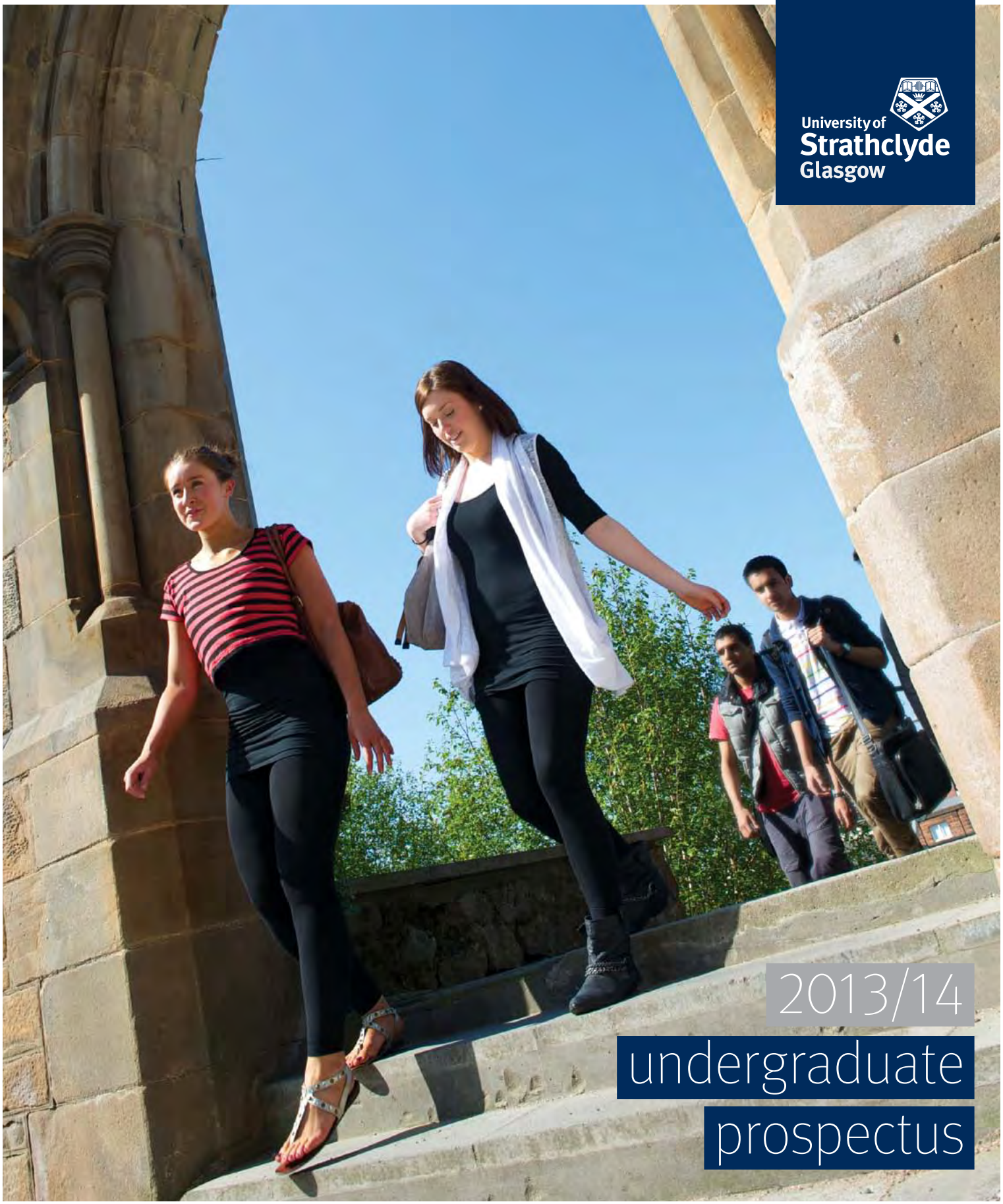


University of Strathclyde Glasgow

2013/14

undergraduate prospectus

Our courses
2013-2014

The following undergraduate courses are offered at Strathclyde. Please refer to the tables at the end of each Faculty section for full details of entry requirements and to the Admissions information on pg 148. If you would like to find out more about a particular course, please contact the person named in the course entry.

Engineering Humanities & Social Sciences Science Strathclyde Business School

COURSE	DEGREE	HIGHERS	A LEVELS	PAGE
ACCOUNTING‡	BA (Hons)	AAAA/AAABB	AAA	124
AERO-MECHANICAL ENGINEERING	MEng	AAAAB	AAA	48
AERO-MECHANICAL ENGINEERING	BEng (Hons)	AAAB	AAB	48
APPLIED CHEMISTRY & CHEMICAL ENGINEERING	MSci	AABB/AAAC	ABB	98
ARCHITECTURAL STUDIES	BSc (Hons)	AAAB	ABB	32
ARTS and SOCIAL SCIENCES[1]	BA (Hons)	AAAB	ABB	64
BIOCHEMISTRY	MSci	AABB/AAAC	ABB	93
BIOCHEMISTRY & IMMUNOLOGY	BSc (Hons)	ABBB/AABC	BBB	93
BIOCHEMISTRY & MICROBIOLOGY	BSc (Hons)	ABBB/AABC	BBB	93
BIOCHEMISTRY & PHARMACOLOGY	BSc (Hons)	ABBB/AABC	BBB	93
BIOMEDICAL SCIENCE	BSc (Hons)	ABBB/AABC	BBB	94
BUSINESS (without Accounting)[2]	BA (Hons)	AAAB/AAABBB	AAB	121
BUSINESS ENTERPRISE‡	BA (Hons)	AAAB/AAABBB	AAB	126
BUSINESS INFORMATION SYSTEMS	BSc (Hons)	BBBB/ABBC	BBC	103
BUSINESS LAW‡	BA (Hons)	AAAB/AAABBB	AAB	128
BUSINESS TECHNOLOGY‡	BA (Hons)	AAAB/AAABBB	AAB	129
CHEMICAL ENGINEERING	MEng BEng (Hons)	AAAAB	AAA	34
CHEMISTRY	MChem	BBBB/ABBC	BBC	98
CHEMISTRY with DRUG DISCOVERY	MChem	AABB/AAAC	ABB	98
CHEMISTRY with TEACHING	MChem	AABB/AAAC	ABB	100
CHILDHOOD PRACTICE	BA	See Entry		74
CIVIL ENGINEERING	MEng	AAAA	AAA	36
CIVIL ENGINEERING	BEng (Hons)	AAAB	AAB	36
CIVIL & ENVIRONMENTAL ENGINEERING	MEng	AAAA	AAA	37
CIVIL & ENVIRONMENTAL ENGINEERING	BEng (Hons)	AAAB	AAB	37
COMPUTER & ELECTRONIC SYSTEMS	MEng	AAAAB	AAA	44
COMPUTER & ELECTRONIC SYSTEMS	BEng (Hons)	AAAB	AAB	44
COMPUTER SCIENCE	MEng	AABB/BBBBB	AAB	102
COMPUTER SCIENCE	BSc (Hons)	BBBB/ABBC	BBC	102
COMPUTER SCIENCE with LAW	BSc (Hons)	AABB/BBBBB	ABB	103
ECONOMICS‡	BA (Hons)	AAAB/AAABBB	AAB	130
EDUCATION & SOCIAL SERVICES	BA	See Entry		74
ELECTRICAL & MECHANICAL ENGINEERING	MEng	AAAA B	AAA	44
ELECTRICAL & MECHANICAL ENGINEERING	BEng (Hons)	AAAB	AAB	44
ELECTRICAL & MECHANICAL ENGINEERING with INTERNATIONAL STUDY	MEng	AAAAB	AAA	44
ELECTRICAL ENERGY SYSTEMS	MEng	AAAAB	AAA	43

COURSE	DEGREE	HIGHERS	A LEVELS	PAGE
ELECTRONIC & DIGITAL SYSTEMS	MEng	AAAAB	AAA	43
ELECTRONIC & ELECTRICAL ENGINEERING	MEng	AAAAB	AAA	43
ELECTRONIC & ELECTRICAL ENGINEERING	BEng (Hons)	AAAB	AAB	43
ELECTRONIC & ELECTRICAL ENGINEERING with BUSINESS STUDIES	MEng	AAAAB	AAA	43
ELECTRONIC & ELECTRICAL ENGINEERING with INTERNATIONAL STUDY	MEng	AAAAB	AAA	43
ENGLISH‡	BA (Hons)	AAAB	ABB	65
FINANCE‡	BA (Hons)	AAAB/AAABBB	AAB	132
FORENSIC & ANALYTICAL CHEMISTRY	MChem	AABB/AAAC	ABB	100
FORENSIC BIOLOGY	BSc (Hons)	AABB/AAAC	BBB	94
FRENCH‡	BA (Hons)	AAAB	ABB	66
HISTORY‡	BA (Hons)	AAAB	ABB	67
HOSPITALITY & TOURISM MANAGEMENT‡	BA (Hons)	AAAB/AAABBB	AAB	134
HUMAN RESOURCE MANAGEMENT‡	BA (Hons)	AAAB/AAABBB	AAB	136
IMMUNOLOGY	MSci	AABB/AAAC	ABB	93
IMMUNOLOGY & MICROBIOLOGY	BSc (Hons)	ABBB/AABC	BBB	93
IMMUNOLOGY & PHARMACOLOGY	BSc (Hons)	ABBB/AABC	BBB	93
INTERNATIONAL BUSINESS	BA (Hons)	AAAA/AAABB	AAA	144
INTERNATIONAL BUSINESS & MODERN LANGUAGES	Masters	AAAA/AAABB	AAA	146
ITALIAN‡	BA (Hons)	AAAB	ABB	68
JOURNALISM & CREATIVE WRITING‡	BA (Hons)	AAAB	ABB	68
LAW‡	BA (Hons)	AAAB	ABB	69
LAW	LLB (Hons)	AAAAB	AAB	76
LAW with a MODERN LANGUAGE	LLB (Hons)	AAAAB	AAB	78
MANAGEMENT‡	BA (Hons)	AAAB/AAABBB	AAB	138
MANAGEMENT SCIENCE‡	BA (Hons)	AAAB/AAABBB	AAB	140
MARKETING‡	BA (Hons)	AAAB/AAABBB	AAB	142
MATHEMATICS	MMath	AAAB/AABBC	ABB	104
MATHEMATICS	BSc (Hons)	ABBB/ABBCC	BBB	104
MATHEMATICS & COMPUTER SCIENCE	BSc (Hons)	ABBB/ABBCC	BBB	106
MATHEMATICS & PHYSICS	BSc (Hons)	ABBB/ABBCC	BBB	106
MATHEMATICS & STATISTICS	BSc (Hons)	ABBB/ABBCC	BBB	104
MATHEMATICS, STATISTICS & ACCOUNTING	BSc (Hons)	AAAA/AAABB	AAB	106
MATHEMATICS, STATISTICS & ECONOMICS	BSc (Hons)	ABBB/ABBCC	BBB	106

Open Day 2012

- 03.09.12 (6 – 8pm)
- 04.09.12 (9.30am – 2.30pm)

www.strath.ac.uk/rio/visitingopportunities

COURSE	DEGREE	HIGHERS	A LEVELS	PAGE
MATHEMATICS, STATISTICS & FINANCE	BSc (Hons)	ABBB/ABBCC	BBB	106
MATHEMATICS, STATISTICS & MANAGEMENT SCIENCE	BSc (Hons)	ABBB/ABBCC	BBB	106
MATHEMATICS with TEACHING	BSc (Hons)	ABBB/ABBCC	BBB	105
MECHANICAL ENGINEERING	MEng	AAAAB	AAA	46
MECHANICAL ENGINEERING	BEng (Hons)	AAAB	AAB	46
MECHANICAL ENGINEERING with AERONAUTICS	MEng	AAAAB	AAA	46
MECHANICAL ENGINEERING with FINANCIAL MANAGEMENT	MEng	AAAAB	AAA	46
MECHANICAL ENGINEERING with INTERNATIONAL STUDY	MEng	AAAAB	AAA	48
MECHANICAL ENGINEERING with INTERNATIONAL STUDY	BEng (Hons)	AAAB	AAB	48
MICROBIOLOGY	MSci	AABB/AAAC	ABB	93
NAVAL ARCHITECTURE	MEng	AAAA	AAB	50
NAVAL ARCHITECTURE & MARINE ENGINEERING	MEng	AAAA	AAB	50
NAVAL ARCHITECTURE & MARINE ENGINEERING	BEng (Hons)	AAAB	ABB	50
NAVAL ARCHITECTURE with OCEAN ENGINEERING	MEng	AAAA	AAB	50
NAVAL ARCHITECTURE with OCEAN ENGINEERING	BEng (Hons)	AAAB	ABB	50
NAVAL ARCHITECTURE with SMALL CRAFT ENGINEERING	MEng	AAAA	AAB	50
NAVAL ARCHITECTURE with SMALL CRAFT ENGINEERING	BEng (Hons)	AAAB	ABB	50
PHARMACOLOGY	MSci	AABB/AAAC	ABB	93
PHARMACY	MPharm	AABB	AAB	107
PHYSICS	MPhys	AAAB/AABBB	ABB	110
PHYSICS	BSc (Hons)	BBBB/ABBB	BBB	110
PHYSICS with TEACHING	BSc (Hons)	BBBB/ABBB	BBB	110
POLITICS‡	BA (Hons)	AAAB	ABB	69
PRIMARY EDUCATION	BA (Hons)	AAAB	ABB	73
PRODUCT DESIGN & INNOVATION	BSc (Hons)	AAAB	ABB	40
PRODUCT DESIGN ENGINEERING	MEng	AAAA	AAB	40
PRODUCT DESIGN ENGINEERING	BEng (Hons)	AAAB	ABB	40
PRODUCTION ENGINEERING & MANAGEMENT	MEng	AAAA	AAB	38
PRODUCTION ENGINEERING & MANAGEMENT	BEng (Hons)	AAAB	ABB	38
PROSTHETICS & ORTHOTICS	BSc (Hons)	AAAB	ABB	52
PSYCHOLOGY‡	BA (Hons)	AAAB	ABB	71
SOCIAL WORK	BA (Hons)	BBBB/BBBCC	BBB	80
SOFTWARE ENGINEERING	BSc (Hons)	BBBB/ABBC	BBC	103
SPANISH‡	BA (Hons)	AAAB	ABB	71
SPEECH & LANGUAGE PATHOLOGY	BSc (Hons)	AABB/ABBBB	ABB	81
SPORT & PHYSICAL ACTIVITY	BSc (Hons)	BBBB/ABBC	BBC	83
SPORTS ENGINEERING	MEng	AAAA	AAB	40
SPORTS ENGINEERING	BEng (Hons)	AAAB	ABB	40
TEACHING, CHEMISTRY with	MChem	AABB/AAAC	ABB	100
TEACHING, MATHEMATICS with	BSc (Hons)	ABBB/ABBCC	BBB	105
TEACHING, PHYSICS with	BSc (Hons)	BBBB/ABBC	BBB	110

Notes

1. Principal Subjects are listed alphabetically in this table. Please note also that subjects from other Faculties, particularly Business, can be studied as part of the BA Honours in Arts & Social Sciences.

2. Principal Subjects available in the Business School are listed alphabetically in this table. Please note that other subjects, particularly from the Faculty of Humanities & Social Sciences, can also be studied as part of the BA Honours in the Business School.

3. Grades are for first-year entry. Please see entry requirements tables at the end of each Faculty section for second-year entry grades and other qualifications.

‡ Principal Subject in the Strathclyde Business School

‡ Principal Subject in the BA in Arts & Social Sciences in the Faculty of Humanities & Social Sciences

Your guides

Welcome to the Undergraduate Prospectus for entry in 2013. Four students who experienced it all last year will guide you through life at the University – studying, living in Glasgow and student social life.

Fiona Bingham

BA (Honours) French and Spanish

My course is designed to develop skills that companies are looking for in graduates. Next year, I'll go on a compulsory year abroad to France or Spain - I think this experience will equip me for life after university as well as making me an interesting candidate for employers. I've been really impressed by the quality of teaching and the approachability of my lecturers. When I first came to university, I wasn't sure what to expect but I've really enjoyed my time at Strathclyde and it has definitely exceeded my expectations.

Fiona introduces Study and Learning, pg 5

Euan MacAdie

BSc (Honours) Mathematics

My advice to any new students would be to get to Freshers week and experience the Union. There's so much going on and so many new people to meet. I volunteered as a student ambassador this year and went to the legendary International Ceilidh. I met lots of different people from around the world and we all had a fantastic time! Your social life at university is a bit like study because you get out what you put in.

Euan introduces Strathclyde Life, pg 17

Want to know more about life at Strathclyde?

Visit students talking

Conor Sheehan

BSc (Honours) Prosthetics & Orthotics

Coming from Northern Ireland, I've found Scotland to be incredibly welcoming and friendly. I love Glasgow and the fact that the Strathclyde campus is right in the middle of it is a real bonus. The area surrounding the University is great and has everything from shopping to cultural attractions and nightlife. I recently visited the city's new Riverside Museum on the Clyde and reckon it's a building that sums up Glasgow: exciting, modern and fun. I'm enjoying my time here and have made friends for life.

Conor introduces Welcome to Glasgow, pg 11

Yansheng Zhang

BEng (Honours) Electronic & Electrical Engineering

The University has helped me a lot. When I first arrived here from Shanghai I attended the international student welcome where I was given lots of information about how to adapt to university life, handle my finances and find my way about campus. There are regular meetings at the start of semesters and the help and support I have received has been invaluable.

Yansheng introduces Here For You, pg 25

Study & Learning

I've really enjoyed my time at Strathclyde. It has definitely exceeded my expectations.

Fiona Bingham, French and Spanish

USEFUL LEARNING **Page 6-7:** Semesters, Credits, Assessment

STUDYING AT UNIVERSITY **Page 8-9:** CAPLE (Centre for Academic Practice & Learning Enhancement), Information Services, Your Library, Study Abroad Opportunities

Useful learning

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 University learning experience.

We offer a wide range of learning methods including lectures, tutorials, laboratories, problem-solving classes, integrative discussions, projects and placements.

As a Strathclyde student, you will experience:

- various styles of teaching space including interactive classrooms with data connections at each seat, allowing lecturers to be sure everyone is keeping up
- 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, and 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. The University pays close attention to first-year students, offering learning support and practical advice to help them improve study skills and manage their workload. In most courses, degree exams provide the main evidence for decisions regarding progress. The main exam diet is held each year in May/June and in August (for resits). Some courses also have an additional diet in January 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.

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. Some courses require you to undertake a research project – working individually and/or in groups, you will carry out library research, laboratory exercises or fieldwork, and present a report on the project.

Studying at University

You will find that there is less supervision at university than at school and you will have more responsibility for getting things done on your own, supported by our help and expertise.

The newly refurbished University Library contains around 750,000 volumes and over 8,000 current journal subscriptions, the vast majority of which are available electronically.

We help you adapt by giving you support and friendly advice on how to prioritise, manage your work and overcome any challenges. You will have your own Study Adviser – or another sympathetic member of staff – who will be there to talk you through any questions and help find solutions to any problems with your courses, studying, exams or personal pressures.

We offer a special learning support service called **CAPLE**, the **Centre for Academic Practice & Learning Enhancement**. The experienced team at CAPLE can work with you to develop your study skills and strategies. They can also help with time management, note-taking and presentation skills that will be invaluable while you are at university and in your future career.
www.strath.ac.uk/caple

If you are an international student in a full-time degree programme and would like to work on your English language skills, you can benefit from free class tuition of up to four hours a week for as long as you are at Strathclyde.
www.strath.ac.uk/elt

Information Services
www.strath.ac.uk/IS
Information Services is at the heart of all University activities. We are responsible for IT and Library services on campus and provide support to all University staff and students. We continue to work towards the development of a 'Digital Campus' that underpins the University strategic aims in research, education and knowledge exchange.

Your Library

www.lib.strath.ac.uk

The **University Library** has a wide variety of reader places suitable for individual or group study work. There are extensive Wi-Fi zones for laptop use and areas with fixed computers. The Library has around one million print volumes as well as access to over 144,000 electronic books and over 25,000 e-journals that can be used 24/7 from any suitably enabled computer.

The aim of the Library is to provide access to materials and information resources which will help you with your studies in a supportive learning environment. Expert and friendly staff are available to help you find information and can show you how to use the wide variety of resources on offer.

The University is currently investing in the Library to develop and shape facilities to meet your needs. This includes redevelopment of the building to offer modern, high tech facilities, provision of more group and individual spaces as well as an increased focus on acquiring digital content.

