosen)

- Business Simulation Methods
- Risk Analysis and Management
- Decision Analysis
- Advanced OR Modelling with Specialised Software Tools
- Analytics for Big Data

### Work Placement

The apprenticeship scheme offers the opportunity to compete for a three-week placement in a private or public sector organisation.

### Dissertation

MSc students undertake a three-month project, typically for an external organisation.

### Duration of Programme

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

**Online Distance Learning** (minimum durations):

**PgCert:** 13 months; **PgDip:** 20 months; **MSc:** 26 months

### Entry Requirements

**MSc:** Second-class Honours degree, or overseas equivalent, in mathematics, the natural sciences or engineering. Those with other degrees are also encouraged to apply, if they can demonstrate a good understanding of mathematics/statistics.

**PgDip:** Minimum of a Pass degree, or equivalent, in an appropriate subject. Subject to performance diploma students may transfer from the diploma course to the MSc.

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# Department of Marketing

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## RESEARCH DEGREES

MRes, MPhil, PhD, DBA

## Contact for Research Courses

Christina MacLean

t: +44 (0)141 548 4919

e: christina.maclea@strath.ac.uk

## TAUGHT COURSES

Marketing

International Marketing

Tourism Marketing Management

## Contact for Taught Courses

SBS Student Recruitment and Marketing Unit

t: +44 (0)141 553 6118/9

e: sbs.admissions@strath.ac.uk

The Department of Marketing at Strathclyde is one of the oldest and largest Marketing departments in Europe. It has an international reputation for the quality of its teaching and research. Staff act as advisers and consultants to private and public organisations and also hold senior posts in the Chartered Institute of Marketing, the Market Research Society and other professional associations, as well as national and International companies.

## Research Areas

Our academic staff are actively involved in research and have built a strong portfolio of publications in leading journals. Research expertise in the Department includes:

- Export marketing and international business
- E-business and e-marketing
- Customer relationship management
- Consumer behaviour
- Digital marketing
- Sports marketing
- International channel management
- Innovation and new product/service development
- Business-to-business networking and marketing
- International sourcing and strategic procurement management
- Marketing research
- Services marketing
- Hospitality and tourism management and marketing

## Marketing Management

Marketing Management research has attracted funding from several organisations, and the group's areas of interest include strategic marketing, franchising, strategic alliances, sustainable supply chains, corporate social responsibility

and green consumers, digital marketing, branding, marketing management within the b2b services and tourism contexts and sales management.

## Consumer and Social Marketing Research

Our research looks at furthering work on consumer culture theory through exploring consumer tribes/communities and celebrity culture, and cultural approaches towards the understanding of brand culture. Research themes include the impact of poverty on consumption and the implications of consumer disadvantage and consumer poverty for wellbeing and social exclusion, the importance of religion as an influence on consumption, culinary consumption and food cultures, tourism consumption, sustainable consumption and historical approaches to analysing consumption culture within the globalisation discourse.

## Researching Business Networking

This programme of research is developing knowledge and management practice regarding business networking and relationship management across a range of industry sectors.