IT Services

www.strath.ac.uk/it

IT Services offers first class support services to students including:

- over 1350 campus PCs and more than 30 computer labs, many open 24/7
- dedicated IT Helpdesk and 24/7 out-of-hours IT support
- personal student email account with free email, web access and 50 megabytes of disk space
- selection of software for students to download free of charge
- access to an Online Resource Centre providing online tutorials and support 24/7
- mPEGASUS student web portal and iPhone app giving students access to their information on the go
- access to MyPlace, a virtual e-learning environment, where students can learn online and access course materials
- expert IT Training team offering free training in a number of key software packages

Study Abroad

www.strath.ac.uk/rio

There are many opportunities to study abroad for either a full academic year or just one semester. Often, there is a choice between taking classes or doing a practical placement – either option will open the door to new experiences and new skills and will help make you even more employable. There are exchange opportunities available in the USA, Canada, Australia, New Zealand, Singapore, Hong Kong, Japan and Europe and most are available to students in any subject discipline. You will receive full academic credit for your year abroad, so there is no need to extend your studies. Various funding packages are available.

I was lucky enough to spend my third year in Angers, France and I am spending my fourth year in Rutigliano in Italy as a teaching assisstant with the British Council. The chance to take two years abroad to really immerse myself in the languages and cultures I'm studying has been a fantastic opportunity. You don't get that experience from a book!

Kirstin Cleland, *BA (Honours) French & Italian*

Welcome to Glasgow, Scotland

I love Glasgow and the fact that the Strathclyde campus is right in the middle is a real bonus.

Conor Sheehan, Prosthetics and Orthotics

Glasgow

From the days of wealthy tobacco merchants strutting through the Merchant City to the boutique shops and trendy bars of today, Glasgow has always been very much in touch with its sense of style.

Glasgow plays host to a range of major International music events including the MOBO awards and Celtic Connections. It has been dubbed 'Europe's Secret Capital of Music' by *Time Magazine* and is a UNESCO City of Music.

Strathclyde's campus sits at the centre of one of the UK's largest and most dynamic cities. Glasgow's music scene and its pubs, clubs and restaurants could keep you busy every night of the week. The city also offers the best retail experience in the UK outside of London. Many of the top designer labels have flocked to Glasgow in recent years, and they are all just a few minutes from the campus. The *New York Times* recently named the city as one of the top 12 places to see in the world in 2012. So why not come and see what all the fuss is about?

Live Music
Glasgow is home to many bands that are now international names and there's loads of new talent coming out of the city's live music venues. So whether you are into rock or indie, punk or even country music, there's a place where you can give your eardrums a treat.

Close to the campus is the legendary Barrowland Ballroom: a music venue that was recently voted the best in the UK, and second best in the world in a poll of the UK's biggest bands.

Cinema City
Glasgow has been dubbed 'the cinema city' and movies lie close to the heart of every Glaswegian. The city boasts the tallest cinema in the world, and the busiest in the UK, and over 20 films have been produced in the city in the last few years. In 2011 Strathclyde students were delighted to catch a glimpse of Brad Pitt on their lunch-break during the filming of the zombie blockbuster: World War Z.

High Culture
As well as its thriving street culture, Glasgow has more than its fair share of high culture, with a year-round programme of arts and music. There are over 20 museums and galleries, and the city is home to Scottish Opera, the BBC Scottish Symphony Orchestra and Scottish Ballet.

The Scottish Exhibition and Conference Centre (SECC) is just one of many arts and entertainment venues located in the city. Home to a constant stream of international acts, conferences and exhibitions it offers something for everyone.

Located on the banks of the Clyde, the Riverside Museum celebrates Glasgow's renowned industrial heritage. The building itself is an engineering marvel designed by internationally acclaimed architect Zaha Hadid. The museum and its nearby neighbour Kelvingrove were among the UK's most visited museums in 2011.

Green Spaces
People visiting Glasgow for the first time are often surprised at the amount of green space in the city centre – all the 19th-century landscaped parks and gardens are the perfect balance to the urban pace of life.

Glasgow Green is by far the oldest park in the city and contains the People's Palace and Winter Gardens. It is within five minutes walk from our campus and is the ideal place to relax, play sport or take in some culture.

Pollok Country Park is a 10-minute train journey from central Glasgow and has held the prestigious title of Best European Park. It is home to the world famous Burrell Collection and Pollok house: a National Trust Property.

Sporting City
Glasgow is Scotland's sporting capital and will host the Commonwealth Games in 2014. If you are the active type the city has 23 pools and sports centres for you to choose from. These include future Commonwealth Games venues such as the Scotstoun Leisure Centre and National Badminton Academy. For winter sports there's no need to wait for snow because Glasgow's Xscape is home to one of the biggest indoor ski slopes in the UK.

Prepare to be caught under the spell of the Old Fruitmarket as soon as you walk through its doors! Hidden from view in the city's cultural Merchant City next to City Halls, it forms part of a complex dedicated to music and music education.

Scotland

Scotland is an ancient and industrious country that has had a big impact on the modern world. With Glasgow as a base Strathclyde students are perfectly positioned to explore everything the country has to offer.

Loch Lomond and the Trossachs are just a short drive or bus journey away from the University.

Location

Glasgow is just 40 minutes from the beauty of Loch Lomond and the start of the Highlands, 45 minutes by train from Edinburgh, a short hop by plane to London. It's a prime location, no matter where you would like to go... and our campus is five minutes from train, subway and bus stations, and just a quick 20 minutes' shuttle to Glasgow Airport.

Historic Towns

Edinburgh (45 minutes by train)

Edinburgh is a UNESCO World Heritage Site and is widely regarded as one of the most beautiful cities in Europe. Scotland's capital is home to the Scottish Parliament as well as a dazzling array of museums, galleries and cultural venues. Edinburgh's famous Hogmanay street party is a must see and Strathclyde students often make the trip through to the capital to 'see in the bells' on New Year's Eve.

The city has inspired a score of famous literary creations including Sherlock Holmes and Harry Potter, and book lovers gather annually at the Edinburgh International Book Festival for author's talks and book signings. If you happen to be in Edinburgh in August then it will be impossible to avoid the worlds' largest arts festival: The Edinburgh Festival Fringe.

Stirling (50 minutes by train)

If you're a history lover then Stirling is a must see. Home to some of the most momentous events in Scottish history it is a place of romance, royal castles and monuments. The National Wallace Monument is a potent symbol of Scotland that offers stunning views over the southern highlands after a dizzying climb up its spiral staircase. While in Stirling also visit Stirling Castles Renaissance Palace to experience what life would have been like for a Scottish monarch in the 16th century.

The Great Outdoors

Bag a Munroe

While in Scotland why not get active and 'bag a Munro'. Munros are Scottish mountains over 3,000 feet and there are 283 to choose from. A great one to start with is Ben Lomond which is located on the shores of the world famous beauty spot Loch Lomond, only a 40 minute drive from Glasgow.

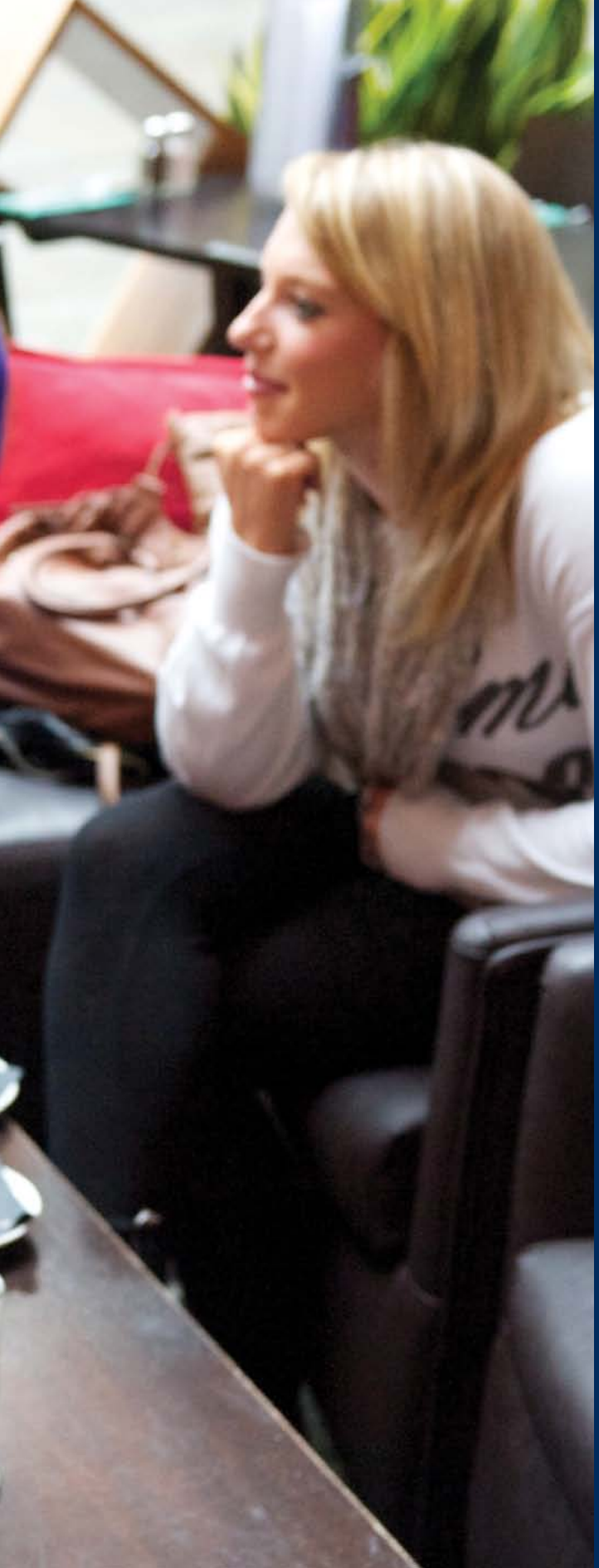
Ski Scotland

For snow sport loving students Scotland is the perfect destination with five high quality resorts to choose from. The ski resorts are ideal if you are a beginner as you will be able to take advantage of expert tuition. Advanced skiers can tackle the more challenging slopes of the Cairngorm resort, only a two-hour train journey from Glasgow.

The West Highland Way

During the summer months it has become a student tradition to walk the West Highland Way: a challenging trek of 93 miles through some of Scotland's most breath-taking scenery. Highlights of the walk include world famous destinations such as Loch Lomond and Glencoe. Starting in Milngavie on the outskirts of Glasgow, and ending in Fort William the terrain ranges from lowland moors and dense woodland to the romantic hills mountains of the Scottish Highlands.

The National Wallace Monument is a potent symbol of Scotland that offers stunning views over the southern highlands – well worth the dizzying climb up its spiral staircase.



Strathclyde Life

Your social life at University is a bit like study because you get out what you put in.

Euan MacAdie, Mathematics

Accommodation

The University has almost 2,000 rooms offering a variety of reasonably priced self-catered flats in the city-centre Campus Village and nearby Merchant City. This means you can live and study in the heart of Glasgow.

The Campus Village is predominately undergraduate. Our residences are mixed for both males and females with single sex flats, except for second year students, who can choose to live in a mixed group.

Halls of residence

The Campus Village is 95% undergraduate. Our residences are mixed for both males and females with single sex flats, except for second year students, who can choose to live in a mixed group.

At Strathclyde, each hall of residence is only a few minutes' walk from the main University buildings, and all enjoy excellent access to facilities, including the library, Students' Union and the Sports Centre, as well as the shops, bars, clubs and cafés of Glasgow's city centre and Merchant City. During the year there are opportunities to join in many social events, ranging from traditional Scottish celebrations to international events. All rooms have network points offering free internet access.

Am I eligible for on-campus accommodation?
All students who live beyond 25 miles of the University, have satisfied every condition of entry to the University by 1 September and who will be attending for the whole academic year will be eligible for a place in residence. We will send you information including a brochure and application form in June but you can also check our website, **www.strath.ac.uk/accommodation** and apply online. If you live within reasonable commuting distance of the University, you can still apply but you may be put on a waiting list. There are also a number of spaces for continuing students. An offer of accommodation will follow once we know you have firmly accepted an unconditional academic place. For many students this will not be until August, when most of the exam results are announced.

Costs
The costs are reviewed annually. As a guide costs for 2011 are as follows:

Campus Costs	£ p/w
Murray Hall	83
Birkbeck Court	81
Forbes Hall/Garnett Hall	84
James Young Hall	107
Chancellors Hall	82
James Blyth Court	82
Thomas Campbell Court	82
James Goold Hall	107
Andrew Ure Hall	76

Barbara Manson
Accommodation Services Manager
t: +44 (0)141 548 3454
e: student.accommodation@strath.ac.uk

I stayed in halls in first year and found it was the perfect introduction to life at Strathclyde. It's great because you learn to be independent and make lots of new friends in a small space of time.

Amy Weatherup, *Mathematics, Statistics & Accounting*

Students' Union

Whether you are looking for a great night out, or want to become involved in clubs, sports and volunteering opportunities, the Union is the place for you.

Getting involved in activities at the Union is a great way to meet people and make new friends. If you are interested in sport, there are about 40 teams and sports clubs you can choose from. There are also over 80 non-sporting clubs and societies at Strathclyde. The Executive (elected student representatives) ensure that the Association always represents the views of students and creates a fun and safe social environment.

Where to find us

The main Union building on John Street is the base for the Students' Association offices and services and student clubs and societies. There are bars and restaurants as well as the Union shop. Drop in to The Scene for a great menu and a comfortable place to eat, try one of the club nights in the Barony Bar, or have a game of pool in the Gameszone.

The St Paul's Building houses the Chaplaincy, Mature Students' Association, Strathclyde University Muslim Students' Association, as well as Fusion, the Strathclyde University Radio. It's just across the road from the main Union building, away from the hubbub of the Union's bars.

THE UNION A-Z

In addition to the social events on offer, the Union offers a wide range of services and opportunities for students. Our Students' Association campaigns for the rights and interests of it's students and have led successful campaigns and initiatives such as female only sports facilities and sessions, to free language classes. Below you'll find some of the opportunities on offer for you and services available to you as a Strathclyde student:

ASK (Advice Support Knowledge)
ASK is the Union's free independent advice and support centre, the friendly staff can assist you with any personal, financial and academic problems, as well as helping with stress and any queries you may have in a confidential manner.

Clubs and Societies
We have over 80 clubs and societies ranging from general interest, to course related ones, to political and more! There is something for everyone and it's a great way to make friends and gain skills and experience at the same time.

Forums and Policy council
The Students' Association runs three open forums – Better Association, Better University and Better Glasgow – which are a chance for students to come and get their views heard and shape what we do. We also have a Policy Council which students can run to sit on, this is where all Union policy is passed and is a great way for students to get involved in what the Union does but also gain some valuable skills.

RAG
RAG stands for Raise and Give and is the charities appeal at Strathclyde Union. Volunteers co-ordinate with local, national and international charities to raise money for campaigns. From bungee jumping to street collections, we do it all. You will have fun, and you'll also improve your teamwork and communication skills – great for the CV!

Halls Committees
Living in Halls is quite an experience, especially if it's your first time away from home. Each Hall has a committee which organises social events and a Halls Convenor to offer assistance if needed.

Mature Students' Association
Mature students can take advantage of free membership of the Mature Students' Association, which includes welfare and social representatives and a social programme throughout the year.

Faith Students' Facilities
The Union provides space for many different faith groups, such as a prayer room in St Paul's (based opposite the Union) for the Strathclyde University Muslim Students' Association. St Paul's also houses the University Chaplaincy.

Nightline
Nightline is a confidential telephone listening and information service which is run by students. Nightline is open Monday to Friday 7pm - 7am, and we are always looking for new volunteers – it's a great way to develop skills which can add to not only your CV but your experience at Strathclyde.

The 'speed meeting' event during Freshers' Week is a popular way of getting to know new people from around the world in a relaxed setting.

Students' Union

Sports Union
With almost 1,000 members, the Sports Union is one of the best ways to get involved with life at university. We have over 40 clubs, ranging from football to fencing, shinty to skydiving and rowing to rugby. For the first two weeks of the year, you can take part in all these clubs free of charge, so there's no excuse not to try that sport you've always been curious about.

There are also plenty of opportunities for development; we help to provide clubs with coaching, transport and equipment, so whether you just want to try, compete against other universities or have dreams of something bigger, we're here to help you get there. Our teams compete regularly in leagues across Scotland with the chance to progress to knockout stages that could see them playing against the best in the UK. In addition many teams and clubs have trips away, either to compete or simply social tours.

Student Media Centre
You can work on the student newspaper, the Strathclyde Telegraph; get involved with Strathclyde University Radio, Fusion or join Strathclyde Film Society– there are lots of opportunities to get started in media. We also have a Marketing and Communication Team who help our groups carry out research and publicise events.

Here at Strathclyde we know it's not just about passing exams. That's why we provide the sporting facilities that ensure you have a healthy study/life balance.

Out & about in the uni
The University offers a range of opportunities for you to get involved in the vibrant arts, music and the social scene that you expect when you are in the centre of one of the UK's most lively cities.

The **University's Music Society** boasts an impressive range of large-scale musical groups open to all Strathclyde students. These include a full symphonic wind band and big band, two choirs – one of 40 members and one of 80 members – and a full-scale symphony orchestra. In addition there are a number of smaller groups and ensembles.
www.strath.ac.uk/music

Are you interested in sports? Are you physically active, or would you like to be? The University provides excellent facilities and support for a wide range of sports and physical fitness. In addition to the team sports clubs run by the Sports Union, our **Centre for Sport & Recreation** provides:

- a range of fitness classes, fitness testing, health and lifestyle consultations, weight and fitness room inductions, sports coaching classes, and swimming and lifesaving classes an activities room for fitness classes and a range of martial arts
- a twin-court sports hall with six badminton courts and facilities for all major indoor games
- six squash courts
- a weight-training area with both multi-gym and free weights
- a cardiovascular suite with over 70 exercise machines, including cycles, rowing machines, treadmills and a Vibrogym
- a four-lane swimming pool
- a separate playing field (at Stepps) offering seven grass pitches for football and rugby, a blaes hockey pitch, an artificial cricket wicket and a sand-dressed, artificial grass, floodlit pitch for football, hockey and rugby

If you are a qualified athlete in a range of sports, you may be eligible for a bursary under the University Sports Bursary Programme, and, if you are a keen golfer, there are scholarships available through the University Golf Programme, supported by the Royal & Ancient Foundation.
www.strath.ac.uk/sport

Armed Forces Training Units
At the University of Strathclyde we are very proud of our links with the British Armed Forces and the opportunities provided through our three service units: the Royal Naval Unit, Officers Training Corps and Air Squadron.
www.strath.ac.uk/mec/serviceunits

Freshers' Week

The single most fun week in your University life – it's nine days jam-packed with fun from clubs and sports fairs, gigs, DJs and karaoke to speed meeting and International student events and much more! Information is sent out to all new and returning students. You can also find out what's going on from the website and Facebook.

Freshers' Week and the Students' Union are real highlights of studying there. I've had so many great experiences and met some fantastic people at the events they organise. There are lots of clubs and societies to get involved in so when I need a break from study I'm literally spoilt for choice.

Claire Sally, *English & Psychology*

Here for you

There are regular meetings and the support I have received has been invaluable.

Yansheng Zhang, Electronic & Electrical Engineering

STUDENT SUPPORT **Page 26-27:** Advice Centre, Information & Advice Team, Student Financial Support Team, Chaplaincy, Disability Service, Student Counselling, Student Health Service, Careers

Student support

We offer a range of services, advice and assistance to help you make the most of your time at Strathclyde. Our Student Handbook is a comprehensive directory of what we offer in services and support. You can download the current Handbook from our website (see above).

The Advice Centre is an invaluable asset and is run by staff who have an in-depth knowledge of issues that affect our students.

Advice Centre
Our **Information & Advice Team** offers advice, guidance and information on all issues associated with student life to home and international students, especially those that concern welfare, academic, immigration and personal issues. The team is also responsible for supporting student transition, including induction and orientation activities for home and international students.

e: tier4@strath.ac.uk and
e: infoandadvice@strath.ac.uk
t: 0141 548 4273

Our **Student Financial Support Team** offer information and advice for students and applicants. We also offer advice to any students who encounter financial difficulties during their period of study. Among the funds available is the Discretionary Fund, which is used to help students who encounter serious financial hardship, and the Childcare Fund, which can assist some students with their childcare costs. The University is also able to make short-term loans available to help students in difficulty.

e: s.finance@strath.ac.uk
t: 0141 548 2753
www.strath.ac.uk/studentfinancialsupport

The **Chaplaincy** offers hospitality to those of all faiths and none. The Chaplaincy Centre is a place where people of different faith traditions can exchange ideas and learn from each other, meet up with friends in the Ark Café, study in the library, worship in the Chapel, catch up with TV programmes or just relax in the common room. Many groups and societies use the Chaplaincy as their base (the Muslim Students' Association has its centre in the same building).