## Digital Marketing

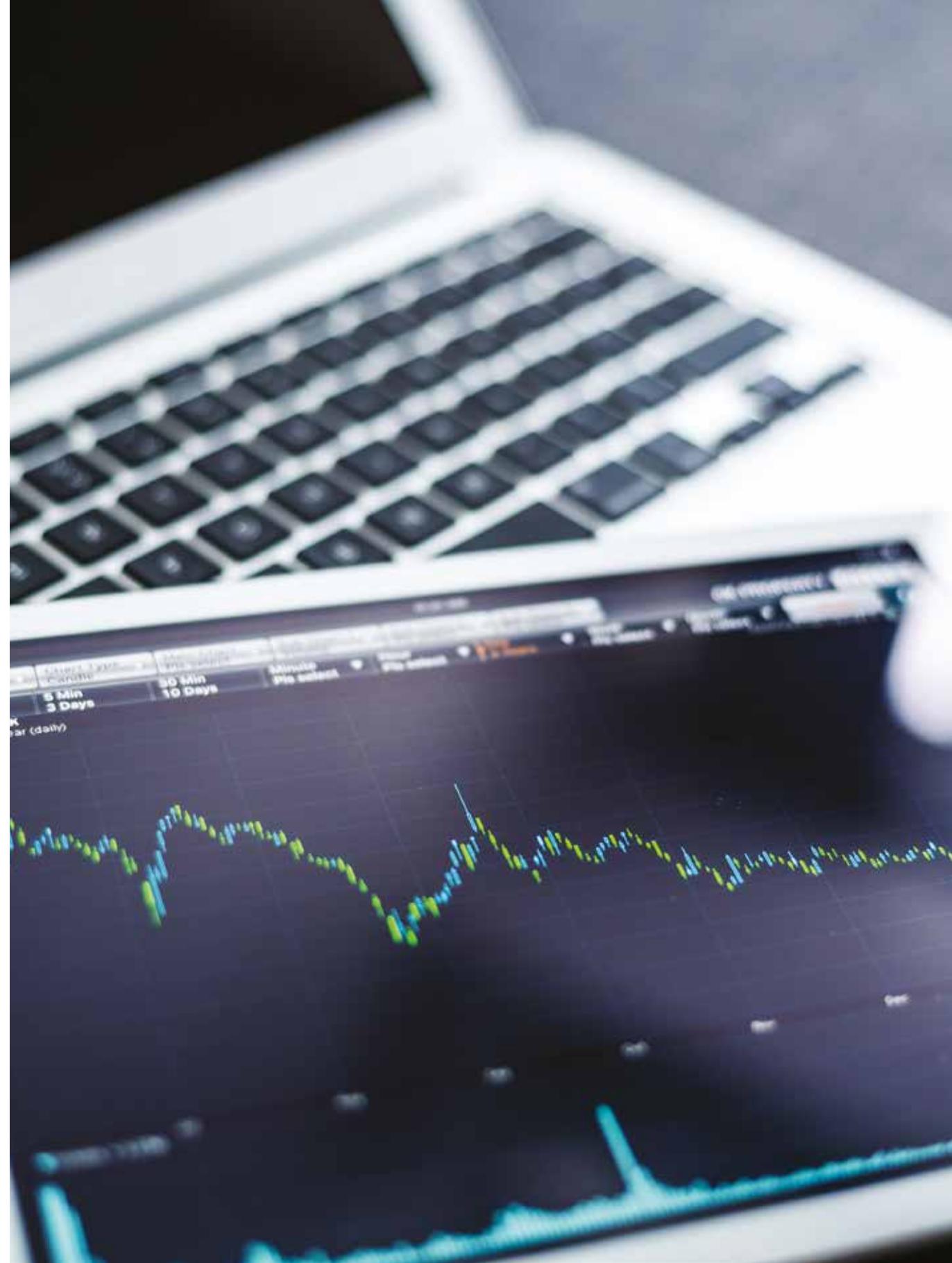
A number of staff and doctoral students are working on a series of projects relating to the use of Web 2.0, social networks and new media in the area of marketing. This touches on a number of the other specialist areas of research within the Department such as services marketing, marketing communications and consumer behaviour.

## Services Marketing

This research stream focuses on the linkages between corporate culture, performance measurement and service delivery personnel, corporate reputation, service branding, service differentiation and customer satisfaction. Also issues around the service profit chain concept, including customer (value) management, research on satisfaction and loyalty, complaining behaviour, retail marketing and relationship marketing.

## Hospitality and Tourism Management

Key areas covered include managerial relevance, human resource issues, tourism marketing and consumer behaviour and critical perspectives. Some projects have contributed to developing Scottish hospitality and tourism, for example, work to foster social inclusion through hospitality to counter marginalisation; and to tourism and transport policy-making through studies of leisure travel behaviour. The team has also been active in developing new methodologies and conceptualisations, for example, development of sociological impressionism.



## Marketing

MSc/PgDip

### Why study this programme at Strathclyde?

- Suitable for non-business graduates who want to pursue a career in this area
- Develop an understanding of consumer behaviour in relation to individuals and organisations
- Undertake an industry consultancy project

### Course Structure

#### Compulsory Classes

- Consumer Behaviour
- Strategic Marketing Management
- International Marketing Research
- Brand Management and Strategy
- Key Skills
- Dissertation Skills

#### Optional Classes (four to be chosen)

- Contemporary Consumers
- Customer Management 1
- Customer Management 2: Digital Marketing
- Destination Marketing Management
- Export Marketing
- Integrated Marketing Communications
- International Culture and Heritage Marketing
- International Services Marketing
- Managing Tourism Resources
- Retail Marketing Management
- Sector Studies (this class is taken outside the UK)
- Sports Marketing in a Global Context

#### Marketing Works: Applied Marketing Group Project

Students work in small groups as consultants to a local or national company to tackle a real-life marketing problem.

#### Dissertation: Individual Research Project

The research project allows students to pursue an area of specific interest, providing scope for original thought, research and presentation.

#### Duration of Programme

MSc: 12 months full-time

PgDip: 9 months full-time

#### Entry Requirements

First- or upper-second-class Honours degree, or overseas equivalent, in a non-business discipline.

## International Marketing

MSc/PgDip

### Why study this programme at Strathclyde?

- Specialist course reflecting current diversity in global marketing practice
- Acquire new skills or enhance your existing experience
- Benefit from industry collaboration
- Study within a student cohort from across the globe

### Course Structure

#### Compulsory Classes

- Cross-cultural Buyer Behaviour
- Strategic Global Marketing
- International Marketing Research
- Brand Management and Strategy
- Key Skills
- Dissertation Skills

#### Optional Classes (four to be chosen)

- Contemporary Consumers
- Customer Management 1
- Customer Management 2: Digital Marketing
- Destination Marketing Management
- Export Marketing
- Integrated Marketing Communications
- International Culture and Heritage Marketing
- International Services Marketing
- Managing Tourism Resources
- Retail Marketing Management
- Sector Studies (this class is taken outside the UK)
- Sports Marketing in a Global Context

#### Marketing Works: Applied Marketing Group Project

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#### Dissertation: Individual Research Project

The research project allows students to pursue an area of specific interest, providing scope for original thought, research and presentation.

#### Duration of Programme

MSc: 12 months full-time

PgDip: 9 months full-time

#### Entry Requirements

First- or upper-second-class Honours degree, or overseas equivalent, in marketing or a business-related degree including a marketing element.

## Tourism Marketing Management

MSc

### Why study this programme at Strathclyde?

- Gain insight into the dynamic and technologically innovative nature of contemporary marketing
- Benefit from skills-based teaching
- Enhance your leadership, teamwork and cross-cultural skills

### Course Structure

#### Compulsory Classes

- Consumer Behaviour
- Strategic Marketing Management
- International Marketing Research
- Brand Management and Strategy
- Destination Marketing Management
- Managing Tourism Resources
- International Services Marketing
- Key Skills
- Dissertation Skills

#### Optional Classes (four to be chosen)

- Contemporary Consumers
- Customer Management 1
- Customer Management 2: Digital Marketing
- Export Marketing
- Integrated Marketing Communications
- International Culture and Heritage Marketing
- Retail Marketing Management
- Sector Studies (this class is taken outside the UK)
- Sports Marketing in a Global Context

#### Marketing Works: Applied Marketing Group Project

Students work in small groups as consultants to a local or national company to tackle a real-life marketing problem.

#### Dissertation: Individual Research Project

The research project allows students to pursue an area of specific interest, providing scope for original thought, research and presentation.

#### Duration of Programme

MSc: 12 months full-time

PgDip: 9 months full-time

#### Entry Requirements

First- or upper-second-class Honours degree, or overseas equivalent.

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# Department of Strategy and Organisation

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## RESEARCH DEGREES

MRes, MPhil, DBA, PhD

## Contact for Research Courses

Hilde Quigley, Research Secretary  
t: +44 (0)141 553 6109  
e: hilde.quigley@strath.ac.uk

## TAUGHT COURSES

Business and Management  
International Management  
International Management and Law  
Project Management and Innovation  
Finance and Management (in collaboration with the Department of Accounting and Finance, see pg 147 for course description)

## Contact for Taught Courses

SBS Student Recruitment and Marketing Unit  
t: +44 (0)141 553 6118/9  
e: sbs.admissions@strath.ac.uk

With more than 40 years of experience in course development, the Department of Strategy and Organisation (formerly Department of Management) is regarded as a pioneer and major innovator in the field of business and management education. All of the Masters programmes on offer in the Department develop the key skills required for a successful career in management. Learning from leading academic experts, you will gain a multicultural and international perspective, and build experience of business by working with industry contacts.

Our researchers explore how organisations perform, and maintain the potential to perform, under ever-changing circumstances. We develop ways to help organisations change, innovate and remain successful. Research is clustered around several key topic areas including strategic management, leadership, organisational learning and change, innovation and creative practice, managing technology and the dynamics of power and identity construction.

Our work is based in a range of different types of organisations in the public, private and third sectors and includes micro-businesses, small and medium-sized enterprises, international and multinational enterprises and knowledge-intensive firms. We approach our research using a variety of qualitative and interpretivist methods.

The aim of the Department's research is to be relevant and useful and to generate impact for a range of end-users both within and beyond academia.

## Research Areas

### Strategic Management

We look at issues such as how the environment surrounding an organisation takes shape and how organisations build for recurrent success. Research themes include scenario thinking, high value manufacturing and project management.

### Leadership

We focus on the creative dynamics of leadership and the changing needs for leadership development in an increasingly globalised world. Key areas include leadership as organisational practice, critical perspectives on leadership, leadership development for the 21st century.

### International Business

Our researchers concentrate on how firms survive and prosper in a variety of circumstances around the world. Key areas include foreign direct investment, international business strategy, emerging and transition economies and their multinational, identity within international partnerships, small and medium enterprises in the global context, and the development of international tourism.

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## Master of Business and Management

MSc/PgDip/PgCert

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### Why study this programme at Strathclyde?