All students are welcome to use the Centre which is in St Paul's Building opposite The Union – feel free to drop in occasionally or make it your base.

e: chaplaincy@strath.ac.uk
t: 0141 548 4144
www.strath.ac.uk/chaplaincy

The **Disability Service** offers information, advice and assistance for applicants and students with disabilities. We support students with a range of disabilities including, but not limited to, dyslexia and specific learning difficulties, mental health issues, Asperger's Syndrome, long-term illnesses, and mobility or sensory impairment.

The Service 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.

e: disabilityservice@strath.ac.uk
Minicom: +44 (0)141 548 4739
www.strath.ac.uk/disabilityservice

Student Counselling is a free and confidential service for students offering short term individual counselling during term time. Counselling can help with many personal, relationship or identity problems, including anxiety, stress and depression. If you are experiencing any difficulties which prevent you from making the most of your time at university you can make an appointment to talk with a professionally trained counsellor.

We offer personal development workshops during the academic year around common issues which get in the way of studying effectively, such as building confidence, managing stress, and procrastination. If you prefer to make use of self-help material, a wide range of informative and interactive resources is available on our website.

e: student-counselling@strath.ac.uk
t: 0141 548 3510
www.strath.ac.uk/studentcounselling

The **Student Health Service** helps students with physical or emotional health issues and provides advice on such matters as finding a doctor. The Service also monitors and advises on health matters relating to study and working environments within the University.

e: studenthealth@strath.ac.uk
t: 0141 548 3916
www.strath.ac.uk/studenthealth

Careers

www.strath.ac.uk/careers

The Careers Service is here to help with all aspects of your career choice and job search. Our expert team provides great advice and information throughout your time at Strathclyde and beyond graduation.

Help and advice is available from your first year onwards, whether you are looking for a part-time job, internship, work placement or you want to take advantage of the range of summer, volunteering and extracurricular opportunities that will provide added impact to your CV after graduation.

It is never too early to begin planning your future career, and we would encourage you to access the Careers Service at an early point in your studies in order to effectively research options available in both postgraduate study and employment. As the end of your degree approaches, we offer valuable help with job-search, postgraduate study applications, CV and job application preparation and interview techniques, to support you in taking the first steps towards your future career.

If you are not sure what you want to do with your degree, the Careers Service can also help you to identify career paths that could suit your qualifications, experience, skills and personality

Faculty of Engineering

www.strath.ac.uk/engineering

Mark Stevens

MEng Civil & Environmental Engineering

Assistant Engineer, *Scotland Territory Structures Assessments, Amey*

Success in my chosen career would be influenced heavily by my place of study and being part of the largest Engineering Faculty in Scotland ensured that I was supported by the very best professionals in the field.

I decided to study Civil Engineering at Strathclyde as it offered a versatile skill set and variety of roles in a multitude of industries. The Department is renowned for its expertise in geotechnical, water and transport engineering as well as having excellent environmental credentials and is continually improving and evolving to meet present-day needs. Indeed I found many of my colleagues in the industry had also studied at Strathclyde – truly the place of useful learning.

The adrenaline rush aside, roped access engineering is a 'sunrise' market

My work with Amey involves the examination, inspection, assessment, maintenance and renewal of Network Rail infrastructure throughout the country – in particular the inspection and assessment of railway bridges across Scotland. Inspection covers measuring, photographing and carrying out corrosion surveys of the entire structure and involves roped access techniques in some of the most remote areas of the country. The adrenaline rush aside, roped access engineering is a 'sunrise' market with opportunities in the offshore wind and oil and gas industries. Assessment involves using the latest design codes and analysis software to work out how strong the structure is and this aspect helps maintain my technical proficiency in structural engineering. It is essentially design in reverse and gives me a solid foundation on which to build my structural knowledge.

Civil Engineering is under-subscribed by students and in great demand by society. Maintenance on the ageing Victorian railway infrastructure is never-ending and there is a skills shortage in the UK oil and gas industry which has recently announced £4.5billion worth of investment in the North Sea.

Quick Guide

Below is a list of undergraduate courses offered in the Faculty of Engineering

Page	Course	Degree	Highers	A Levels
48	Aero-Mechanical Engineering	MEng BEng (Honours)	AAAAB AAAB	AAA AAB
32	Architectural Studies	BSc (Honours)	AAAB	ABB
34	Chemical Engineering	MEng/BEng (Honours)	AAAAB	AAA
36	Civil Engineering	MEng BEng (Honours)	AAAA AAAB	AAA AAB
37	Civil Engineering & Environmental Management	MEng BEng (Honours)	AAAA AAAB	AAA AAB
44	Computer & Electronic Systems	MEng BEng (Honours)	AAAAB AAAB	AAA AAB
44	Electrical & Mechanical Engineering with International Study	MEng BEng (Honours) MEng	AAAAB AAAB AAAAB	AAA AAB AAA
43	Electrical Energy Systems	MEng	AAAAB	AAA
43	Electronic & Digital Systems	MEng	AAAAB	AAA
43	Electronic & Electrical Engineering with Business Studies with International Study	MEng BEng (Honours) MEng MEng	AAAAB AAAB AAAAB AAAAB	AAA AAB AAA AAA
46 48 46 46	Mechanical Engineering with International Study with Aeronautics with Financial Management	MEng BEng (Honours) MEng BEng (Honours) MEng MEng	AAAAB AAAB AAAAB AAAB AAAAB AAAAB	AAA AAB AAA AAB AAA AAA
49	Naval Architecture and Marine Engineering with Ocean Engineering with Small Craft Engineering	MEng MEng BEng (Honours) MEng BEng (Honours) MEng BEng (Honours)	AAAA AAAA AAAB AAAA AAAB AAAA AAAB	AAB AAB ABB AAB ABB AAB ABB
40	Product Design & Innovation	BSc (Honours)	AAAB	ABB
40	Product Design Engineering	MEng BEng (Honours)	AAAA AAAB	AAB ABB
38	Production Engineering & Management	MEng BEng (Honours)	AAAA AAAB	AAB ABB
52	Prosthetics & Orthotics	BSc (Honours)	AAAB	ABB
40	Sports Engineering	MEng BEng (Honours)	AAAA AAAB	AAB ABB

Note: Grades above are for first-year entry. Second-year entry grades and other qualifications are listed on pages 54 - 59.
Entry Requirements current at time of publications. Please refer to Terms & Conditions, pg 160.

Faculty of Engineering

Strathclyde has one of the largest, best equipped engineering faculties in the UK and the largest in Scotland. It is renowned internationally for research, teaching quality and strong links with industry. If you're serious about engineering, this is the place to make your mark.

The choice of subjects extends from civil, chemical, electronic and electrical, marine and mechanical engineering to design and manufacture, prosthetics and orthotics, and architecture. And, from interactive lecture rooms to state-of-the-art laboratories, the facilities are world-class. Our strong links with industry set us apart from other universities, as does the opportunity to spend part of your course studying abroad.

Degree Structure
Four-year BEng Honours courses and five-year MEng courses are available. Students who perform well on a BEng Honours course can transfer to the MEng. Four-year BSc Honours degrees are also available in a number of subjects. The academic year is organised into two semesters and you will normally study 120 credits each year.

Master of Engineering
The MEng (Master of Engineering degree) is for students of above average ability and requires higher entrance qualifications than the BEng. The first three years of the course usually match the BEng Honours curriculum but the final two years involve advanced study and, depending on the course of study, can include classes in areas such as law, business, leadership and management. Importantly, the MEng degree fulfils all of the educational requirements for Chartered Engineer status without further study after graduation. Project work is strongly emphasised and the degree is designed to place successful graduates in a position to achieve top managerial posts.

Scholarships
In addition to departmental scholarships, Strathclyde engineering students are successful in being awarded valuable scholarships, often worth thousands of pounds, from industry and professional bodies. These awards help students with their studies and personal development. Contributing organisations include BP, Iberdrola, Pöyry and the Royal Academy of Engineering.

International Experience
Many of our students take the opportunity to spend between three months and one academic year studying at a university abroad in locations such as Europe, Canada, the USA, Mexico, Australia, Japan and Singapore. Study abroad allows you to match classes you would have undertaken at Strathclyde with classes on offer in our partner universities overseas. These classes count towards your final degree, and employers tell us that international experience is a valuable asset in the job market. Language classes may be taken as electives during Years 1 and 2 to prepare for study abroad.

Employment Opportunities
With its strong links to business, the Faculty achieves a consistently high graduate employment rate. The reputation of engineering courses at Strathclyde, combined with the excellence of the University Careers Service, ensures you are well-prepared for finding employment. Students are also given help to find summer placements with relevant employers. This kind of work experience is invaluable in helping you choose your career and in preparing you for the workplace. Placements often lead to a graduate job on completion of your degree.

Our Engineering students also benefit from a unique annual recruitment and networking dinner, 'Gala', which is attended by more than 40 graduate recruiting companies. Many employers target Strathclyde courses and, as a result, students often have jobs lined up before they graduate. A growing number of students are awarded company scholarships to help finance their studies.

Key facts

Professional Accreditation
All our undergraduate Engineering courses are fully accredited by the relevant professional Engineering institutions allowing graduates to become eligible for Chartered Engineer status.

Kickstart your career
Summer placements, access to company scholarship schemes and interaction with industry professionals plus an annual recruitment and networking dinner will give your career a genuine head start.

Exceptional facilities
From state-of-the-art design kit to supercomputers, Scotland's largest engineering faculty has invested significantly in outstanding teaching facilities and world-class laboratories that few universities can rival.

Teaching excellence
The Faculty's teaching quality is consistently rated highly by official agencies and by students.

Reputation
The Faculty of Engineering has an outstanding reputation with employers worldwide, many of whom visit the University each year to recruit exclusively from our final-year students.

Leaders in research
Strathclyde engineering research has global impact and the Faculty is home to some of the UK's most significant practical research – from renewable technologies, to water and flood management and heart valves.

BSc (Honours)

Architectural Studies

UCAS K100

Higher 1st sitting **AAAB**

Higher 2nd sitting **AAAAB**

A Levels **ABB**

For full entry requirements, please see page 54.

Contact
Aileen Alexander
(Undergraduate Admissions)
t: +44 (0)141 548 3002
e: architecture@strath.ac.uk

Architecture

The Department of Architecture is research-led and student-centred. We equip our graduates with the imaginative, critical and industrious abilities needed to improve the quality of the built environment. All our courses have full professional UK recognition by the Architects Registration Board (ARB) and Royal Institute of British Architects (RIBA).

Architecture is an integral part of the world in which we live. It is about delivering buildings and spaces that fire the imagination and offer new ideas about how we might live. Encompassing the design of buildings and spaces, Architecture is unique in the way it draws on knowledge from art, history, cultural studies, science and technology to address complex problems that concern meeting human needs in the built environment. Our courses are creative and academically rigorous, focusing on practice and social engagement and our academic staff have a breadth of specialisms and work closely with Scotland's leading architects.

Professional Recognition
This course is professionally accredited by the ARB and RIBA. Both the BSc and BSc Honours degrees give exemption from RIBA Part 1. The postgraduate MArch degree gives exemption from RIBA Part 2. The title 'Architect' is protected by law and can be used only by those registered with the ARB. After gaining RIBA Part 2 and completing the requisite years in practice you may sit the professional exam that gives exemption from Part 3. On successful completion you become a registered architect.

Prizes and Scholarships
We encourage our students to compete for a range of University prizes, national and international awards and scholarships. Recent students have been recipients of awards internationally (ARCHIPRX 2011) and nationally from the Royal Institute of British Architects (RIBA), Royal Incorporation of Architects in Scotland (RIAS) SIX Awards, the Glasgow Institute of Architects (GIA), the City of Glasgow, the Royal Scottish Academy, the Scottish Ecological Design Association, OASYS CAD Design, and the Gradus Detail in Design Competition.

Placement Opportunities
At the end of third year it is recommended that all students take a year out in order to gain experience in architectural practice. Ideally, students will secure employment in an architect's office under the direct supervision of an experienced ARB-registered mentor. During this placement students will complete a Professional Experience and Development Record Sheet, which contributes to the record of 24 months' practical experience that must be undertaken before registering for the final professional exam.

Careers
Strathclyde Architecture graduates are highly regarded by architectural practices, both in the UK and abroad. Career opportunities range from work in large multidisciplinary practices to a wide variety of smaller architectural firms to working in the creative industries. The broad-based nature of the Architectural Studies degree has also allowed recent graduates to explore other career options in web design, theatre set design and in the computer games, film and music industries.

Course Structure
The course focuses on the design of buildings, towns and cities, as well as on the historical and theoretical ideas that inspire them. You will study how buildings are made and how materials and technologies are harnessed to

build them. You will be encouraged to seek new ways and rethink old ways of turning ideas into three-dimensional reality. The course content relates closely to the ARB's five thematic headings of:

- design
- cultural context
- technology and environment
- management, practice and law
- communication

Lectures, classes and studio design work run throughout the course. There are study trips each year to UK or European destinations. You can graduate with a BSc degree after Year 3 or a BSc Honours degree after Year 4. The first professional training year with an architecture practice is normally taken between Years 3 and 4.

Years 1 to 3 are structured around four main streams: Design Studio projects that comprise 50 per cent of the curriculum, supported by Experiencing Architecture seminars in methods of communication and classes in Cultural Studies (architectural history and theory) and Technology Studies (structural, constructional and environmental considerations).

Returning after your year out in practice, Year 4 of the course is the most challenging. You will finalise studio projects and produce a dissertation, which can be the foundation for further work in the postgraduate fifth year.

BSc (Honours) in Architectural Studies with International Study

Our extensive international connections give you the opportunity to study abroad, usually during Year 3. Increasingly, opportunities for architecture graduates are international. Those who can communicate in more than one language, and who are aware of different cultures and ways of working, are well placed to take advantage of such opportunities. In recent years students have studied at a number of schools of architecture in Europe, Asia, Australasia and the USA. Students and staff from many countries form part of the Department's lively international community.

Course Structure

You follow the same basic pattern as those on the BSc Architectural Studies course but, subject to satisfactory performance, you may transfer to the International Study stream and spend the second semester of Year 3 at an international partner institution. Study programmes are agreed in advance to match the home curriculum.

MEng

Chemical Engineering

UCAS H801

Highers 1st sitting **AAAAB**

Highers 2nd sitting **AAAABB**

A Levels **AAA**

BEng (Honours)

Chemical Engineering

UCAS H800

Highers 1st sitting **AAAAB**

Highers 2nd sitting **AAAABB**

A Levels **AAA**

Chemical Engineering by Distance Learning (part-time)

contact department

For full entry requirements, please see page 54.

Contacts

Full-time
Dr Iain Burns
Admissions Selector
t: +44 (0)141 548 2837
e: chemeng-ug-admissions@strath.ac.uk

Part-time Distance Learning
Kenneth Moffat
Distance Learning Manager
t: +44 (0)141 548 2399
e: chemeng-dl-admissions@strath.ac.uk

Chemical & Process Engineering

The Department of Chemical & Process Engineering is one of the largest such departments in the UK, offering innovative courses delivered by enthusiastic staff with a dynamic, progressive approach and many years of practical experience. All our degree programmes are accredited by the Institution of Chemical Engineers.

Chemical Engineers play a central role in finding sustainable solutions to 21st-century challenges such as providing people with clean water, medicines, food and fuel. Their work involves the design and operation of industrial processes that turn raw materials into valuable products and by developing novel processes and products that minimise environmental impact, Chemical Engineers can make a significant contribution to society.

If you like chemistry and maths, enjoy problem-solving and teamwork, and want to apply science in a practical way, then Chemical Engineering could be for you. It offers variety, challenge, intellectual satisfaction, flexibility and excellent career prospects.

Industry-orientated, the Department has strong links worldwide with major employers of Chemical Engineers and we are particularly proud of the excellent record of achievement of our graduates.

Each year about 12 students from years 3 and 4 are awarded summer bursaries to undertake a paid research project for about eight weeks. Many others obtain summer work placements in industry.

Teaching and Assessment

Teaching methods include lectures, small-group tutorials, problem-solving and online teaching, as well as practical laboratory sessions and site visits. Team-based projects are an important feature in each year of the course including a major design project in Year 4. There is also a focus on developing professional skills such as writing technical reports and giving presentations. Assessment methods include assignments, project work and lab reports. The final-year MEng project introduces you to professional responsibilities either in an industrial process plant or in a research laboratory, within the University or a European Higher Education Institution.

Prizes and Sponsorship

We recognise the achievements of students by awarding a number of prizes at the end of each year of the course. Through industrial support the Department also offers annual bursaries to a small number of selected students in later years of the course.

International Experience

You have the chance to spend Year 3 studying abroad. Through partnerships with a large number of universities we offer placements in locations such as Canada, the USA, Hong Kong, and Singapore. Alternatively, there is an opportunity to undertake your final-year project in a European university.

Careers

A degree in Chemical Engineering leads to a wide variety of opportunities for a satisfying and challenging career. Chemical Engineering is the broadest-based of the engineering disciplines and, as a result, demand for our graduates is high. There are opportunities in fields such as pharmaceuticals, bio-processing, oil and gas, petrochemicals, food processing, polymers, water purification, nuclear power and carbon capture.

Roles available to Chemical Engineers include design and operation of chemical processes, technical consultancy and research. Others follow a career path leading to a management role. Some Chemical Engineers use their problem-solving and analytical skills to move into other sectors, such as management

consultancy, accountancy and investment banking. The status of Chemical Engineers is reflected in the fact that they are among the best-paid scientists and engineers.

Course Structure

Year 1 – Skills for Independent Learning: Fundamental principles of Chemical Engineering encourage and develop the skills you need for confident, self-motivated learning. Choice of elective classes from a range of subjects offered across the University.

Year 2 – Chemical Engineering Principles: Grounding in the core Chemical Engineering subjects such as material and energy balances, thermodynamics, heat transfer, mass transfer and fluid flow, and an introduction to safety and project management. Chemical Engineering laboratory work is also introduced.

Year 3 – Technical Development: The principles taught in Years 2 and 3 are applied to practical Chemical Engineering operations, including reactor design, distillation, gas absorption and adsorption, evaporation, crystallisation, filtration and drying. Biochemical engineering, polymer processing and food process engineering are introduced, together with ethics, sustainability and economics. Laboratory work continues and you will carry out two small Chemical Engineering design projects to apply your growing knowledge to practical challenges.

Year 4 – Professional Training: Classes concentrate on specialist and professional subjects including pollution reduction, process control, advanced separations, energy systems and particle technology. A group project uses teamwork, communication and effective time management skills to produce a feasible design for a chemical process.

Year 5 (MEng only) – Advanced Chemical Engineering: You study key Chemical Engineering subjects in greater depth and breadth through a choice of specialist engineering and science subjects that expose you to the current frontiers of the discipline. For your project work you can choose to participate in cutting-edge research within the Department or to carry out an industrial placement to find out about the practical challenges of working as an engineer. A third option is to conduct research at one of our partner universities in Europe.

Chemical Engineering by Distance Learning

Our unique, award-winning Distance Learning programme, developed in partnership with industry, provides a part-time route to a Chemical Engineering degree for personnel employed in industry. Teaching and learning is based on comprehensive text-based self-study modules backed by online resources and tutorial sessions. The BEng Honours degree is undertaken over three years with the option to continue to MEng depending on results at the end of year 3. (Note that the MEng may require a 12-week period of full-time study).

Our state-of-the-art research laboratories include facilities ranging from light scattering and spectroscopy to adsorption measurements and high pressure viscometry.

MEng

Civil Engineering

UCAS H202

Civil & Environmental Engineering

UCAS H290

Highers 1st sitting **AAAA**

Highers 2nd sitting **AAABB**

A Levels **AAA**

BEng (Honours)

Civil Engineering

UCAS H200

Civil & Environmental Engineering

UCAS H291

Highers 1st sitting **AAAB**

Highers 2nd sitting **AABBB**

A Levels **AAB**

For full entry requirements, please see page 55.

Contact
Dr Neil Ferguson
t: +44 (0)141 548 3277
e: civeng-admissions@strath.ac.uk

Civil & Environmental Engineering

Our courses encompass the principal aspects of the theory and practice of Civil and Environmental Engineering. They are accredited by the Institution of Civil Engineers, the Institution of Structural Engineers and the Chartered Institution of Highways and Transportation.

Our graduates have strong technical abilities which they will use in tandem with practical and professional skills to create innovative solutions that meet society's needs while enhancing the built and natural environments. Staff and students come from across the world which gives the courses an international perspective and there are opportunities for you to study abroad as part of a student exchange scheme.

The annual four-week induction course which we run for first-year students involves various activities designed to make them feel at home in the Department. We also run a student mentoring system whereby senior students mentor new students and senior students are in turn mentored by civil engineering graduates. These activities illustrate the emphasis we place on teamwork which we believe is a core strength of our courses. Our graduates' ability to fit quickly and productively into teams in industry is recognised by employers and makes them highly employable.

Teaching and Assessment

Staff are engaged in cutting-edge research in a wide range of fields which is reflected in the course curriculum, particularly in the final years of our courses.

The Department is at the forefront of developing innovative teaching, particularly in the use of group design project work. Teaching modes include lectures and tutorials, student-led seminars, group projects, laboratories and fieldwork. Each year, you will have the opportunity to work on a design project, which builds on the technical knowledge and skills you have gained on the course. The Department enjoys strong links with industry and practising engineers deliver guest lectures, assist with design project work and host site visits. Our courses also develop transferable skills in problem-solving, management, communication and computing, all of which will be invaluable in your future career. Assessment is by a mix of degree exams and continuous assessment through coursework and tutorial performance.

Careers

Graduate engineers are in great demand by employers, because of their well-developed numeric and problem-solving skills and their experience in project and teamwork. Our graduates find employment across the construction industry including consultancy, contracting and in government agencies.

Our graduates have also been successful in developing careers in the energy sector encompassing renewables as well as oil and gas.

MEng/BEng (Honours) Civil Engineering

Civil Engineers play a leading role in providing and operating buildings, transport systems, water supply, wastewater treatment and power supply.

As a Civil Engineer you will learn how to take proposals from an initial idea to a finished project, creating designs, drawings and calculations from which you can build.

You will use theory and models to predict how your design will perform, test ideas in the field and be part of a team with a wide range of backgrounds and abilities.

Project work enables you to apply theoretical information to practical problems. Key supporting skills such as communication, information technology and safety are also developed.

Course Structure

The core Civil Engineering curriculum is common to all courses. In addition to the core classes, optional classes are taken relevant to your chosen course.

Year 1: Foundations of Civil Engineering,

including Mathematics, Engineering Science, Civil Engineering Design, Computing, Professional Skills.
Year 2: Structural Engineering, Geotechnical Engineering, Water Engineering, Geology, Surveying, Transport Engineering, Construction Technology.
Years 3 & 4: Structural Engineering, Geotechnical Engineering and Water Engineering continue. Water and Environmental Management, Transport Planning. Project dissertation. Fundamentals of business and management, all with an increased emphasis on design and project work.
Year 5 (MEng only): The fifth year curriculum is flexible and allows you to extend knowledge in areas of civil engineering as well as select options from across the Engineering Faculty including topics in renewable engineering. A wide range of topics is also available in business and management, environment and sustainability.

MEng/BEng (Honours)
Civil & Environmental Engineering

The past two decades have seen Environmental Engineering emerge as a major new field of study. Civil Engineering and Environmental Engineering are inherently linked as Civil Engineers build the links between the environment we work and live in and the natural environment.

The Civil & Environmental Engineering course provides the underpinning science-based engineering needed to integrate the sustainability requirements of modern society and the environment, with particular reference to sustainability and working at boundaries between 'traditional' disciplines within engineering and science.

The curriculum for this course provides a core of both Civil Engineering and Environmental Engineering, offering you the opportunity to explore and understand how Civil and Environmental Engineering are central to the modern-day environmental issues. The key issues of Waste, Water and Wastewater Treatment, Urban Regeneration, Contaminated Land Remediation, Hydrogeology and Transportation will be covered alongside the more traditional subjects of Geotechnical, Water and Structural Engineering.

Graduates are expected to be in high demand across the profession as major issues such as climate change and sustainable economic growth are tackled.

View the video of our first-year student project to build a water tower from paper and test it to destruction by scanning here with your smart phone.

MEng

Product Design Engineering

UCAS H770

Production Engineering & Management

UCAS HN7F

Sports Engineering

UCAS HC16

Highers 1st sitting **AAAA**

Highers 2nd sitting **AAAABB**

A Levels **AAB**

BEng (Honours)

Product Design Engineering

UCAS H771

Production Engineering & Management

UCAS HN72

Sports Engineering

UCAS CH61

Highers 1st sitting **AAAB**

Highers 2nd sitting **AAABBB**

A Levels **ABB**

BSc (Honours)

Product Design & Innovation

UCAS W240

Highers 1st sitting **AAAB**

Highers 2nd sitting **AAABBB**

A Levels **ABB**

For full entry requirements, please see page 56.

Contact
Caroline McGuire
t: +44 (0)141 548 2839
e: caroline.mcguire@strath.ac.uk

Design, Manufacture & Engineering Management

www.strath.ac.uk/dmem

The Department of Design, Manufacture & Engineering Management (DMEM) provides a dynamic and stimulating environment for study, with flexible teaching space and modern laboratories. Our fields of expertise range from creative and engineering design, through manufacturing and supply to the management of the entire value chain.

The Department offers the chance to study product realisation – from design through to manufacture. Our exciting and challenging undergraduate programmes are designed to develop tomorrow's industry and business leaders. Development of interpersonal, presentation, management, leadership and entrepreneurial skills, through group activities and integrating studies, is an integral feature of our degrees and our graduates are in high demand by employers.

The Product Design Engineering and Production Engineering & Management courses have common content in Years 1 and 2, which means that students can transfer between these courses up until the end of Year 2. In addition to the core curriculum, elective classes during Years 1 or 2 allow you to choose from a wide range of subjects offered throughout the University.

The option of overseas study in Year 3 is popular, with many students spending some of the academic year in Australia, Canada, North America, Singapore and in various European countries.

Professional Accreditation
Three prominent professional institutions accredit all our BEng (Honours)/MEng courses: the Institution of Engineering and Technology, Institution of Mechanical Engineers and Institution of Engineering Designers. The Sports Engineering BEng (Honours)/MEng is additionally accredited by the International Sports Professionals Association. The BSc (Honours) Product Design & Innovation course is accredited by the Institution of Engineering Designers.

Teaching and Assessment
Our courses are taught by a blend of lecture and practical project-based sessions. You will complete work individually and as part of a team, reflecting the nature of work you will undertake in industry and the modern commercial world. Assessment is based on coursework, projects and exams.

Careers
Many companies return year-on-year to recruit from the Department, with some graduates choosing to embark on a graduate trainee programme with companies such as Diageo, Accenture, Unilever, Procter & Gamble, Rolls-Royce and Jaguar.

Production engineers and managers have a broad spectrum of possible careers in engineering and general management roles, possibly becoming 'captains of industry' at a senior executive level.

Product design engineers have the opportunity to enjoy careers as design engineers, process engineers, CAD engineers or teachers.

Product Design & Innovation graduates enjoy a variety of career opportunities in manufacturing industries such as electronics, food and drink, and pharmaceuticals.

Sport Engineering graduates have a wide choice of careers in the areas of product design (sport-related or other), medical device design, engineering and sports science.

MEng/BEng (Honours) Production Engineering & Management

Everything we use, eat, watch, hear or wear has to be created using the skills of Production Engineers and Managers. Production is now an international phenomenon and a global

Student profile

Victoria Rowlinson

MEng Product Design Engineering

I became excited about Product Design Engineering after taking part in a 'girls in engineering' course at Strathclyde. I was impressed by the engineering facilities and how helpful and enthusiastic the lecturers and technicians were.

I had a summer internship at Procter & Gamble which was a great opportunity to take what I had learnt and apply it to the real world. My favourite project involved developing an e-retail strategy for Pringles! It was a challenge and I had a lot of responsibility.

The wide variety of subjects on offer has helped keep my options open as to where I can go once I graduate. I have worked on individual projects developing my personal abilities and interests and team projects have developed my teamworking and communication skills; I now feel ready to take the next step and start my career.

Design, Manufacture & Engineering Management

www.strath.ac.uk/dmem

perspective is essential for an organisation to be successful in today's highly competitive economic environment. This interdisciplinary course will provide you with the knowledge to become a dynamic player in this exciting, stimulating, and challenging arena. Production engineers and managers do not just create technological solutions, they must also constantly motivate, organise, and interact with others in order to ensure products and services are provided when and where the customers' needs exist.

The course is designed to ensure that you graduate with a set of skills and knowledge that will allow you to not only cope with these changes but also to be proactive in making them happen.

Course Structure
In the early years you will receive a good grounding in the fundamentals of a variety of engineering disciplines, materials, mathematics, design principles, and production and management methods. Subsequent years provide experience of product and process design. Specific topics may include: Computer-Aided Design, Mechatronics, Advanced Production Technology, and Supply Chain Management. Throughout the course you will experience group and individual project work, culminating in a final-year individual project of your choice, as well as a group project working with an external organisation.

MEng/BEng (Honours) Product Design Engineering

Product design engineers take basic ideas and turn them into fully functioning products. You will acquire creative engineering skills necessary to develop products which not only do what they are intended to do but also look good and offer value for money. Skills in ergonomics, aesthetics and graphic communication sit alongside those in engineering, materials and manufacture.

Course Structure
After the first two foundation years, the course focuses on specialised design topics such as Industrial Design, Mechatronics and Computer-Aided Design. A wide range of optional classes allows you to develop your own interests.

BSc (Honours) Product Design & Innovation

Product Design & Innovation is concerned with the design and development of new and innovative products to meet the customers' needs. Graduates have core knowledge of the design process, ensuring that well-designed products are also suited to particular companies and markets.

You will develop a wide range of creative, analytical and practical skills to deal with the many problems which must be overcome to turn a good idea into a best-selling product. Fundamental engineering skills are also nurtured, enabling you to understand how products function. Skills in ergonomics, aesthetics and graphic communication sit alongside those in marketing and enterprise management.

Course Structure
The course focuses on Product Design and Management with a wide range of related subject matter in Engineering, Marketing, Entrepreneurship and Professional Practice.

MEng/BEng (Honours) Sports Engineering

Sports Engineers are involved in designing new products and/or improving and measuring sporting performance. The course will enable you to develop the tools and techniques of product design within the context of sports product development. This includes knowledge of the physiological response of the body when participating in sports and interacting with sporting equipment. The course is run by DMEM with significant input from other specialist departments. Skills in ergonomics, aesthetics and graphic communication sit alongside those in sports science, materials and manufacture.

Course Structure
Years 1 and 2 are foundation years, which offer a grounding in Design, Manufacture, Management and Materials with Physiology, Anatomy and Biomechanics. Years 3 and 4 provide more advanced modules on Industrial Design, Mechatronics and Computer-Aided Design, together with scientific aspects of sports and exercise. In Years 4 and 5, in addition to selecting from a range of optional classes, the focus is on project work – both individual and in a group.

Electronic & Electrical Engineering

www.strath.ac.uk/eee

Our Department has a world-class reputation for its teaching and research, and is consistently rated in the top 10 such departments in the UK. We have very high student satisfaction and graduate employment rates, and offer an extensive industry-supported Scholarship Programme.

MEng

Electronic & Electrical Engineering
UCAS H601

Electronic & Electrical Engineering with:
Business Studies UCAS H6N1
International Study UCAS H6L2

Electrical Energy Systems
UCAS H630

Electronic & Digital Systems
UCAS H690

Computer & Electronic Systems
UCAS GHK6

Electrical & Mechanical Engineering
UCAS HH6H

Electrical & Mechanical Engineering with International Study
UCAS tbc

Highers 1st sitting **AAAAB**
Highers 2nd sitting **AAAABB**
A Levels **AAA**

BEng (Honours)

Electronic & Electrical Engineering
UCAS H600

Computer & Electronic Systems
UCAS GH46

Electrical & Mechanical Engineering
UCAS HH63

Highers 1st sitting **AAAB**
Highers 2nd sitting **AAAAB**
A Levels **AAB**

For full entry requirements, please see page 57.

Contacts
Dougie Grant (Academic Selector)
t: +44 (0)141 548 2097
e: d.grant@eee.strath.ac.uk

Darren Rank (general enquiries)
t: +44 (0)141 548 2625
e: darren.rank@eee.strath.ac.uk

Electronic and electrical engineering has an enormous impact on our daily lives. From power stations to electric vehicles, telecoms networks to 'smart' technologies, and electronic systems at home, in the entertainment, medical and industrial sectors: all are conceived, designed and operated by electronic and electrical engineers.

Creating innovative solutions to today's global challenges demands vision, technical expertise and business understanding. By graduating from one of our courses, you will gain all these skills, progressing to highly-rewarding careers.

Why study Electronic & Electrical Engineering at Strathclyde?
All our courses are fully accredited by the relevant professional body meaning you meet all the educational requirements to gain 'chartered engineer' (CEng) status – a must for most employers – fast-tracking your way to professional recognition.

Is there any financial support?
Our Department runs the UK's largest industry-supported Scholarship Programme, providing annual bursaries of up to £5,000, as well as help with books, software and summer internships with companies such as SSE, PB Power, Rolls-Royce and Siemens. The Programme is open to all our students:

- **IET Power Academy** – we are the only Department in Scotland in the Academy, and currently have 130 scholars
- **BP Scholarships** – we are the only Scottish university member
- **FM Bruce Scholarships**
- **Royal College Prestigious Awards** – for international applicants of outstanding academic calibre
- **S6 Bursaries** – a £250 bursary, awarded on academic merit, to eligible S6 applicants

Full details can be found at **www.strath.ac.uk/eee/scholarshipsandfunding**

What about links with Industry?
BP, Thales and ScottishPower are just a few of the companies with whom we have excellent links. They help us provide state-of-the-art teaching facilities, ensure our courses are relevant to the job market and give you direct contact to major employers while studying with us.

Teaching and Assessment
A blend of interactive lectures, tutorials and practical laboratories are used throughout all years of study. These ensure you develop not only technical engineering expertise but also communication, project management, leadership and entrepreneurial skills which are equally important. Assessment is by exam, continuous assessment, and in Years 4 and 5, individual and group design projects.

Can I study abroad?
Study abroad is an option for all our courses and many students take up this opportunity, adding an international dimension to their degree. We have exchange agreements with universities across Europe, the USA, Canada, Hong Kong, Singapore, Australia and New Zealand.

What about careers?
Well-paid careers, with average starting salaries of £26,000, exist in the automotive and aerospace industries; power engineering;

Student profile

Jennifer Kincaid

MEng Electronic & Electrical Engineering

I chose Strathclyde because of its electronic and electrical engineering excellence. From scholarships to industrial placements, and student projects linked to its research activities, the Department offers amazing opportunities.

I got to work with researchers at the forefront of new developments and gained invaluable industrial experience through my IET Power Academy Scholarship. This included placements with UK Power Networks – one of which involved working on smart technologies for the Low Carbon London project.

Electronic & Electrical Engineering

www.strath.ac.uk/eee

oil and gas exploration; transportation; renewable energy; consumer electronics design and telecommunications, as well as management consultancy and IT.

What else goes on?
You can participate in Formula Student to build and race a single-seat racing car, attend the Gala recruitment dinner and also join StrathSeds – the society for the exploration and development of space. Opportunities also exist to be a member of the expedition teams on the Department's energy projects in the Gambia.

MEng/BEng (Honours) Electronic & Electrical Engineering (EEE)

Years 1-3 of the core degrees follow a common curriculum, providing fundamental technical knowledge and relevant analytical skills. This means there is flexibility for you to change course before you specialise in Years 4 and 5. Transfer from the BEng to the MEng is possible after any year and the courses are fully accredited by the Institution of Engineering and Technology (IET).

Course Structure
Years 1 & 2: Classes in mathematics, engineering science, software design, electronics, electrical engineering, computing and business are taken. You complete group design projects in hydrogen-powered vehicles and wireless communications, to gain practical training in core engineering applications and develop project management skills.
Year 3: Knowledge and understanding of the key technologies are consolidated. You begin to develop specialist engineering skills in your preferred subject area through a selection of classes including electromagnetics, embedded systems, power engineering, renewable technologies and engineering innovation.
Year 4 (BEng Honours & MEng): You customise your studies through a personalised curriculum, combining classes from a range of topics with a major individual design project. Topics include communications networks, electric vehicle technologies, robotics design, multimedia systems, information security and energy supply systems. BEng Honours students graduate at the end of this year.
Year 5 (MEng only): A major group project and selection of classes from advanced topics are completed to develop specialist engineering expertise and business management skills. Topics include DSP, microcontroller systems, embedded systems design, high voltage technologies, and mobile & wireless communications.

MEng Electronic & Electrical Engineering with Business Studies

This degree follows the same structure as the core EEE degrees, but integrates specialist classes in business, management and entrepreneurship throughout all years of study. These classes are delivered by the University's internationally renowned Business School.

MEng Electronic & Electrical Engineering with International Study

In the increasingly global context of engineering practice, studying abroad is highly valued by prospective employers. This degree follows the same structure as the core EEE degrees, but integrates a full academic session (Year 4) at a partner university overseas. Opportunities for language study are available in support of the year abroad and full academic credit is given for classes studied overseas.

MEng Electrical Energy Systems

Electrical energy is vital in today's society. It powers manufacturing and transport, provides heat and light, and underpins all aspects of modern life.

One of the biggest challenges facing society is the need for reliable energy supplies with minimum impact on the environment. This MEng course was designed in response to that need in order to produce engineers qualified to deal with the complex issues surrounding the supply of electrical energy and the applications of electrical power. The course is fully accredited by the IET.

You follow the course structure for Years 1 to 3 of the core EEE degrees (see left). Specialist topics such as energy technologies, electric vehicles, mechatronic systems and robotics are taken in Years 4 and 5, along with the individual and group design projects.

The increasing use of renewable energy sources needs engineers with skills in advanced electrical technologies. The search for carbon neutral energy sources requires innovative engineering solutions involving fuel cells, solar, wind, wave and tidal technologies. Examples of such innovation in practice include the Department's energy projects in the Gambia and opportunities exist for you to participate in these projects.

In its Energy Policy, the Scottish Government stated that it is Scotland's ambition to become a world leader in green energy. With a recognised shortage of engineers in this sector, as a graduate of this course you will have excellent career prospects.

MEng Electronic & Digital Systems

Electronic systems are integral to nearly every aspect of 21st-century life. Spectacular advances in technology, design and development are enabling increasing capabilities to be embedded into ever-smaller electronic devices. New approaches within optical computing and nanotechnology provide the potential for even greater advances. This MEng course produces engineers who understand and can exploit such advances in electronic technology. The course is fully accredited by the IET.

You follow the course structure for Year 1 to 3 of the core EEE degrees (see left), with specialist topics chosen in Years 4 and 5. Topics include digital signal processing technologies for embedded systems design; video and image processing systems including HDTV, 3D TV and video surveillance; robotics, sensing and control systems; and digital systems for wired, wireless and optical communications, information transmissions and security systems.

Globalisation of the electronic and digital sectors means if you wish to work abroad, this course provides an ideal passport to anywhere in the world. Samsung, Xilinx, Nokia and Texas Instruments are just some of the international household brands with whom our graduates have gained employment. Graduates also have the technical expertise and interpersonal skills demanded by Scottish employers including Wolfson Microelectronics, Philips, BT, SelexGalileo, Thales and Linn Products.

Electronic & Electrical Engineering

www.strath.ac.uk/eee

MEng/BEng (Honours)
Computer & Electronic Systems
(delivered jointly with the Department of Computer & Information Sciences)

What do 3D TV, digital cameras, smart phones, the iPad and sports instant replay have in common? They are all examples of technology which have been developed combining skills from both Computer Science and Electronic Engineering. These disciplines have become increasingly intertwined in recent years, so there is an acute need for engineers with the ability to create and embed intelligence into the products and systems of the future. Engineers with operational and technical expertise in both electronics and software engineering are needed to design the next generation of computer apps, interactive vehicle robotic agents that monitor driver information and respond accordingly, or digital cinema technology. These degrees are designed to produce such highly skilled professional engineers.

Triple accreditation from the IET, the Science Council and the British Computer Society ensures you will have the technical expertise and skills to compete for job opportunities in engineering, science and IT. You will also gain chartered status in any or all three disciplines after relevant industrial experience.

The fundamental principles and concepts are established in electronic engineering, mathematics and computer science classes in Year 1. Years 2 and 3 build on this base while introducing you to programming languages and techniques; computer communications; and hardware and software engineering systems. In Years 4 and 5 you control your degree's focus by choosing specialist topics to match your own personal career aspirations. Topics include multimedia information, embedded systems, AI techniques, e-commerce and computer security. Transfer from BEng to MEng is possible after any year.