- The programme is accredited by the Association of MBAs as a Pre-Experience Masters in Management
- Experience a broad, yet specific exploration of general management
- Develop skills in management theories and practices

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### Course Structure

#### Compulsory Classes

- Professional Management Practice
- Analytical Support for Decision-making
- Managing People in Organisations
- Leadership for Change and Innovation
- Managerial Accounting
- Marketing Management
- Business Operations
- Finance and Financial Management
- Business Strategy
- Managing Technology and Innovation
- Consultancy in Practice

#### Optional Classes (two to be chosen)

- Brand Management and Strategy
- Foundations of Risk
- New Venture Creation
- Programme and Project Management
- Games of Strategy
- Strategic Financial Management
- Developing Skills for Effective Management Consulting
- Digital Leadership: Strategy and Management
- Managing in Europe (taught at Toulouse Business School, France)

#### Project

The project provides the opportunity to apply your learning to a practical situation with an organisation.

#### Duration of Programme

MSc: 12 months full-time

PgDip: 9 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent, in any discipline.

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## International Management

MSc/PgDip/PgCert

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### Why study this programme at Strathclyde?

- Develop the knowledge and skills required by international managers and leaders to operate in a global environment
- Benefit from a practical focus on managing and leading in various organisational settings

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### Course Structure

#### Compulsory Classes

- Professional Management Practice
- Managing Across Cultures
- Managing People in Organisations
- Marketing Management
- Global Business Environment
- Finance and Financial Management
- Project Methodology
- Business Strategy
- International Entrepreneurship
- Consultancy in Practice

#### Optional Classes (two to be chosen)

- Brand Management and Strategy
- Foundations of Risk
- New Venture Creation
- Programme and Project Management
- Games of Strategy
- Leadership for Change and Innovation
- Strategic Financial Management
- Change Agency
- Developing Skills for Effective Management Consulting
- Digital Leadership: Strategy and Management
- Managing in Europe (taught at Toulouse Business School, France)

#### Project

The project provides the opportunity to apply your learning to a practical situation with an organisation.

#### Duration of Programme

MSc: 12 months full-time

PgDip: 9 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent, in any discipline.



## Kalliopi Souli

### MSc International Management

Joining Strathclyde Business School has been a great opportunity for me to enhance the skills I need for the future. The classes have been exciting and useful and I've met and worked with some fascinating people.

I plan to pursue a managerial career and the combination of soft and analytical skills I have developed will ensure my position in the market place. My degree from one of the highest ranked Business Schools in the UK will be a valuable asset.

Glasgow is a vibrant city to live in as a student and I've had the chance to explore Scotland's magnificent scenery alongside my studies.

## International Management and Law

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Develop the knowledge and skills required to manage global organisations
- Gain a solid understanding of various forms of legal regulation
- Understand the role of cross-cultural management

### Course Structure

#### Compulsory Classes

- Law of International Business
- Managing Across Culture
- Global Business Environment
- Comparative Law of Obligations

#### Optional Classes

- Digital Leadership: Strategy and Management
- Programme and Project Management
- Strategic Financial Management
- Managing in Europe (Toulouse Business School, France)
- Developing Effective Consulting Skills
- Foundations of Risk
- Games of Strategy
- New Venture Creation
- Leadership for Change and Innovation
- Contemporary Employment Relations
- Labour Law in the Global Economy
- Comparative Company Law
- World Trade Law
- International/UK and EU Environmental Law
- International Banking Law
- Financial Regulation and Compliance
- E-Commerce
- Arbitration Law
- Intellectual Property Law

#### Project

The project provides the opportunity to apply your learning to a practical situation with an organisation.

#### Duration of Programme

MSc: 12 months full-time  
PgDip: 9 months full-time

#### Entry Requirements

First- or upper second-class Honours degree, or equivalent, in any discipline.

## Project Management and Innovation

MSc/PgDip/PgCert

### Why study this programme at Strathclyde?

- Develop the skills to manage complex technology and innovation projects
- Be prepared for a career in industries ranging from manufacturing and services to the public sector
- Opportunity to work on a live issue for a business client

### Course Structure

#### Compulsory Classes

- Professional Management Practice
- Commercial Management in Projects
- Technology and Organisational Change
- Leadership for Change and Innovation
- Managerial Accounting
- Project and Programme Management
- Business Operations
- Project Portfolio Management
- Project Methodology
- Business Strategy
- Managing Technology and Innovation
- Consultancy in Practice

#### Optional Classes (two to be chosen)

- Brand Management and Strategy
- Foundations of Risk
- New Venture Creation
- Games of Strategy
- Strategic Financial Management
- Management of International Relationships
- Change Agency
- Developing Skills for Effective Management Consulting
- Digital leadership: Strategy and Management
- Managing in Europe (taught at Toulouse Business School, France)

#### Project

The project provides the opportunity to apply your learning to a practical situation with an organisation.

#### Duration of Programme

MSc: 12 months full-time  
PgDip: 9 months full-time

#### Entry Requirements

First- or second-class Honours degree, or equivalent, in any discipline.

# INFORMATION FOR APPLICANTS

If you are interested in studying at Strathclyde as a postgraduate student, staff from the Recruitment & International Office (RIO) can give you all the help and advice you need to make your decision – from information about applying and courses, to information specifically relevant to you, whatever your circumstances, wherever you live.

If you live outside the UK, the University has agents and representatives in many countries around the world. You can find a list on the our website at [www.strath.ac.uk/studywithus/internationalstudents](http://www.strath.ac.uk/studywithus/internationalstudents).



## Applications

There is no formal closing date for most postgraduate applications but we advise you to apply as soon as possible, preferably by the end of March for entry in September. Applications are considered and decisions given on a rolling basis by most Departments; exceptions will be specified in the relevant course entry in this prospectus. If you wish to be nominated by the University for any scholarship or funding, we recommend that you apply as early as possible.

## Entry Requirements

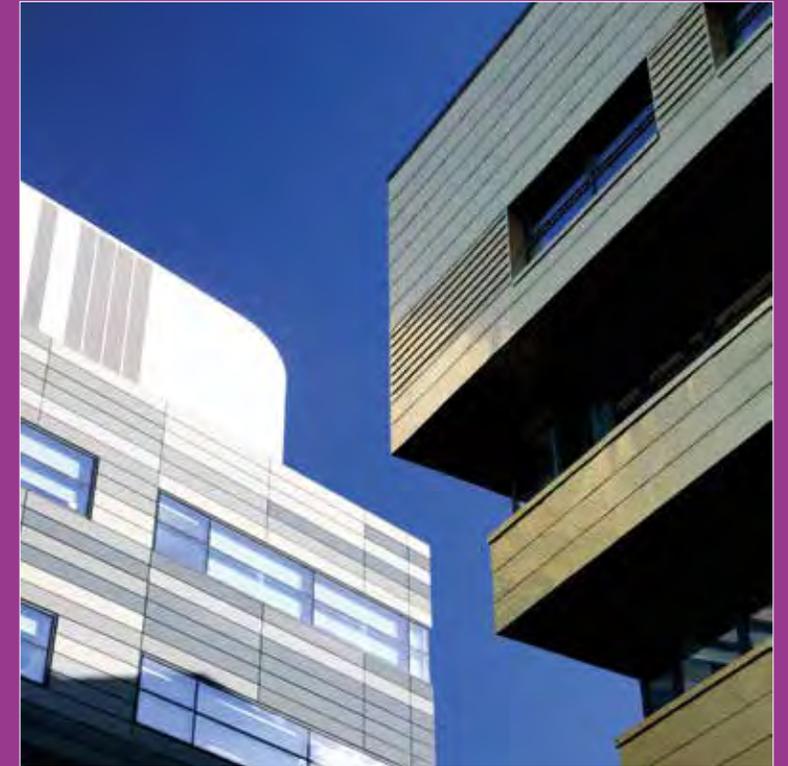
The University admits students with a range of both academic and professional qualifications. In addition to an appropriate academic qualification (generally a strong undergraduate degree, or equivalent qualification), some courses require relevant professional or work experience.

If you are unsure whether your qualification is acceptable to the University, please email us: [international@strath.ac.uk](mailto:international@strath.ac.uk) or [pgenquiries@strath.ac.uk](mailto:pgenquiries@strath.ac.uk).

## English Language Requirements

If English is not your first language, you must provide evidence of your proficiency before beginning your course. Strathclyde will consider a number of English language qualifications, but IELTS is generally the most popular.

- IELTS: The overall score required is normally 6.5 with no individual component below 5.5



Note: Some courses may have different English language requirements. Please refer to individual course information for details.

English Language Teaching offers courses throughout the year; the pre-entry and pre-session courses run from April to September.

One month of pre-session English language tuition is available free of charge to international students paying full overseas fees, as well as additional free tuition during term-time, for up to four hours each week

e: [elt@strath.ac.uk](mailto:elt@strath.ac.uk)

## UK Immigration for International Students

Each year, the University welcomes students from more than 100 countries. If you are an international applicant, the following information will help you with your decision-making and the application process.

Students from countries outside the European Economic Area and Switzerland will normally require a Tier 4 Adult (General) Visa in order to study in the UK. To apply for this visa students will require a Confirmation of Acceptance for Study (CAS) and also appropriate evidence of their funding.

A CAS will be issued by the University of Strathclyde when you accept our Offer of Study,

meet any conditions mentioned in the Offer of Study, and pay a deposit. This deposit is an advance payment which will be offset against the amount of your tuition fees. If you have an official financial sponsor you will not have to pay this deposit. You should send a copy of your sponsorship letter to the University's Finance Office and your CAS number will be issued.

When you apply for your visa you must also provide evidence that you have the required level of funds relating to fees and maintenance (living costs) for the first nine months of your study.