The employability of our graduates is one of the highest of all disciplines. They have taken up posts as systems analysts, information security engineers and software designers with employers such as RealTime Engineering, Telesoft Technologies, BT and the Citi Group.

The Gambia project aims to provide sustainable light and energy solutions to rural communities. Our students form part of the expedition teams which visit each year. View our recent trip by scanning here with your smart phone.

MEng/BEng (Honours)
Electrical & Mechanical Engineering (EME)
(delivered jointly with the Department of Mechanical & Aerospace Engineering)

These courses cover the key areas of both electrical and mechanical engineering, reflecting the multidisciplinary nature of modern engineering and the demand for graduates with technical expertise within and across the boundaries of both disciplines.

Dual accreditation by the IET and Institution of Mechanical Engineers ensures you will have the relevant skills and expertise to capitalise on career opportunities in both or either discipline. Rolls-Royce, ScottishPower and Network Rail are examples of employers who target our graduates.

Mechanical, electrical, electronic, computing, sensor and control elements all combine to form an integral part of modern engineering systems and are essential to meet new challenges in engineering innovation. Examples include renewable energy generation, hybrid petrol/electric vehicles, aircraft operations, satellite technology and space exploration, product recycling and pollution monitoring.

You will study core subjects in electrical and mechanical engineering, mathematics and computer-aided design in Years 1 to 3 to gain a solid engineering education. Specialist topics are chosen in Years 4 and 5 according to individual career aspirations. Transfer from BEng to MEng is possible within the first three years.

MEng Electrical & Mechanical Engineering with International Study
In the increasingly global context of engineering practice, studying abroad is highly valued by prospective employers. This degree follows the same structure as the MEng EME degree, but integrates a full academic session (Year 4) at a partner university overseas. Full academic credit is given for classes studied overseas.

Student profile

Edward Corr & Jamie Corr

MEng Electrical & Mechanical Engineering
MEng Computer & Electronic Systems

We opted for the same department because of its international reputation, but different courses so we could focus on our individual interests. Despite this, we've had the same opportunities and both courses deliver a great mix of theory and practice.

I've completed placements with a renewable energy company, gained a BP scholarship and received the Rolls-Royce Award for Engineering Excellence for my Year 4 project. Jamie's had placements with a local electronics company to gain relevant experience for the job market.

As members of the University's Formula Student racing team, we've put our technical skills into practice, helping with the design, electronics and construction of the car. Jamie even got to be one of its drivers last year in the UK & Germany competitions at Silverstone and Hockenheim!

MEng

Aero-Mechanical Engineering
UCAS H421

Mechanical Engineering
UCAS H302

Mechanical Engineering with International Study
UCAS H304

Mechanical Engineering with:
Aeronautics
UCAS H3H4

Financial Management
UCAS H3N3

Highers 1st sitting **AAAAB**
Highers 2nd sitting **AAAAAB**
A Levels **AAA**

BEng (Honours)

Aero-Mechanical Engineering
UCAS H420

Mechanical Engineering
UCAS H300

Mechanical Engineering with International Study
UCAS H303

Highers 1st sitting **AAAB**
Highers 2nd sitting **AAAAB**
A Levels **AAB**

For full entry requirements, please see page 58.

Contact
Dr Alex Galloway
t: +44 (0)141 548 3492
e: alex.galloway@strath.ac.uk

Mechanical & Aerospace Engineering

www.strath.ac.uk/mae

The Department of Mechanical & Aerospace Engineering is consistently rated in the top 10 such departments in the UK. All our courses are accredited by the Institution of Mechanical Engineers. The courses in Aero-Mechanical Engineering are also accredited by the Royal Aeronautical Society.

Mechanical engineers are recognised for their knowledge and skills in conceiving, designing, implementing and operating devices, machines, engines, energy systems and a host of other working things. Strathclyde Mechanical & Aerospace Engineering graduates are part of a new breed of engineer who can take on challenges ranging from more traditional industries to areas such as new materials, sustainable development and aerospace.

MEng students can choose appropriate specialised options from a wide portfolio of classes and have the specialism reflected in their final degree title; these are known as the 'Mechanical Engineering with...' degrees (listed left). Those choosing Financial Management develop a valuable awareness of the financial aspects of engineering management, including raising capital in the bond markets to finance innovation in the engineering industry. Such awareness is highly sought-after and rewarded by employers.

The Department has pioneered the use of active learning techniques in the interactive classroom, and innovative approaches to teaching design.

Contact with industry is maintained through an Industrial Advisory Board which represents major national and local employers, and ensures courses are relevant to employers' needs. Many of our students secure industrial training placements and some are sponsored. There is close liaison between the Department and the University's award-winning Careers Service.

Study abroad is an option for all our courses, and the named degree (Mechanical Engineering with International Study) ensures that the international study experience is recognised in the title of the degree award.

Other Activities

A high proportion of our students participate in activities, such as the Outdoor Management Skills course at Outward Bound Scotland, the national competition for a Formula Student racing car, the British Model Flying Association's University Challenge, Eco-marathon and 'Gala' the annual employers' dinner.

Teaching and Assessment

Interactive teaching in first year uses active and collaborative learning in the large lecture room through use of remote-control handsets and group work. Maths, Mechanics, Thermodynamics and Fluid Mechanics, and Electrical Engineering teaching sessions make use of the University's Interactive Teaching Cluster. The Design and Engineering Applications sessions take place in the applications workshops and the design base rooms. Later years use a blend of lectures, tutorials and group design activities. Assessment is by exam, continuous assessment and, in Years 4 and 5, individual and group project submission.

Careers

A degree in Mechanical Engineering is an international passport to an interesting, challenging and well-rewarded career. The main areas of employment are in design and manufacture, research and development management, project engineering and technical support, sales and marketing.

Graduates reach positions of authority and responsibility in the UK and worldwide. The Department is targeted for graduate recruitment by over 60 companies and in recent years, almost all of our graduates have secured employment before or within six months of graduation.

Course Structure

The majority of our students follow five-year MEng

Student profile

Gemma Ramsey

MEng Mechanical Engineering

As well as the standard engineering classes, my course also includes classes in professional development and case studies in engineering which are an opportunity to learn from engineers in the industry.

In my third year I took part in a Management Skills Field Course at Loch Eil which was a fantastic experience. I had the chance to try kayaking, rock climbing and abseiling and we finished the trip off by climbing Ben Nevis!

I was also selected for an Interns at Strathclyde award which gave me the opportunity to conduct research for the university and BAE Systems and resulted in me publishing my first paper.

Strathclyde is more than classes and exams. I play hockey for the University and it is a huge part of my student experience. Getting involved in the student community will make your life at university much more exciting and interesting.

Mechanical & Aerospace Engineering

courses. All students experience the same learning pace in the first two years and BEng students can, and often do, transfer to the MEng cohort.

Our students follow a common core in Year 1 and, to a large extent, Year 2. This means you can decide to change course, before specialising in Years 3, 4 and 5. The Aero-Mechanical courses diverge from the core earlier to develop specialist themes. Aeronautical topics can also be pursued in other Mechanical Engineering courses, where the specialised material is concentrated more in Years 4 and 5 of the MEng programme. The flexible structures allow transfers between courses, normally until the end of Year 3.

Year 1: Skills for Lifelong Learning
Fundamental principles and concepts are established in Maths, Mechanics, Dynamics, Thermodynamics and Fluid Mechanics and Electrical Engineering. The Engineering Science content is integrated through the Design and Engineering Applications classes. You also choose elective modules.
Year 2: Engineer's Toolkit
Focus is on the mainstream core of engineering subjects, together with Applied Mathematics and Information Technology. Elements of specialisation in Aeronautical Engineering are introduced via elective modules. The Engineering Science element includes Thermodynamics and Fluid Mechanics, Dynamics and Control, and Structural Mechanics and Materials. You may choose elective modules to develop language skills or business management awareness and entrepreneurship.
Year 3: Integrated Engineering
Design is the central theme of this year. You undertake design exercises and supporting engineering science modules relevant to your degree specialisms. Professional and strategic management issues are developed through seminars and group work. You may spend some or all of this year studying abroad on a compatible course.
Years 4 & 5: Professional Training
You will begin to operate as a professional engineer, working closely with academic staff as mentors. The separate threads of engineering science, design tools and strategy awareness come together in the Individual Project and the Group Project, which are mandatory for professional accreditation. Supporting lectures and seminars in Years 4 and 5 depend on the route followed.

Year 4 (BEng): In addition to the Individual Project you take classes in relevant core areas. BEng Honours candidates graduate at the end of this year.
Years 4 & 5 (MEng): MEng study broadens your horizons and deepens your understanding of specialist areas such as Aerodynamics, Aero-Propulsion Systems, and Finance. MEng students also undertake a Group Project in Year 5, which depends on teamwork, creative collaboration, communication and effective management. Those who have not spent a year abroad in Year 3 may do so in Year 5, following a Master's equivalent course.

MEng/BEng (Honours)
Aero-Mechanical Engineering

You will learn about Aerodynamics, Flight and Spaceflight Mechanics, Aero-propulsion Systems, Gas Dynamics, Computational Fluid Dynamics, Materials for Aerospace Applications, Aero-elasticity and Lightweight Structures. You also learn how to design aircraft engines, control systems, landing-gear and about the many complex parts which sustain flight. Many of the aero-related topics, such as Aerodynamics and Lightweight Structures, are of special interest and value to a wide variety of engineering activities outside the field of aeronautics.

Course Structure
Years 1 & 2: As the Mechanical Engineering Core previously outlined, but with an introduction to Aeronautical Engineering within the elective structure. At the end of Year 2, you complete a hands-on flight experience field course at a gliding school.
Year 3: Introduces various aeronautical topics, such as Flight Mechanics, Spaceflight Dynamics and Aerodynamics, in parallel with the Mechanical Engineering Core. The design and manufacture of a remote-control scale aircraft and flight simulation studies are also introduced.
Years 4 & 5 (BEng and MEng (Honours)): All students undertake a major aero-related Individual Project and MEng students also participate in a Group Project.

MEng/(BEng (Honours)
Mechanical Engineering with International Study

The opportunity to take part of your engineering course at a top university in another country is unparalleled in its potential to broaden and mature your educational experience. It is also highly relevant to the increasingly global context of engineering practice and is valued by prospective employers. The Department has over 20 years' experience of student exchange and integrating study abroad in its programmes and the two-way annual flow of students is unequalled in comparable departments.

Course Structure
The courses integrate a full academic session at a partner university abroad, either in Year 3 or Year 5 (MEng only) and full value is accorded to classes studied in the partner institution.

Years 1 & 2: Electives within the Mechanical Engineering Core programme are available to develop language competence if necessary, or introductory engineering or business topics.
Year 3: BEng students spend the two semester academic session in the partner institution. Study programmes are agreed in advance to match the home curriculum and you are not required to take extra classes on returning. MEng students may elect to go abroad in Year 3, or defer the study abroad period to a more advanced level in Year 5.
Years 4 & 5: Both BEng Honours and MEng students follow the Year 4 Mechanical Engineering Core curriculum in which the Individual Project is a significant element.

MEng students who choose to spend Year 5 abroad undertake an agreed curriculum designed to meet the requirements of the Institution of Mechanical Engineers. There are usually opportunities at the partner institution to study advanced engineering special subjects that may not be available at home, or to take advantage of local engineering business elective modules. Your curriculum must also include a Group Project in which you work with other Master's students in the host country.

MEng/BEng (Honours)
Electrical & Mechanical Engineering

Delivered jointly with the Department of Electronic & Electrical Engineering. Details of this multidisciplinary course comprising elements of electrical and mechanical engineering, are located on pg 44.

Naval Architecture & Marine Engineering

www.strath.ac.uk/na-me

The Department of Naval Architecture and Marine Engineering is a key provider of marine technology expertise in the UK and beyond. Our degree courses are accredited by the Royal Institution of Naval Architects (RINA) and the Institute of Marine Engineering, Science and Technology (IMarEST).

MEng

Naval Architecture
UCAS H500

Naval Architecture & Marine Engineering
UCAS HJ56

Naval Architecture with: Ocean Engineering
UCAS H513

Small Craft Engineering
UCAS H521

Highers 1st sitting **AAAA**
Highers 2nd sitting **AAABB**
A Levels **AAB**

BEng (Honours)

Naval Architecture & Marine Engineering
UCAS JH65

Naval Architecture with:
Ocean Engineering
UCAS H512

Small Craft Engineering
UCAS H520

Highers 1st sitting **AAAB**
Highers 2nd sitting **AABBB**
A Levels **ABB**

For full entry requirements, please see page 58.

Contact
Dr Dimitris Konovessis
t: +44 (0)141 548 3323
e: d.konovessis@strath.ac.uk

Naval Architects and Marine Engineers deal with the world's largest moving structures and most powerful vehicles – from huge ships to sailing yachts, from fast ferries to offshore wind turbines and oil platforms.

As a Naval Architecture student, you will learn to predict the stability and safety of ships, as well as their strength, speed, powering and propulsion requirements. You will discover how to calculate the motions of ships and other floating structures in rough seas, and how to estimate their reliability and safety in extreme conditions. All the courses offer the chance to take classes in specialist subjects such as Small Craft Design, Marine Engineering or Ocean Engineering.

The Department's extensive laboratory facilities include the Kelvin Hydrodynamics Laboratory which houses the largest university test tank in the UK and is equipped with state-of-the-art instrumentation for a variety of model tests in calm water and in waves; a testing base for marine thermodynamic-related projects; and a wave/towing tank suitable for a range of tests and fluid control experiments.

Careers

Naval architects are recognised as among the highest-paid specialist engineers, with a wide variety of positions and roles. There are many opportunities for careers working in the field and for world travel. In addition to engineering and technical activities, many of our graduates are involved in management and commerce. Indeed, many switch from one area to another as their interests evolve and new career opportunities arise.

There is a substantial range of opportunities in ship and offshore design and technical consultancy, ship safety, shipping, ship operation and management, as well as specialised areas of fast ships, shipbuilding and repair. Increasingly, graduates will play leading roles in the engineering of offshore renewable energy sources, including offshore wind, wave and tidal power. BP, Lloyd's Register, Babcock Marine, BVT Surface Fleet, Safety at Sea Ltd, SecTec, Noble Denton and Teekay Shipping are just a few examples of organisations who have recruited our graduates.

Course Structure

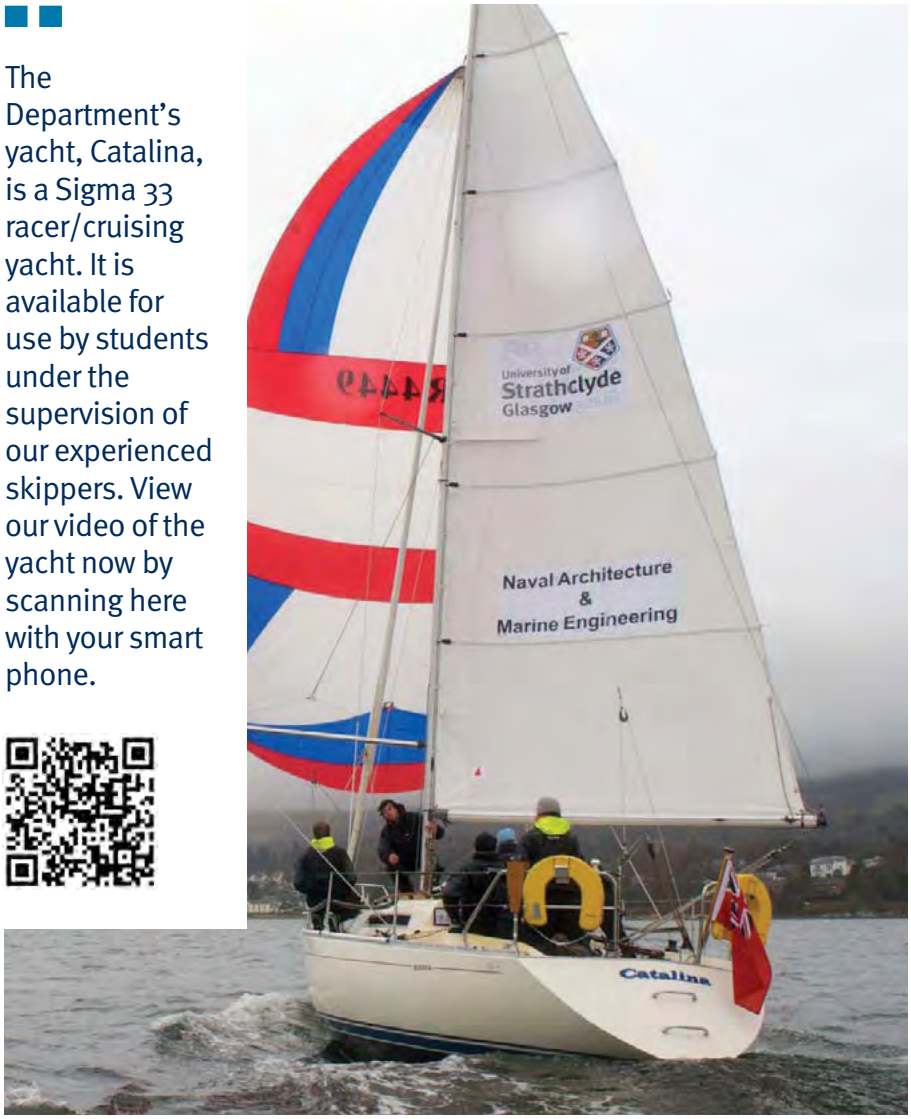
Our MEng/BEng courses have a common core on which the more specialised knowledge is built. All students in Years 1 and 2 follow this core so it is possible to change course if you wish. In the early years, you will study basic Engineering Science and the fundamentals of Naval Architecture, including buoyancy and floatation, stability, and ship types and terminology. As you progress through the course, you will study more specific Naval Architecture subjects, such as resistance and propulsion, ship structural analysis, ship design, marine engineering systems, as well as business and management subjects.

In the later years, you will study more advanced subjects, such as ship motions in waves, risk management and reliability, and classes related to your chosen specialist area. You will also take further business and management classes. Throughout the course, classes are complemented by design project work that you will carry out both individually and in small groups. There is also a specialised individual project on a subject which interests you.

Naval Architecture & Marine Engineering

www.strath.ac.uk/na-me

The Department's yacht, Catalina, is a Sigma 33 racer/cruising yacht. It is available for use by students under the supervision of our experienced skippers. View our video of the yacht now by scanning here with your smart phone.



MEng Naval Architecture
Naval Architecture is an engineering discipline concerned with the creative synthesis of science, engineering, technology and business subjects to design complex floating structures. Together, these factors are the key to the design, construction, operation and maintenance of all types of ships, boats and other fixed and floating marine structures. In addition to core Naval Architecture subjects, you will study a range of specialised techniques and technologies related to the design of novel ships and offshore structures. These include safety management, lightweight structures and design optimisation.

In a major group design project (comprising one third of your final year), you will undertake a detailed design of a complete ship or transport system.

MEng/BEng (Honours)
Naval Architecture & Marine Engineering
Marine Engineering is the engineering speciality which addresses the design, construction, installation and operation of machinery and propulsion systems for ships and marine structures. In addition to core Naval Architecture subjects, you will study a range of specialised Marine Engineering subjects such as control theory and practice, electrical systems, design of marine engines (diesel, diesel-electric and gas turbine), propeller and shafting systems, system design and simulation, green technology and fuel cell technology.

MEng/BEng (Honours)
Naval Architecture With Ocean Engineering
Ocean Engineering deals with the technical aspects of fixed and floating marine structures and systems related to harnessing ocean resources. These include offshore oil and gas and the rapidly-expanding area of ocean renewable energy, as well as other ocean resource activities such as subsea mining and aquaculture. In addition to core Naval Architecture subjects, you will study a range of specialised Ocean Engineering subjects and subjects related to the design of novel ships and offshore structures such as risk management and reliability analysis, station-keeping and control and subsea engineering.

MEng/BEng (Honours)
Naval Architecture With Small Craft Engineering
Small craft have developed dramatically in recent years. Lighter, faster, stronger and safer vehicles are being designed and built using advanced materials and technology combined with creative design engineering. This course creates designers with all the core skills of ship design, construction, operation, and maintenance, along with a particular specialisation in the creative design and engineering of small leisure and commercial vessels, including sailing and power yachts, fast ferries, hydrofoils, hovercraft and fishing boats.

Student profile

Pete Dow & Kim Travers

MEng Naval Architecture & Marine Engineering

MEng Naval Architecture with Ocean Engineering

Pete: For my summer placements I was lucky enough to work for major defence companies BAE Systems and Babcock, being involved in tasks supporting and designing submarines, warships and other naval vessels. Placements are great for putting into practice what you have been learning and also to expand your knowledge and skills base.