UK Visas and Immigration have very specific requirements relating to the level and nature of funding for studies and the supporting evidence needed when applying for a visa. Further details and up-to-date information on visa requirements can be found at:

[www.strath.ac.uk/visas](http://www.strath.ac.uk/visas)  
[www.ukcisa.org.uk](http://www.ukcisa.org.uk)

Students applying for a Tier 4 visa should check thoroughly that they meet the requirements before applying for the visa.

### **Taught Courses**

The duration of most taught courses is one year, normally starting in September at the beginning of the academic year. Taught courses involve a combination of formal lecture and/or seminar programmes, with an emphasis on group work and individual study. Many courses conclude with a project on a relevant topic. These courses are intended to provide advanced knowledge or techniques in specialised aspects of subjects you studied more generally at undergraduate level. Some taught courses also serve as conversion courses for those who wish to change disciplines, upgrade their knowledge within a discipline or prepare for further study.

You will be assessed at various points throughout the academic year through examinations, assessed coursework, group work and seminars.

### **Research Degrees**

Registration for research degrees normally takes place in September, but it is possible to start at other times. A research degree provides training in an area of study through original research and experiment, culminating in the preparation of a thesis setting out the conclusions of your research. You will be working on your own under the guidance of an academic supervisor and your progress will be monitored through regular meetings and submission of your research findings.

### **Study Modes**

Many of our programmes can be undertaken full-time, part-time, or on a modular basis. Distance or open-learning options are also available on some courses. Please note that non-EEA (European Economic Area) international students are not eligible for part-time study programmes based in the UK due to visa restrictions.

### **Careers and Work Experience**

Whatever your reasons for embarking on postgraduate study, your career development is an integral part of your postgraduate education. At Strathclyde you will benefit from one of the UK's best university careers services. Our Careers Service has been awarded the Government's Charter Mark for the quality of its service five times and its resources and advisers can help you to make the most of your qualification.

### **Scholarships and Financial Help**

The University offers a range of scholarships for UK, EU and overseas students. Funding opportunities are also available through individual departments or tied to specific courses. Check with the department responsible for your course. If you are a research student, you may be able to supplement your income by undertaking paid work within your department.

### **Applying for Scholarships**

In order to apply for a scholarship, you must first have applied for a course of study. Information on how to apply for each scholarship is listed on the scholarship database or you can email us with any questions: [scholarship.enquiries@strath.ac.uk](mailto:scholarship.enquiries@strath.ac.uk)

### **Other sources of funding – EU and European Economic Area (EEA) students**

EU nationals are eligible to apply for the same awards as Scottish students to cover tuition fees. You may be eligible to receive maintenance support if you have been living in the UK for three years (excluding for study purposes) immediately prior to the study period. You should consult the department you intend to study in to find out if funding is available for your course or research area. For general information, visit [www.prospects.ac.uk](http://www.prospects.ac.uk) [www.saas.gov.uk](http://www.saas.gov.uk) [www.gov.uk/funding-for-postgraduate-study](http://www.gov.uk/funding-for-postgraduate-study)

### **Other sources of funding – international (non-EU/EEA) students**

You should explore funding opportunities in your home country at the same time as applying for funding in the UK, eg Ministry or Department of Education, British Council Office, British Embassy or High Commission. International agencies such as UNESCO, the World Bank and the World Health Organisation operate funding schemes and some voluntary organisations and charities award modest scholarships. Details on scholarships and funding sources are available at:

[ukcisa.org.uk](http://ukcisa.org.uk)  
[iefa.org](http://iefa.org)  
[studentmoney.org](http://studentmoney.org)  
[acu.ac.uk](http://acu.ac.uk)  
[internationalscholarships.com](http://internationalscholarships.com)  
[postgraduatestudentships.co.uk](http://postgraduatestudentships.co.uk)  
[britishcouncil.org](http://britishcouncil.org)  
[prospects.ac.uk](http://prospects.ac.uk)



### **Funding Enquiries – UK students**

The University's Student Financial Support Team offers information and advice to UK applicants and students. Assistance is available through the Discretionary and Childcare funds for students experiencing financial hardship.

### **Accommodation**

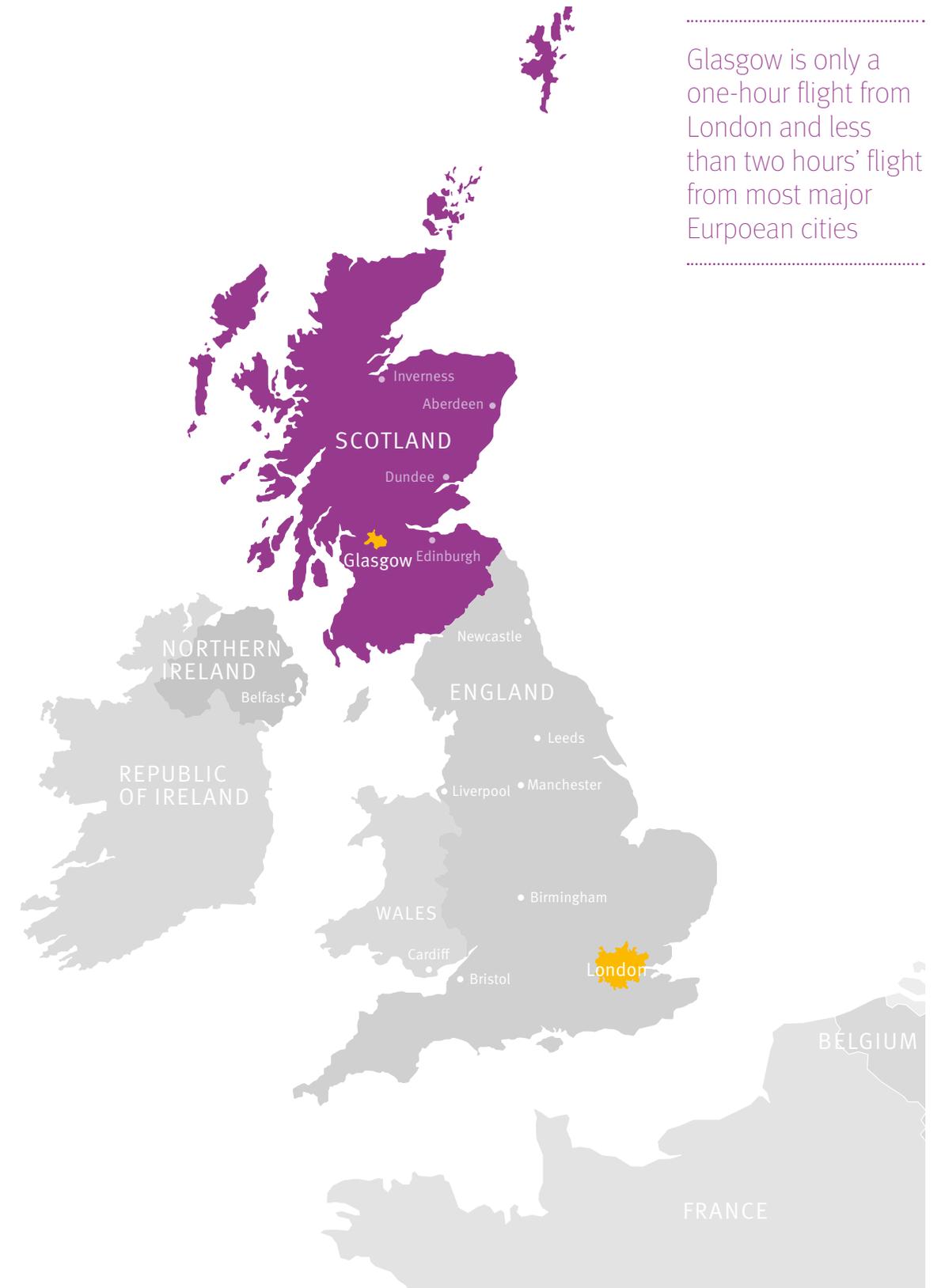
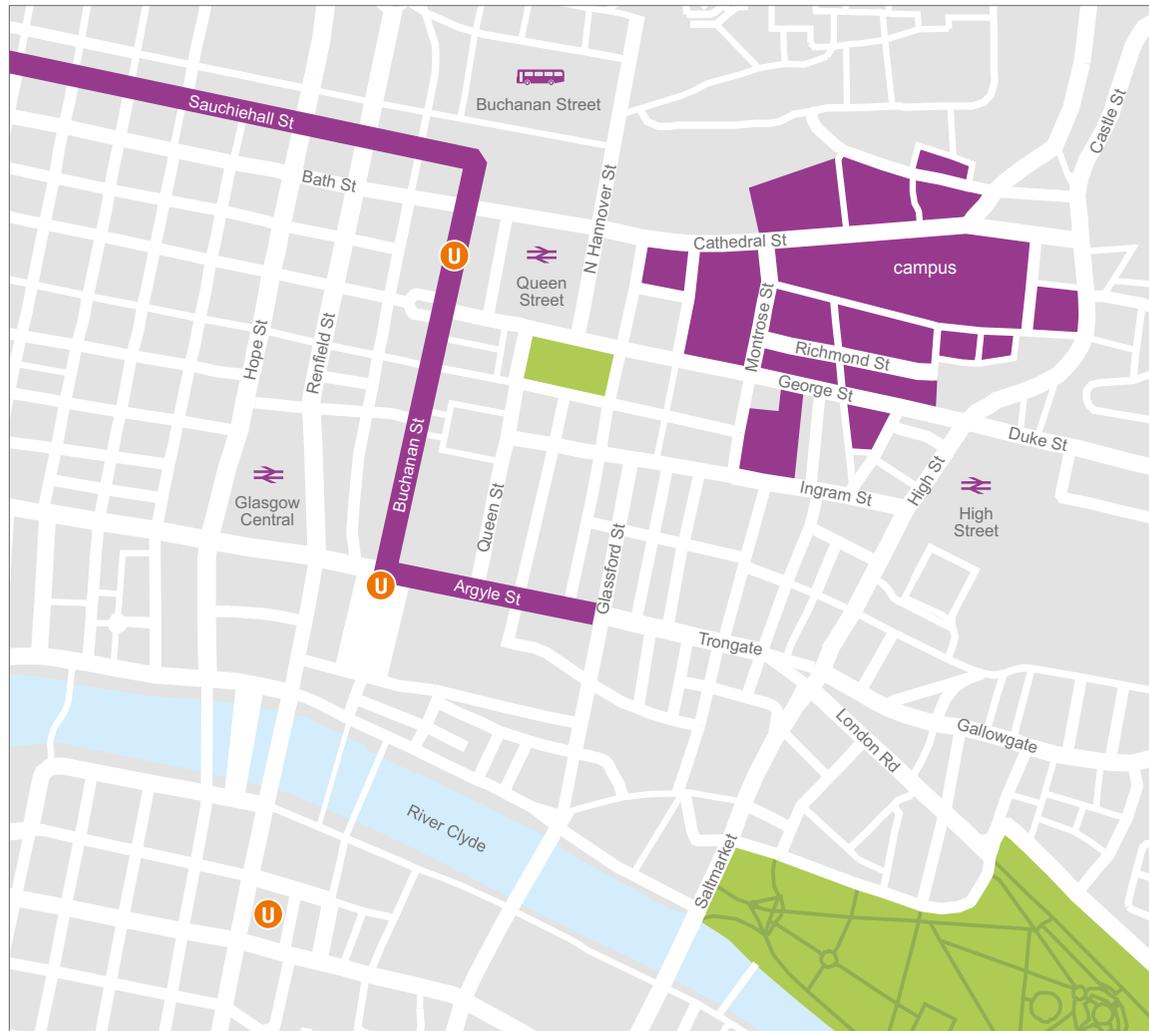
Applications for University accommodation are accepted from January. Places will be confirmed after firm offers of academic admission have been accepted by the applicant.