I was proud to win maritime student and overall student of the year for my fourth year individual project in the Science, Education and Technology awards. I was also awarded the Teekay Shipping Award and a joint departmental award from the Institute of Marine Engineering, Science & Technology & Alfa Laval. These awards reflect the high standard of teaching at Strathclyde.

Kim: A benefit of being a student in such a specialist department as Naval Architecture is the huge interest from the major companies and organisations and information on awards and scholarships is available. In addition, seminars and careers events provide opportunities to network with industry leaders and recruitment teams.

A highlight of my degree was the opportunity to spend a three-month placement in the second biggest shipyard in the world – Samsung Heavy Industries in South Korea. I learned a lot from this experience and the opportunity was made possible through the department's connections within the industry.

BSc (Honours)

Prosthetics & Orthotics

UCAS B984

Higher 1st sitting **AAAB**

Higher 2nd sitting **AAABB**

A Levels **ABB**

For full entry requirements, please see page 59.

Contacts
Sarah Deans or Christine McMonagle
t: +44 (0)141 548 3525
e: contact-prosthetics@strath.ac.uk

Prosthetics & Orthotics

This applied clinical engineering subject is taught in the University's National Centre for Prosthetics & Orthotics, which has custom-built premises on campus. The course is highly practical in nature and students undertake clinical practice in each academic year. Our students benefit from continuing links with national and international organisations.

Prosthetists and orthotists are important members of the rehabilitation team and apply biomechanics in a clinical environment through the provision of customised medical devices. Prosthetists are concerned with the replacement of a patient's limb following amputation. Orthotists create devices, which support a patient's body to compensate for paralysed muscles, provide relief from pain, or prevent orthopaedic deformities from progressing. The only way to join the profession of Prosthetists and Orthotists in the UK is by having an Honours degree in Prosthetics & Orthotics.

The BSc (Honours) degree takes four years. Our course is the only one in the world to offer the best students the chance to continue into a fifth year of study to complete an MSci in Prosthetics & Orthotics. Progression to the MSci is possible for third-year students with grades above 70%.

Course Structure
Prosthetics and Orthotics Science modules form a major element of the course and also of the practical sessions based at the National Centre or on clinical placements.
Year 1: An introduction to general prosthetic and orthotic management knowledge and skills is

followed by a detailed application of lower limb prosthetics at the level of trans-tibial, ankle disarticulation and partial foot amputations.
Year 2: The development of further application of knowledge in lower limb prosthetics at higher levels of lower limb absence and then a detailed study and application of all levels of lower limb orthotics.
Year 3: Spinal orthotics, upper limb orthotics and prosthetics at all levels. Clinical sessions focus on case studies and a holistic approach to treating all the patient needs as appropriate to their individual functional loss. This is followed by a four-month clinical practice education placement in an approved clinical facility in the UK or abroad.
Year 4: A further four-month clinical placement followed by a project and your choice from optional classes to enhance your prosthetics/orthotics knowledge and practical skills. Optional classes include: Wheelchairs & Seating, Upper Limb Prosthetics, Hip, Knee & Ankle Disarticulation Prosthetics, Lower Limb Prosthetic Design, Orthotic Management of Spinal Deformity, Orthotic Management of Neurological Conditions, Clinical Governance, Clinical Gait Analysis, Management of the Diabetic Foot, Paediatric Prosthetics.
Year 5 (MSci only): MSci students also undertake a Masters-level Prosthetics & Orthotics project.

Other core subjects are also taught throughout the first three years to complement the practical teaching and to provide a theoretical knowledge base. These are:

- Human Biological Sciences (Anatomy, Physiology and Pathology)
- Principles of Prosthetics and Orthotics Design (including Mechanics, Biomechanics, Engineering Applications and Design)
- Statistics
- Ethics and Research Methodology
- Professional Skills (including personal/interpersonal communication)
- Technical Skills (including workshop based practical knowledge and skills)
- Foundations of Practice in Health and Social Care, for inter-professional working

In practical sessions students cast/fit and align prosthetic/orthotic devices for patients.

Teaching and Assessment
Teaching methods include seminars, tutorials, laboratories and clinical practical sessions, some of which are web-based using a virtual learning environment. In the practical sessions, you work as part of small teams with patients to assess and prescribe devices for them. You then also manufacture and fit prosthetic/orthotic devices for these patients. The range of assessments includes essays, written and practical exams, problem-solving, multiple choice questions, critical appraisals, oral presentations and project work. Clinical work-based learning is assessed in a clinical setting.

Professional Registration
Strathclyde graduates of the BSc (Honours) in Prosthetics & Orthotics are eligible to apply for registration as a Prosthetist/Orthotist through the Health Professions Council (www.hpc-uk.org). Our graduates can also become members of the professional body in the UK – the British Association of Prosthetists and Orthotists (www.bapo.com). Graduates will also achieve Category 1 status certification from the International Society for Prosthetics and Orthotics (ISPO). This is the highest recognised accreditation in this field and only a few prosthetic and orthotic University programmes across the world have this international recognition.

Careers
Employment prospects for graduates are excellent. Many graduates work either in NHS facilities or for commercial companies contracted to the NHS for prosthetic/orthotic services. Employment opportunities exist throughout the UK.

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Architecture			
BSc (Honours) Architectural Studies	**Highers** 1st sitting: **AAAB** 2nd sitting: **AAAAB** **A Levels** Year 1 entry: **ABB** Year 2 entry: not offered **IB: 34** **HND** First year entry possible with HND **Interior Design** with **AA** in Graded Unit; second year entry not offered **Irish Leaving Certificate** Subjects and grades as for Highers	**English** Higher **(B)** or GCSE **English Language (A)** or **English Literature (A)** or IB **(HL5)** **Maths** or **Physics** Higher **(B)** or A Level **(B)** or IB **(HL5)** **Art** or **Art & Design** Higher **(B)** or AS Level **(B)**	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry accepted Candidates likely to fulfil the entry requirements will be asked to submit a portfolio and may be invited to interview; the portfolio should contain examples of a range of work providing evidence to indicate creative and artistic ability **Contact** Aileen Alexander (Undergraduate Admissions) **t:** +44 (0)141 548 3002 **e:** architecture@strath.ac.uk
Chemical Engineering			
MEng/BEng (Honours) Chemical Engineering	**Highers** 1st sitting: **AAAAB** 2nd sitting: **AAAABB** **A Levels** Year 1 entry: **AAA** Year 2 entry: **A*A*A** **IB: 36** **Irish Leaving Certificate** **AAABBB**	**Maths** Higher **(A)** or A Level **(A)** or IB **(HL6)** or ILC **(A)** **Chemistry** Higher **(B)** or A Level **(B)** or IB **(HL5)** or ILC **Physics** Higher **(B)** or A Level **(B)** or IB **(HL5)** or ILC Advanced Higher **Maths**, **Chemistry** and **Physics** recommended	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher, for example Advanced Higher B is counted as an A towards required grades. Both Advanced Highers and Highers are counted towards the grades required, even when you have both in a subject. **Deferred Entry** Deferred entry not accepted Please consult the responses to Frequently Asked Questions on our website at **www.strath.ac.uk/chemeng** **Contacts** Full-time Dr Iain Burns, Admissions Selector **t:** +44 (0)141 548 2837 **e:** chemeng-ug-admissions@strath.ac.uk Part-time Distance Learning Kenneth Moffat, Distance Learning Manager **t:** +44 (0)141 548 2399 **e:** chemeng-dl-admissions@strath.ac.uk
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.		

Course	Minimum Grades	Required Subjects	Additional Information
Civil Engineering			
MEng Civil Engineering Civil & Environmental Engineering	**Highers** 1st sitting: **AAAA** or **AABBB** 2nd sitting: **AAABB** or **AAAAC** **A Levels** Year 1 entry: **AAA** Year 2 entry: **A*AA** **IB: 36** **HNC/HND** HNC/HND offers entry to BEng in the first instance **Irish Leaving Certificate** **AAABB**	**Maths** and **Physics** (or **Technological Studies**) Higher (**AB**/**BA**) or A Level (**BB**) or IB (**HL5**) or ILC at Higher level in both subjects	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry accepted BEng students who do well may transfer to the MEng up to the end of the 3rd year **Contact** Dr Neil Ferguson **t:** +44 (0)141 548 3277 **e:** civeng-admissions@strath.ac.uk
BEng (Honours) Civil Engineering Civil & Environmental Engineering	**Highers** 1st sitting: **AAAB** or **AABBC** 2nd sitting: **AAAA** or **AABBB** **A Levels** Year 1 entry: **AAB** Year 2 entry: **A*AA** **IB: 32** **HNC/HND** First year entry possible with HNC **Civil Engineering, Structural Engineering or Construction Engineering** with **A** in Graded Unit and pass in **Maths for Construction**; second year entry possible with HND, subjects as for HNC, with **BA** in Graded Units and pass in **Maths for Construction** **Irish Leaving Certificate** **AAABB**		

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Design, Manufacture & Engineering Management			
MEng Product Design Engineering Production Engineering & Management Sports Engineering	**Highers** 1st sitting: **AAAA** or **AABBB** 2nd sitting: **AAAABB** **A Levels** Year 1 entry: **AAB** Year 2 entry: **A*AA** **IB: 36** **HNC/HND** HNC/HND offers entry to BEng in the first instance (check with Department regarding suitability of HNC) **Irish Leaving Certificate** **AAABB**	**PDE/PEM** **Maths** Higher **(B)** or A Level **(B)** or IB **(HL5)** or IL **Physics** or **Technological Studies** Higher **(B)** or A Level **(B)** or IB **(HL5)** or IL **Sports Engineering** **Maths** or **Physics** or **Technological Studies** Higher **(B)** or A Level **(B)** or IB **(HL5)** or IL **All courses** **Art & Design**, **Product Design** or **Graphic Communication** recommended at Higher, AS Level or IB (HL)	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry accepted ■ Applicants likely to be made an offer will be invited for interview between January and March ■ Transfer to MEng possible for students who do well on the BEng **Contact** Caroline McGuire **t:** +44 (0)141 548 2839 **e:** caroline.mcguire@strath.ac.uk
BEng (Honours) Product Design Engineering Production Engineering & Management	**Highers** 1st sitting: **AAAB** 2nd sitting: **AAABBB** **A Levels** Year 1 entry: **ABB** Year 2 entry: **A*AA** **IB: 34** **HNC/HND** First year entry possible with relevant HNC, **A** in Graded Unit; second year entry may be possible with relevant HND, **AAA** in Graded Units **Irish Leaving Certificate** **AAABB**	**Maths** Higher **(B)** or A Level **(B)** or IB **(HL5)** or IL **Physics** or **Technological Studies** Higher **(B)** or A Level **(B)** or IB **(HL5)** or IL **Art & Design**, **Product Design** or **Graphic Communication** recommended at Higher, AS Level or IB **(HL)**	
BSc (Honours) Product Design & Innovation **BEng (Honours)** Sports Engineering	**Highers** 1st sitting: **AAAB** 2nd sitting: **AAABBB** **A Levels** Year 1 entry: **ABB** Year 2 entry: **A*AA** **IB: 34** **HNC/HND** First year entry possible with relevant HNC, **A** in Graded Unit; second year entry may be possible with relevant HND, **AAA** in Graded Units **Irish Leaving Certificate** **AAABB**	**Maths** or **Physics** or **Technological Studies** Higher **(B)** or A Level **(B)** or IB **(HL5)** **Art & Design**, **Product Design** or **Graphic Communication** recommended at Higher, AS Level or IB **(HL)**	

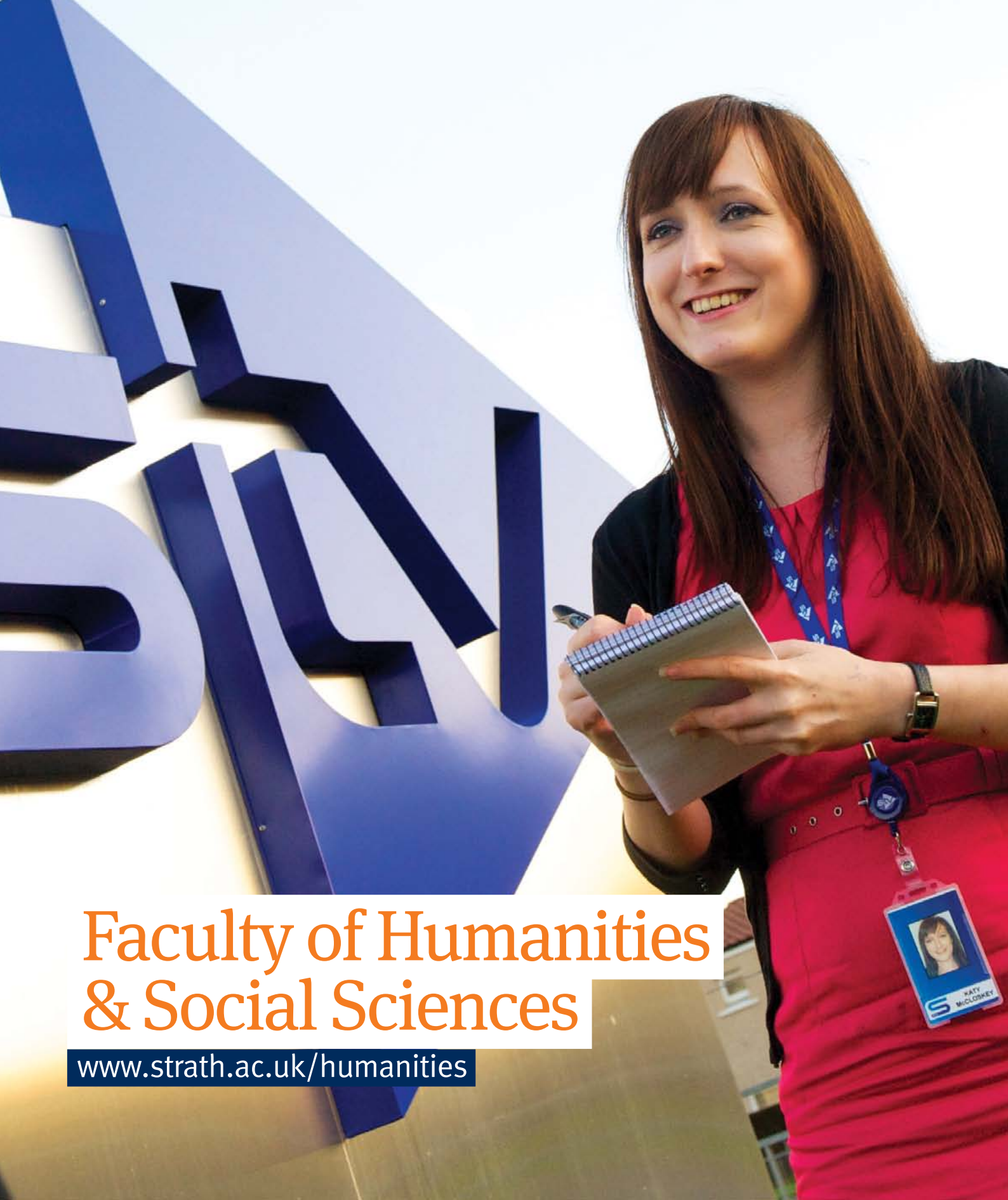
Course	Minimum Grades	Required Subjects	Additional Information
Electronic & Electrical Engineering			
MEng Electronic & Electrical Engineering with Business Studies/ International Study Electrical Energy Systems Electronic & Digital Systems Computer & Electronic Systems Electrical & Mechanical Engineering with International Study	**Highers** 1st sitting: **AAAAB** 2nd sitting: **AAAABB** **A Levels** (one sitting) Year 1 entry: **AAA** Year 2 entry: **A*AA** **IB: 36** **HNC/HND** Entry to BEng in first instance **Irish Leaving Certificate** **AAAABB**	**Highers** **Maths (A)** and **Physics** or **Technological Studies (B)** **A Levels/Adv Highers** Year 1 entry: **Maths** and **Physics** Year 2 entry: **Maths (A*)**, **Physics** and **Computing** **IB** **Maths** & **Physics (HL6)** **Irish Leaving Certificate** **Maths (A), Physics, English**	**Advanced Highers** An Advanced Higher is treated as if it was a Higher but with an improved grade (eg Adv Higher at B is treated as Higher at A). Where both Adv Higher and Higher are offered in the same subject, the better grade is used. **Deferred Entry** Deferred entry accepted ■ A Standard Grade or GCSE in the relevant language is highly recommended for applicants considering International Study ■ Applicants likely to be made an offer are invited for interview between November and March ■ BEng students who do well may transfer to the MEng **Contacts** Dougie Grant (Academic Selector) **t:** +44 (0)141 548 2097 **e:** d.grant@eee.strath.ac.uk Darren Rank (general enquiries) **t:** +44 (0)141 548 2625 **e:** darren.rank@eee.strath.ac.uk
BEng (Honours) Electronic & Electrical Engineering Computer & Electronic Systems Electrical & Mechanical Engineering	**Highers** 1st sitting: **AAAB** 2nd sitting: **AAAAB** **A Levels** (one sitting) Year 1 entry: **AAB** Year 2 entry: **AAA** **IB: 32** **HNC/HND** Year 1 entry: Possible with relevant HNC and **A** in Graded Unit 1 Year 2 entry: May be possible with relevant HND and **A** in Graded Units 1&2. Contact Academic Selector BEFORE applying for further details **Irish Leaving Certificate** **AAABBB**	**Highers** **Maths (A)** and **Physics** or **Technological Studies (B)** **A Levels/Advanced Highers** Year 1 entry: **Maths (A) and Physics (B)** Year 2 entry: **Maths, Physics and Computing** **IB** **Maths** and **Physics (HL6)** **Irish Leaving Certificate** **Maths (A), Physics, English**	

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Mechanical & Aerospace Engineering			
MEng Aero-Mechanical Engineering Mechanical Engineering Mechanical Engineering with: International Study Aeronautics Financial Management	**Highers** 1st sitting: **AAAAB** 2nd sitting: **AAAAAB** **A Levels** Year 1 entry: **AAA** Year 2 entry: **A*A*A** **IB: 36** **Irish Leaving Certificate** **AAAAB**	**Maths** Higher **(A)** or A Level **(A)** or IB **(HL6)** or ILC **(A)**; Advanced Higher **Maths** recommended **Physics** Higher **(A)** or A Level **(A)** or IB **(HL6)** or ILC **(A)**; Advanced Higher **Physics (A)** recommended	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry not accepted ■ Applicants likely to be made an offer are invited for interview between November and March ■ BEng students who do well may transfer to the MEng after any year **Contact** Dr Alex Galloway **t:** +44 (0)141 548 3492 **e:** alex.galloway@strath.ac.uk
BEng (Honours) Aero-Mechanical Engineering Mechanical Engineering Mechanical Engineering with International Study	**Highers** 1st sitting: **AAAB** 2nd sitting: **AAAAB** **A Levels** Year 1 entry: **AAB** Year 2 entry: **A*AA** **IB: 32** **Irish Leaving Certificate** **AAAB**	**Maths** Higher **(A)** or A Level **(A)** or IB **(HL5)** or ILC **(A)**; Advanced Higher **Maths** recommended **Physics** Higher **(A)** or A Level **(A)** or IB **(HL5)** or ILC **(A)**; Advanced Higher **Physics** recommended	
Naval Architecture & Marine Engineering			
MEng Naval Architecture Naval Architecture in combinations as for BEng (below)	**Highers** 1st sitting: **AAAA** 2nd sitting: **AAABB** **A Levels** Year 1 entry: **AAB** Year 2 entry: **AAA** **IB: 36** **HNC/HND** Entry to BEng in the first instance **Irish Leaving Certificate** Subjects and grades as for Highers	**Maths** Higher **(B)** or A Level **(B)** or IB **(HL5)** **Physics** or **Technological Studies** (strongly recommended) Higher **(B)** or A Level **(B)** or IB **(HL5)** Advanced Higher **Maths** recommended for all courses	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry accepted ■ Applicants likely to be made an offer will be invited for interview between November and March ■ BEng students who do well can transfer to the MEng **Contact** Dr Dimitris Konovessis **t:** +44 (0)141 548 3323 **e:** d.konovessis@strath.ac.uk
BEng (Honours) Naval Architecture & Marine Engineering Naval Architecture with Ocean Engineering Naval Architecture with Small Craft Engineering	**Highers** 1st sitting: **AAAB** 2nd sitting: **AABBB** **A Levels** Year 1 entry: **ABB** Year 2 entry: **AAB** **IB: 32** **HNC/HND** First year entry possible with relevant HNC, **B** in Graded Unit; second year entry may be possible with closely matching HND, **ABB** in Graded Units **Irish Leaving Certificate** Subjects and grades as for Highers		

Course	Minimum Grades	Required Subjects	Additional Information
Prosthetics & Orthotics			
BSc (Honours) Prosthetics & Orthotics	**Highers** 1st sitting: **AAAB** or **AABBB** 2nd sitting: **AAABB** **A Levels** Year 1 entry: **ABB** Year 2 entry: not offered **IB: 34** **HND** First year entry possible with HND **Engineering** including **B** in **Maths** for **Engineering** 2; second year entry not offered **Irish Leaving Certificate** **AAABB**	**Maths** Higher **(A)** or A Level **(A/B)** or IB **(HL6)** or ILC **(B)** **Physics** and **Biology** or **Human Biology** recommended Higher **(A/B)** or one **science** subject at A Level **(B)** or IB **(HL6)** or two sciences ILC **(B)**; AS Levels will be taken into consideration Advanced Higher **Maths**, **Physics** or **Biology** recommended	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry accepted ■ Applicants who are likely to be made an offer will be invited for an interview day between November and March ■ Students who do well may transfer from the BSc to MSci degree ■ 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; successful applicants will be required to apply to join the Protection of 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 **Contacts** Sarah Deans or Christine McMonagle **t:** +44 (0)141 548 3525 **e:** contact-prosthetics@strath.ac.uk



Faculty of Humanities & Social Sciences

www.strath.ac.uk/humanities

Katy McCloskey

BA (Honours) English and Journalism & Creative Writing

Community Editor, *STV Local, Glasgow*

Choosing to study at Strathclyde was the best decision I ever made. As a student of Journalism and English I really benefited from being taught by renowned academics with specialist knowledge in political communication, investigative journalism and language change.