# VISITING US

Our recruitment team attend events with a postgraduate focus within the UK and overseas.  
There is also a postgraduate information stand at the University's open day:

**Saturday 8 October 2016**

Please contact us if you would like to visit the University at another time (+44 0141 548 2913).



Glasgow is only a one-hour flight from London and less than two hours' flight from most major European cities

# OUR CAMPUS

- 1 Technology and Innovation Centre
- 2 Sports Centre
- 3 Students' Union
- 4 James Weir Building
- 5 Strathclyde Business School
- 6 HaSS Quarter
- 7 Library
- 8 Strathclyde Institute of Pharmacy and Biomedical Sciences
- 9 Campus Village
- 10 Merchant City
- 11 City Centre



# COURSES 2017

Colour Key: ■ Engineering ■ Humanities & Social Sciences ■ Science ■ Strathclyde Business School

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# TERMS AND CONDITIONS

## Terms & Conditions

All students will be required as a condition to abide by and to submit to the procedures and rules of the University's Statutes, Ordinances, and Regulations as found in the University Calendar, as amended from time to time.

The University will use all reasonable endeavours to deliver courses in accordance with the descriptions set out in this Prospectus. Matters such as industrial action and the death or departure of staff may adversely affect the ability of the University to deliver courses in accordance with the descriptions. Also, the University has to manage its funds in a way which is efficient and cost-effective, in the context of the provision of a diverse range of courses to a large number of students.

The University therefore:

a) reserves the right to make variations to the contents or methods of delivery of courses, to discontinue courses and to merge or combine courses, if such action is reasonably considered by the University in the context of its wider purposes. If the University discontinues any course, it will use its reasonable endeavours to provide a suitable alternative course.

b) cannot accept responsibility, and expressly excludes liability, for damage to students' property, transfer of computer viruses to students' equipment, and changes to teaching arrangements and similar activities.

This Prospectus, published in August 2016, is for use by those interested in entering the University in the academic year

beginning in September 2017. The contents of the Prospectus are as far as possible up-to-date and accurate at the date of publication. Changes are made from time to time and the University reserves the right to add, amend or withdraw courses and facilities, to restrict student numbers and to make any other alterations as it may deem necessary and desirable. The descriptions of courses in this Prospectus are intended as a useful guide to applicants and do not constitute the official regulations which are available in the current edition of the University Calendar.

A guide to the admission requirements for the University's degree courses is given in each course entry, but please consult the University website for the most up-to-date information.



the place of useful learning

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