The staff in the English department were always very supportive and encouraged me to think creatively and develop new skills in my writing, which built my confidence as a nervous student journalist. I also always relished the chance to debate, challenge and analyse theories alongside subject experts in classes across the faculty.

Beyond the academic side of university life, I was well known for volunteering in the Students' Association for many years and it was here that I gained many of the skills I've come to rely on in my work as a journalist. As Student President I learned how to speak in public, work in a team and importantly for a journalist – how to network and make contacts. I even travelled to Malawi to help develop student unions, which was an eye opening experience.

I definitely got the most out of my time at Strathclyde. It was a life-changing experience and I enjoyed it so much I didn't leave for nine years! Strathclyde prides itself as the place of useful learning and I'm sure that without my experiences and skills gained during my time there, I would never have landed my new job as a Community Editor for STV Local in Glasgow.

I definitely got the most out of my time at Strathclyde and it was a life-changing experience

Quick Guide

Below is a list of undergraduate courses offered in the Faculty of Humanities & Social Sciences

Page	Course	Degree	Highers	A Levels
64	Arts & Social Sciences	BA (Honours)	AAAB	ABB
65	English	BA (Honours)	AAAB	ABB
66	French	BA (Honours)	AAAB	ABB
67	History	BA (Honours)	AAAB	ABB
68	Italian	BA (Honours)	AAAB	ABB
69	Journalism & Creative Writing	BA (Honours)	AAAB	ABB
69	Law	BA (Honours)	AAAB	ABB
69	Politics	BA (Honours)	AAAB	ABB
71	Psychology	BA (Honours)	AAAB	ABB
72	Spanish	BA (Honours)	AAAB	ABB
74	Childhood Practice	BA	See entry requirements table p85	
75	Education & Social Services	BA	See entry requirements table p85	
76	Law	LLB (Honours)	AAAAB	AAB
78	Law with a Modern Language	LLB (Honours)	AAAAB	AAB
73	Primary Education	BA (Honours)	AAAB	ABB
80	Social Work	BA (Honours)	BBBB or BBBCC	BBB
81	Speech & Language Pathology	BSc (Honours)	AABB or BBBBB	ABB
82	Sport & Physical Activity	BSc (Honours)	BBBB or ABBC	BBC
74	Teaching, Joint Degrees with:			
	Chemistry	MChem	AABB or AAAC	ABB
	Mathematics	BSc (Honours)	ABBB or ABBCC	BBB
	Physics	BSc (Honours)	ABBB or BBBBB	BBB

Note: Grades above are for first-year entry. Second-year entry grades and other qualifications are listed on pages 84 - 87.
Entry Requirements current at time of publications. Please refer to Terms & Conditions, pg 160.

Humanities & Social Sciences

We aim to produce graduates with a better understanding of the challenges facing the world today, ensuring that they are capable of succeeding in an increasingly complex technological age, and doing so with a social conscience.

As a student in Faculty of Humanities & Social Sciences (HaSS), you will benefit from innovative courses designed to encourage student and staff interaction and collaboration across different subjects. We place an emphasis on modern writing, forward thinking and innovative, accessible teaching – and have a reputation for highly influential research within and across disciplinary boundaries. We offer a wide range of courses with awards leading to professional recognition and accreditation by the appropriate statutory bodies.

As one of Scotland's top law schools and Scotland's largest provider of teacher education the Faculty has significant expertise in developing the professional practice needed to equip modern societies at local, national and global levels. There is a strong and committed academic staff, many of whom, in addition to their teaching commitments, are engaged in research, development and consultancy work of national and international significance.

Consistently high ratings from students and external assessors are evidence of the quality of teaching. Teaching is informed by staff research, which means that intellectual challenge is accompanied by an emphasis on employability – helping you to develop the skills you need to make a success of your career.

We also emphasise the benefit to students of expanding their educational horizons through international experience, and there are opportunities to spend part of your study period abroad at a university in Europe or in North America. Across all our courses the intellectual challenges are accompanied by an emphasis on employability – on helping develop the skills and attributes needed to enjoy a successful career.

Degree Structure
The degree structure generally combines compulsory, optional and elective (free student choice) classes. Classes are credit-based, ie you receive credits for each class you pass. There are 120 credits each year in all undergraduate degree courses. Individual degrees are detailed in the course entries on the following pages. The academic year is divided into two teaching periods known as semesters. Many courses, primarily in education-related fields, include a placement element.

Protection of Vulnerable Groups Scheme
Please note that membership of the Protection of Vulnerable Groups Scheme is obligatory for entry to certain courses that require interaction with children or vulnerable adults. The procedure will be detailed during the application process.

From July 2012, the Faculty will be located in new accommodation on the University's city-centre campus, a few minutes from the railway stations and main shopping areas.

Key facts

Shaping the world
Our courses all have a contemporary focus, producing graduates with the skills to make an impact in the world. This is a forward-thinking Faculty whose students are a vital part of the changing face of humanities and social sciences

Teaching excellence
Our staff regularly achieve high scores in official external ratings and student feedback. Their approachability and friendliness have been highlighted in the most recent National Student Survey, and their teaching is based on a wide range of stimulating research.

Reputation
The Faculty includes one of Scotland's top law schools and is Scotland's largest provider of initial teacher education. It enjoys an excellent reputation in fields across the humanities and social sciences spectrum. Our research is highly influential, both in terms of the outside world and the learning environment our students enjoy.

Employability
Whatever your area of interest, our study programmes place an emphasis on developing the skills that help you make your mark in the future. Our courses are accredited by the relevant professional institutions where required. Our graduates perform above the benchmark for going on to employment and further education.

You can study abroad
The Faculty supports study and placement abroad, which can offer you a culturally rich experience while improving your employability. A number of courses across the Faculty engage in international exchange initiatives in countries such as the USA and New Zealand and in Europe via the Erasmus programme.

BA (Honours)

English
French
History
Italian
Journalism & Creative Writing
Law
Politics
Psychology
Spanish

Highers 1st sitting **AAAB**
Highers 2nd sitting **AAABB**
A Level **ABB**

For full entry requirements, please see table on page 84.

Contact
e: arts-admissions@strath.ac.uk

Arts & Social Sciences

The range of subjects you can study includes options from other Faculties in the University, offering you the chance to try subjects you may not have studied before.

With our flexible degree programmes, you choose a selection of basic classes to study in your first year. The wide range of subjects includes options from other Faculties in the University. This offers you the chance to try new subjects and may lead you to change your original choice of specialism at the end of first year. Only at the beginning of your second year do you need to decide which subjects to continue to study into Years 2 and 3. At the end of Year 3, you may graduate with the BA degree or apply to continue to single or joint Honours.

Note: You should enter only one of the UCAS codes for the BA in Arts & Social Sciences on your UCAS application form. Acceptance on one of these subject codes will enable you to study any combination of subjects on the BA degree. Please note that some subjects may be taken only in specified combinations (see our website for details).

Honours Courses
After completing the BA degree in Year 3, you may apply to continue to either Single or Joint Honours study. Joint Honours degrees combine two subjects, at least one of which must be taught by the Faculty of Humanities & Social Sciences. Requirements for entry to Honours will be explained to you at the start of the course. Modern Languages students spend one year abroad before entry to Honours.

Teaching and Assessment
Lectures and tutorials are the main methods of teaching. Others include student-led seminars, group projects, laboratories and fieldwork (where appropriate). Teaching in the Honours year is generally seminar-based with a strong emphasis on individual learning. Technology is used to assist teaching and learning: in addition to web-based teaching and e-learning, some classes use an electronic personal response system to enable student-staff interaction.

You can expect to develop the following skills, which are highly valued by employers, as part of your degree:

- confidence, self-expression, and debating skills developed through small-group teaching
- written and oral presentation skills and teamworking, developed through essays, seminars and group presentations
- self-reliance and problem-solving ability, developed through self-directed study in later yearsadvanced analytical and research skills, developed by Honours-level study
- job-search and self-presentation skills, developed through careers training by professional advisers

International Experience
Successful students have the opportunity to undertake part of their degree at a university in Europe or North America. A well-established system allows you to take classes at universities overseas which match the subjects you would otherwise take at Strathclyde. No time is lost in qualifying for your final degree and you will gain invaluable experience of life in another country.

Part-time study
You can also study for the BA degree on a part-time basis, with the option of transferring to the full-time course. This is a six-year (BA degree) or eight-year (Honours degree) daytime course. Mature students must satisfy the University's general entrance requirements, eg by undertaking the Faculty's Pre-entry Access Course (see page 149).

Note: Entry for part-time study is by direct application to the Faculty.

Length of Study
Full-time BA degree: 3 years
Full-time BA Honours degree: 4 years
Full-time BA Honours degree: 5 years (including a language)
Part-time BA degree: 6 years
Part-time BA Honours degree: 8 years

English

English helps us to make sense of a world overflowing with text – from blogs and emails to novels and plays. Reading adventurous, stimulating books is just the start of the journey; analysing them will teach you about people and society as well as literature and communication.

As a student at Strathclyde you get the best of old and new – a grounding in the classics and the chance to venture into exciting new fields of literature. You can explore your creativity, through a strong tradition of creative writing – our staff includes established and prize-winning novelists, poets and dramatists. Students like the fact we're approachable, and appreciate our exciting range of classes. All of our students find enthusiastic staff with a fresh approach and their learning experience is further boosted by Visiting Writing and Research Fellows. You will gain the skills necessary to succeed at university and beyond: how to express yourself well, to construct an argument, to analyse the written word. We also show you how exciting and wide-ranging study of English can be.

Course Structure

Our course structure combines core classes in Years 1 to 3 with options in Years 3 and 4.

Year 1: In this wide-ranging introduction to university-level English, your required reading ranges from ancient tales, to Shakespearean drama, to cutting-edge contemporary fiction.

Year 2: You study momentous events in literary history in the historical core classes on Renaissance, Enlightenment and Romantic writing. You also learn about the various ways in which philosophers, historians and authors have tried to analyse literature in a course on Literature, Criticism and Theory.

Year 3: You continue with historical core classes on Victorian and 20th-century Literature, and you also choose one further class (English with another subject) or three classes (single English). Our extensive menu of options at this level really sets us apart. Born from the passions of individual researchers, you could study anything from Shakespeare to experimental fiction, from children's literature

Arts & Social Sciences

to America in the 1920s, from autobiography to the Glasgow novel, from First World War literature to detective fiction.
Year 4: Throughout the degree, analytical and writing skills are being developed, preparing you to tackle the final-year dissertation. The dissertation is an excellent preparation for the project management you'll do one day in the working world. The choice of subject is wide open – we value student initiative and reward it when we see it. Fourth year is also your chance to take some more options – two for joint Honours and three for single Honours. The options on offer in Honours year include classes on Victorian Gothic writing, literary snobbery, 1930s literature and culture, travel writing, atrocity and modernism, oral narratives and fairytales.

Teaching and Assessment
A week on an English Studies class gets you thinking; a lecture introduces that week's topic and then you develop your own ideas in a workshop. Workshops range from free discussion to structured group activity and provide invaluable experience in teamwork and presentation. You can also use online technology to discuss books and ideas with other students and to communicate with staff. We use an assessment mixture of roughly 40% coursework and 60% exams, but this varies from class to class.

International Experience
Socrates exchange programmes have partner institutions in Germany and France, as well as programmes in North America and elsewhere. You can spend your third year (two semesters) abroad and obtain credits that qualify you to enter the Honours year in one or both of your principal subjects on your return. While priority on Socrates is given to students who have proficiency in the relevant language, many classes (at least in the host English departments) are conducted in English and there is no language requirement for countries like the USA.

Careers
Graduates are making a difference at every level of society and include STV journalist Heather Simpson, MSP Frank McAveety, Booker-shortlisted author Andrew O'Hagan and former head of the Scottish Arts Council James Boyle. Graduates have also progressed to careers in publishing, the media, local government, the civil service, teaching, the health service, leisure industry, voluntary sector, social services, retailing and many other areas.

The successes and the employment rate of our graduates show that employers like the skills you gain here: written and verbal communications, the analysis and discussion of ideas, and broad, creative thinking.

French

French is one of the key international languages and studying French opens up the rich and varied world of francophone culture. From literature to the cinema, from haute couture to haute cuisine, from engineering to science, the influence of France extends across the whole globe.

As a student of French at Strathclyde, you will have the chance to become a fluent linguist, engaging with another culture through the medium of its language. You may also choose to work abroad during, and perhaps after, your course. Languages are taught in a friendly atmosphere, in which every student receives the personal attention they need.

We place an emphasis on high-level professional skills, such as making presentations, writing reports, interpreting and translating into English, all of which will help prepare you for a wide range of careers.

French can also be studied within the BA (Honours) in International Business and Modern Languages offered by the Strathclyde Business School (see pg 146).

Course Structure
Year 1: There are two streams in Year 1 – one for students with Higher French or an equivalent qualification and another for those without. Students in both classes study contemporary French language and are introduced to aspects of French culture and society, which provides a solid foundation for further study in Year 2 and 3.
Years 2 & 3: You will continue to develop your reading, writing, speaking and listening skills. In the specialised cultural classes, Dealing with Difference (Year 2) and Freedom & Identity (Year 3), you will learn more about the history and politics of France and French-speaking countries through the critical study of specific texts and films.
Year 4: You will concentrate on the core language skills of translation, written and oral production in French and interpreting. Specialist cultural classes, which reflect the research expertise of staff in French, are currently offered in areas such as the Occupation and its portrayal in French film.

International Experience
Honours students are normally required to spend a full academic year in a French-speaking country. You have the choice of becoming an English-language teaching assistant in a French school, or gaining work experience in a professional environment. It is also possible to spend nine months as a student at a university in France. We currently have exchange agreements with the Universities of Dijon, Paris VIII and Angers. If you are studying two languages you may opt to spend your third year in one country with an additional year in the country of your other language before returning for your Honours year.

Teaching and Assessment
We value traditional face-to-face teaching (frequently involving native-speakers), and we are also committed to the use of technology, both in class (in the form of interactive lectures and digital language laboratories) and also through the use of a web-based virtual learning environment, streamed live French television and a range of audiovisual materials. These innovative approaches to learning and teaching complement the small-group teaching which will form the basis of your language-learning experience at Strathclyde. Assessment for these classes involves a mixture of coursework and final examination.

Careers
Strathclyde French graduates are currently working in a wide variety of environments around the world. Many are successful journalists, entrepreneurs, lawyers, engineers, education professionals, business executives, professional linguists, researchers, IT experts and civil servants. All language graduates have a range of transferable skills, which are greatly valued by employers. These include advanced spoken and written ability, competence in interpreting and/or translating and a high-level ability in other important communication skills.

History

Studying history – the story of humanity through the ages – develops your knowledge of the past, which is essential to an understanding of the present. In addition, studying history at Strathclyde provides excellent training in a range of vocationally and professionally-relevant areas, such as problem-solving, communication, research methods and interpretation. You will learn how to write and speak confidently about problems of historical interpretation from Scottish and International contexts.

Students are exposed to lecturers involved in high-caliber historical research and the staff pride themselves on the care and enthusiasm with which they approach the teaching of undergraduates.

Course Structure

Year 1: The basic class examines the origins and shaping of our modern world by introducing a wide range of themes – from the drama of war and revolution to more peaceful forms of historical change.

Year 2: You can choose from an extensive range of national History classes, most of which cover a period of a century or more. Topics on offer may include: Scotland 1715-1832; Modern Europe; The United States of America 1877-1990; Disease and Society; Science, Technology and the Modern World; Aristocracy to Democracy? Britain 1815-1918; 16th-century Europe, Cultural History of the British Empire

Year 3: If you intend to proceed to Honours you must take the class in Historiography and Research Methods. Depending on your choice of Principal subjects, you can choose a number of History classes from a wide variety. Classes are thematic and may include: Slavery; Labour and Industrial Relations; Scottish Society since 1914; Empires and India; British Foreign Policy since 1914; Propaganda and War in the 20th Century; Dangerous Drugs and Magic Bullets; Cold War Europe 1945-1991; 'Bombers and Mash': The British Home Front in World War Two; Women and the Family in Early Modern Scotland and Europe; Irish Society 1700-1960; The Covenanters and the British Civil Wars; Jacobitism; Communism in Practice.

Year 4: As an Honours student, you complete a dissertation on a topic of your choice.

Arts & Social Sciences

You may also take further classes from the third-year range (subject to additional assessed work) and choose one of the special subjects on offer. These include: 20th-century Czechoslovakia; Imperialism, Politics and Society in Britain; 1707 in a British and European Context; Rule Britannia: Victorian England; The Scramble for the Middle East; Social History of Work; Scandals and Ethics: The History of Pharmacy and Pharmaceuticals.

Careers
The knowledge and skills acquired on a History degree make graduates excellent candidates for management and other professions where analytical abilities are paramount. Employers will be particularly interested in your ability to accumulate, select, organise, synthesise and interpret a wide range of material and use it in a logical and coherent way.

History graduates enter careers throughout the public and private sectors. Among the wide range of possibilities are professional and managerial positions in banking and financial services, the civil service and government, education, industry, journalism, public relations, retailing, the media, entertainment, culture and leisure.

Italian

The study of Italian Language and Culture will open your eyes to the achievements of one of the world's greatest civilisations. Italy is famous, among other things, for art and architecture, engineers, scientists and poets, for its films, fashion houses, footballers and food. You can study all of these and more at Strathclyde. As a student of Italian you will achieve a mastery of the written and spoken language, have the stimulating challenge of engaging with another culture through the medium of its language, and the opportunity to work or study in Italy during your course. Languages are taught in a friendly atmosphere, in which each student receives the personal attention he or she needs.

We place an emphasis on high-level professional and transferable skills, such as making presentations, writing reports, interpreting and translating, all of which will help to prepare students for a wide range of future careers.

Italian can also be studied within the BA (Honours) in International Business and Modern Languages offered by the Strathclyde Business School (see pg 146).

Course Structure
Year 1: There are two streams in first year – one for students with previous knowledge of Italian, and another for beginners. Students in both classes study contemporary Italian language, cinema, literature and society, providing solid foundations for more in-depth specialisation in Years 2 and 3.
Years 2, 3: You will develop your skills across reading, writing, speaking and listening. In the specialised cultural classes you will have the opportunity to study key areas such as: the Renaissance, 20th-century history and politics, opera, cinema and literature. Students who opt to study Italian at Honours level normally spend nine months in Italy between years 3 and 4.
Year 4: At this advanced level you will perfect your knowledge of Italian by taking courses in translation, writing and interpreting. Specialist cultural classes, which reflect the research expertise of staff in Italian, are currently offered in: the Resistance movement, terrorism, and celebrity culture in the 19th century.

International Experience
Honours students are normally required to spend a full academic year in Italy, in one of three ways. You may apply to work as an English language teaching assistant in an Italian high school, or you may opt to gain work experience in a professional environment. It is also possible to spend nine months as an exchange student at an Italian university. We currently have Socrates agreements with the Universities of Milan, Verona and Padua.

If you study two languages, you may opt to spend your third year in one country and a further year in the country of your other language, before returning to Strathclyde for your Honours year.

Teaching and Assessment
We value traditional face-to-face teaching (frequently involving the use of native-speakers), and we are also committed to the use of technology, using computer-assisted learning, a web-based virtual learning environment, Italian television and a range of audiovisual materials. These innovative approaches to learning and teaching complement the lectures and the small-group teaching. Assessment for these classes involves a mixture of coursework and final examination.

Careers
Strathclyde Italian graduates are currently working in a wide variety of environments around the world. Many of our former students are successful journalists, entrepreneurs, lawyers, engineers, education professionals, business executives, professional linguists, researchers, IT experts and civil servants. Language graduates have a variety of transferable skills which are of great value to potential employers. These include advanced spoken and written ability, competence in interpreting and/or translating, and a high-level ability in a range of other important communication skills.

Journalism & Creative Writing

From the latest 'kiss and tell' story on a tabloid front page, to the war in Afghanistan – journalism informs our view of the world, and shapes our decisions. Journalists tell stories, as do creative writers. At Strathclyde, we offer the opportunity to combine both journalism and creative writing in one degree programme taught by internationally-recognised writers, academics and experienced journalists.

Course Structure
Year 1: You will study key concepts in creative writing such as narrative structure, and learn to apply these concepts in practical writing workshops. You will be introduced to core concepts in journalism studies, such as objectivity and news values, and explore the connection between journalism and creative writing.
Year 2: You will take practical workshops in journalism and creative writing, and study the cultural and technological context of communication. You will explore the structure of media institutions and develop an awareness of writing techniques common to journalists and creative writers.
Year 3: You will further develop your skills in such areas as short story writing, and features journalism. You will also study research techniques for writers and journalists.
Year 4: As an Honours student you will continue to be able to combine journalism and creative

writing study and prepare a substantial portfolio of work during the course of the year. You will also have the opportunity to take advanced Honours taught classes in journalism and creative writing, and a research-based dissertation or special project on a relevant topic.

Careers
Our graduates have won awards for student journalism and gone on to succeed at national newspapers, in the regional press and as published authors. The ability to communicate well, combined with an understanding of the media is sought by a variety of employers, including public relations firms, publishing houses, advertisers and marketing departments.

Law

At Strathclyde, you can study Law as part of a broad liberal education, as a subject in the BA Arts & Social Sciences, in combination with another subject. Equally, you can study Law as a vocational subject in preparation for admission to the legal profession (see pg 76 for LLB course description).

Course Structure
Year 1: The first year class, Introduction to Law and Legal Obligations, introduces you to the laws of contract and delict, which are the essential building blocks of most other areas of law, to the court systems and judicial decision-making, and to the law-making process in the UK.
Years 2, 3 & 4: You select classes according to your interests from a wide range of options including Human Rights, Environmental Law, Criminal Law, Public International Law, and Law, Film and Popular Culture.

Careers
BA graduates who have specialised in Law and another discipline find openings in central and local government services, commerce and industry, banking and insurance, management and administration, university teaching and overseas appointments. Note: To practice Law requires an LLB degree.

Politics

From the 'war on terror' to housing policy in Glasgow, politics is a broad discipline encompassing truly diverse issues. As a Politics student, you will analyse the work of governments and policies, and study the behaviour of those who govern and are governed, both at home and abroad. Students of politics are well equipped to understand the world they live and work in, and can choose from a huge array of career opportunities.

Course Structure
Year 1: Introduces the key themes of politics and investigates the behaviour of both politicians and citizens through the study of institutions and concepts. You will also look at the bigger picture: the EU, the global dimension of politics, and conflict and cooperation between states.
Years 2: The second year is organised around three core classes (Modern Political Thought, International Relations and Global Politics and Contemporary British Governance). Building on Year 1, these classes will equip you with the basic toolkit required to analyse political ideas and behaviour and provide firm foundations for more specialist study in Years 3 and 4.
Year 3: Students wishing to proceed to politics in Year 4 are required to take Research Methods for Political Scientists but also have the opportunity to advance their study of politics by choosing from a wide range of options. The many optional classes such as American Politics, European Politics, Chinese Politics, Local Politics, Politics of European Integration, Scottish Politics, Quantitative Methods in Social Research, and War, Terrorism and Conflict reflect the research interests of academic staff, and cover a broad range of international and domestic political agendas.
Year 4: A diverse selection of Honours classes covers Britain, the EU, and the international arena, and specific areas such as International Security, Green Politics, Feminism and Politics, Transforming Democracies, Political Parties, Analysing Religion and Politics, and Political Behaviour. Many of the classes focus on highly topical issues: for example, the

Student profile

Darren Cunningham

Year 4 BA (Honours) Psychology

Strathclyde was my first choice because of its central location, which made it really easy to split my work and social life. In addition, the University offers a really flexible choice of courses that I could combine as I progressed. I had thought I would like to study international politics but instead I'm hoping to become a clinical psychologist.

In my final year I took on the role of President of the Psychology Society. It was quite hectic and stressful at times, but I met many people I wouldn't otherwise have got to know and made some useful contacts within a number of charities.

My course has made me more confident about graduating. I am also better at time management and have become much more career-focused. It's important to keep up-to-date with the work but you should also take as many opportunities as you can to see your friends.

Arts & Social Sciences

class Difference and Democracy allows you to debate key questions about identity and multiculturalism.

Teaching and Assessment
Lectures are used to highlight key issues and debates, which you then explore further through discussion in tutorials and online debates and chat via our virtual learning environment. Each class is assessed by a combination of coursework and an exam, designed to evaluate a range of skills.

Careers
The choice of a politics degree opens up an extensive range of career options. Politics graduates are employed in management, teaching, the media, sales and advertising, local government, further and higher education and social work. Knowledge of the political process is also useful in a business career and the degree provides the normal route of entry into business traineeships. Employers are particularly interested in the high-level written and verbal skills of Politics graduates and their ability to research and analyse information.

Courses in Politics are recognised in the training of Modern Studies teachers, and a Politics degree is also particularly appropriate for entry to the civil service. Students who specialise in research methods acquire social science research skills and expertise in the analysis of data, while the study of institutions is an extremely good background for those entering government service or communications, eg journalism, television and advertising. There is also a tradition of Strathclyde Politics graduates entering academic research careers in the UK, Europe and North America.

Psychology

Psychology is principally concerned with the study of human behaviour. Psychological research is motivated by the desire to understand both the generalities of behaviour (how we learn, remember, coordinate our actions and interact with others) and the reasons for differences between individuals such as personality or intelligence. Due to the popularity and performance criteria for entry into Honours (Year 4) the numbers admitted to Years 2 and 3 of the course are limited.

Accreditation
The BA with single Honours in Psychology programme is accredited as conferring eligibility for the Graduate Basis for Chartered Membership with the British Psychological Society, our discipline's professional body, if the minimum standard of qualification of second-class Honours is achieved. This is the first step towards becoming a Chartered Psychologist.

Note: The joint Honours degree is not accredited for the Graduate Basis for Chartered Membership by the British Psychological Society. Prospective students who wish to be eligible for the Graduate Basis for Chartered Membership must take the single Honours degree.

Course Structure
Year 1: A broad and self-contained introduction covers the basic principles of learning, biological bases of behaviour, thinking, memory, personality, social influences on behaviour (Social Psychology), and changes in behaviour throughout the lifespan (Developmental Psychology).
Years 2 & 3: The range of classes provides a greater understanding of human development and interaction, cognitive processes, individual differences and biological influences on behaviour. An experimental approach is common to all classes and research and statistical methods are studied in their own right.
Year 4: A variety of optional classes is offered, in which you study an area of psychology in greater depth. You will also study conceptual and historical issues in psychology and submit a dissertation based upon your own research project.

Assessment
Assessment is by a combination of essays, practical reports, presentations, class tests and written exams. The course also includes group project work which takes place online and in face-to-face sessions to enhance problem-based learning. There are practical assignments from Year 1 onwards.

Careers
Psychology graduates can continue their studies to become professional psychologists and pursue careers in such areas as clinical, educational, occupational psychology, or in research. Among the range of other possible careers are teaching, human resource management, careers guidance, social work, market research, recruitment consultancy, counselling, management and professional positions throughout the private and public sectors. Employers will be particularly interested in your ability to gather, evaluate and communicate complex ideas, to analyse and interpret quantitative data, and to apply psychological knowledge in professional contexts: all skills that the study of psychology will help you to develop.

Spanish

Spanish is the third most spoken language in the world, with more than 330 million native speakers in over 20 countries, including more than 40 million speakers in the USA. By studying Spanish, you will learn about some of the most vibrant and exciting cultural developments of the 20th and 21st centuries, from Latin American winners of the Nobel Prize for Literature, to the groundbreaking films of contemporary Spanish directors. As a student in Spanish at Strathclyde, you will have the stimulating challenge of engaging with other cultures through the medium of their language, and the opportunity to work or study in Spain or Latin America. Languages are taught in a friendly atmosphere where every student receives the personal attention they need.

We place an emphasis on high-level professional and transferable skills, such as making presentations, writing reports, interpreting and translating, all of which will help to prepare students for a wide range of careers. Spanish can also be studied within the BA (Honours) in International Business and Modern Languages offered by the Strathclyde Business School (see pg 146).

Course Structure
Year 1: There are two streams in Year 1 – one for students with Higher Spanish or an equivalent qualification and another for those without. Students in both classes study contemporary Spanish language, culture and society in Spanish-speaking countries, providing solid foundations for more in-depth specialisation in Year 2 and 3.
Year 2: You will consolidate and develop your skills across reading, writing, speaking and listening. In our specialised cultural studies

Arts & Social Sciences

class, Isolation and Independence in Spain and Latin America, you will learn more about the historical, political and literary context in Spain and other Spanish-speaking countries through the critical study of specific texts and films.
Year 3: You will continue to develop your reading, writing, listening and speaking skills through an emphasis on summary techniques, report writing, oral presentations and translation into English. Our cultural studies class, The Struggle for Modernity in Spain and Latin America, will further expand your knowledge and critical understanding of the Spanish-speaking world through the examination and debate of key aspects of the concept of modernity.
Year 4: At this advanced level our language classes place an emphasis on high-level professional skills, such as delivering presentations, writing reports, interpreting between Spanish and English, and translating into English, all of which will help prepare you for a wide range of careers. Our specialist cultural classes, which reflect the research expertise of staff, will give you a more theoretical and analytical insight into the culture of Spain and Latin America.

International Experience
Honours students are normally required to spend a full academic year in a Spanish-speaking country. You have the choice of becoming an English-language teaching assistant in a secondary school or gaining work experience in a professional environment. It is also possible to spend nine months as an exchange student at a Spanish university. We currently have Socrates agreements with the Universities of Valencia and Zaragoza.

If you are studying two languages you may opt to spend your third year in one country with an additional year in the country of your other language before returning for your Honours year.

Teaching and Assessment
We value traditional face-to-face teaching and we are also committed to the use of technology, using computer-assisted learning, a web-based learning environment, Spanish television and a range of audiovisual materials. These innovative approaches to learning and teaching complement the lectures and the small-group teaching. Assessment for these classes involves a mixture of coursework and final examination.

Careers
Recent graduates in Spanish are currently working in a variety of environments around the world. Many of our former students are successful journalists, entrepreneurs, lawyers, engineers, education professionals, business executives, professional linguists, researchers, IT experts and civil servants. Languages graduates are also highly sought-after as interpreters and/or translators. Language graduates have a range of transferable skills which are of great value to employers. These include advanced spoken and written ability, competence in interpreting and/or translating, and a high-level ability in a range of other important communication skills.

Education

www.strath.ac.uk/humanities/schoolofeducation

BA (Honours)

Primary Education

UCAS contact us

Highers 1st sitting **AAAB**

Highers 2nd sitting **AAABB**

A Levels **ABB**

Teaching Degrees with Science

Chemistry with Teaching

UCAS F1XC

Highers **AABB**

A Levels **ABB**

Mathematics with Teaching

UCAS G1XC

Highers 1st sitting **ABBB**

Highers 2nd sitting **AABB**

A Levels **BBB**

Physics with Teaching

UCASF3XC

Highers 1st sitting **ABBB**

A Levels **BBB**

Childhood Practice
Education & Social Services
see entry requirements table.

For full entry requirements, please see table on page 85.

Contacts

Primary Education
e: hass-courses-edu@strath.ac.uk

Teaching Degrees with Science
e: paul.chambers@strath.ac.uk

Childhood Practice (part-time)
e: hass-courses-edu@strath.ac.uk

Education & Social Services
e: hass-courses-apss@strath.ac.uk

The School of Education is the largest provider of professional education courses for teachers and other childhood practitioners in Scotland and among the largest in Europe.

Initial teacher education is provided by two main routes, the Professional Graduate Diploma in Education for both intending Pre-school/Primary teachers and Secondary teachers and the undergraduate Honours degree in Primary Education. The School also provides BA degree programmes in Childhood Practice and in Educational & Social Services. In addition we offer a comprehensive programme of postgraduate instructional courses at Masters level.

Primary Education

We equip graduates with the skills needed to meet all the demands of the ever-evolving teaching profession. In order to do this, students are taught by staff who undertake rigorous and innovative educational research. This, in turn, feeds back into imaginative approaches to teaching and learning.

Taking into account Graham Donaldson's Review of Teacher Education in Scotland, commissioned by the Scottish Government, the programme is currently being revised to ensure that Primary Education students meet the demands of Teaching Scotland's Future. Strathclyde has a reputation for being 'the place of useful learning', and our ability to respond to Government recommendations in a proactive manner is testimony to this. The revised Primary Education degree at Strathclyde will be innovative in order to ensure our graduates continue to demonstrate excellence both academically and professionally.

Our students and external examiners testify that our programmes are of the highest quality. We are building ever stronger links with our partners in schools and local authorities with opportunities that allow us to offer high quality professional education at both undergraduate and postgraduate level.

Education

We recognise that teachers' learning does not stop when they have their undergraduate degree and we work to make links for students beyond their fourth year, into their induction year and beyond, offering a wide range of accredited courses.

To ensure that you have up-to-date information regarding the revised course and to learn more about life as a student of Education, please visit our web page at **www.strath.ac.uk/bed**

Teaching Degrees with Science

These degrees integrate Chemistry, Mathematics or Physics with teaching methods and practice to prepare you to teach your chosen subject in secondary schools. You will cover the core syllabus of the relevant BSc (Honours) or MChem degree, plus the curriculum and classroom experience required for General Teaching Council recognition.

Course Structure

Mchem Chemistry with Teaching

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). The final year is back with Chemistry where the research project will incorporate educational approaches to chemistry.

Mathematics or Physics with Teaching

Years 1& 2: In the first two years 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: In the final year, more emphasis is given to teaching and the second semester is devoted to educational-based issues and placement experience.

Note: Entry to the teaching profession requires membership of the Protection of Vulnerable Groups Scheme. The procedure will be detailed during the application process. Applicants must also pass a medical examination and are interviewed before starting the course.

Chemistry with Teaching
(in collaboration with the Department of Pure & Applied Chemistry)
See pg 100 for course description and pg 113 for Entry Requirements.

Mathematics with Teaching
(in collaboration with the Department of Mathematics & Statistics)
See pg 105 for course description and pg 115 for Entry Requirements.

Physics with Teaching
(in collaboration with the Department of Physics)
See pg 110 for course description and pg 117 for Entry Requirements.

Childhood Practice (Part-Time)

This innovative part-time course is available to early years and childcare workers in a wide range of settings across Scotland and is intended to build on your existing knowledge and skills in Childhood Practice. You will have the opportunity to bring your professional experiences to the course and to take what you learn here into the workplace. A substantial part of the course focuses on management theory and practice.

Course Description

This is a part-time course and modules are delivered through lectures, tutorials, collaborative group work and independent study tasks. The course is offered part-time only and students are required to attend one evening per week with occasional Saturday attendance over a four-year period.

The course 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 (2007):

- Professional Values and Personal Commitment
- Professional Knowledge and Understanding
- Professional Skills and Abilities

Level 8 Credits

Compulsory classes provide the sound theoretical knowledge underpinning the issues for children aged from birth to 16 years, as well as generic subjects such as research and ethics related to children.

Optional classes currently include: The Critical Years 0-3; Creativity; Music & Dance; Languages & Learning.

Paths: University of Strathclyde; FE college partners; HNC plus RPL (recognition of prior informal learning), or other relevant qualifications which are accepted by the Scottish Social Services Council as practitioner qualifications. Accelerated entry to level 9 can be offered for candidates who have additional qualifications leveled at SCQF 8.

Careers

The BA in Childhood Practice aims to meet the developing professional needs of the Early Years and Childcare Workforce. The Scottish Government has made this area of study a national priority by calling for a dramatic increase in the number of qualified Childhood Practice managers. By the time you graduate from this course, you will have gained the confidence and understanding to put your professional expertise into practice and gain promotion or a challenging and exciting career change.

Education & Social Sciences

This innovative degree is a collaborative venture between the University of Strathclyde and three further education colleges (James Watt, Langside and Motherwell). The degree aims to prepare graduates for working in settings which integrate health education and social work/social care. You will enter College at Diploma of Higher Education level, having first studied a relevant HNC, then go on to study Year 3 for the BA at Strathclyde.

The BA Education & Social Services responds to the Scottish Government's aspiration for different services to communicate more effectively and to work in a more integrated way to meet the service-user needs of children, young people and adults. A major aim of the degree is to develop the leadership qualities and skills required for this challenge.

Course Structure
You will study six classes, including one option during your year at Strathclyde.

The five main strands of study are:

- Professional and Personal Development
- Contexts and Policy
- Integration of Services
- Understanding and Meeting Needs
- Understanding and Developing Practice (Workplace Practice)

Each of the following classes is compulsory in Year 3 and builds on those studied during the Diploma:

- Management and Leadership in Integrated Services
- Contexts, Policy and Joint Working
- Option Module
- Understanding How People Behave
- Workplace Learning and Practice 2
- Reflective Practitioner

Teaching and Assessment
Faculty-based learning is combined with a six-week work placement with private, public or voluntary sector agencies. Assessment has been designed to provide evidence of personal and professional development and some assessments require practical application in the workplace. Forms of assessment include: seminar presentation, investigative reports, case studies, preparation of resources, reflective diaries and profiling essays. You will mainly be assessed individually, but there will also be group-based assessments, allowing you to benefit from shared experiences.

Careers
Our graduates are well-equipped to work within, and eventually lead, integrated services across the education, health and social care sector. The degree also confers eligibility to apply for postgraduate training in areas such as social work, community education, childhood practice and primary teaching.

Law

LLB (Honours)

Law

UCAS M114

LLB (Scots)

Law with a Modern Language

Law with French

UCAS M1R1

Law with Italian

UCAS M1R3

Law with Spanish

UCAS M1R4

Highers 1st sitting **AAAABB**

Highers 2nd sitting **AAABBBB**

A Levels **AAB**

For full entry requirements, please see table on page 86.

Contact
Courses Support Team
e: hass-courses-lgpp@strath.ac.uk

The Law School at Strathclyde is one of Scotland's leading providers of legal education. Renowned for its excellence in teaching and research, it is a vibrant and challenging yet friendly environment within which to study. All our LLB degrees are accredited by the Law Society of Scotland.

The Law School's reputation for innovative teaching and research are particular strengths, and its expertise extends beyond the traditional core subjects essential for entry to the legal profession into construction law, criminology, human rights law, information technology and telecommunications law, mediation studies and international economic law. The Law School is home to Scotland's first student-run law clinic, which offers a unique, real-world learning environment, and to Ardcalloch, a virtual community where the legal issues of everyday life are played out.

Law concerns the obligations, duties and rights of every member of society in relation to their neighbours and to society. As a subject for study at university, it is concerned with the obligations which individuals owe to each other, whether these are taken on voluntarily (eg under the law of contract) or are imposed by law (as under criminal law).

At Strathclyde, you can study Law as a vocational subject in preparation for admission to the legal profession (the LLB). Equally, it is possible to study Law as part of a broad liberal education, as a Principal Subject in the BA (Honours) degree, in conjunction with another subject offered by the Faculty of Humanities & Social Sciences (see pg 69 for Law course description).

LLB (Honours) Law

The Law School offers a full-time LLB degree in Scots Law. A typical four-year LLB (Honours) curriculum covers many subjects – from the basic sources of law and the way in which they are used, to analysis of the major issues facing a particular area of law at any given time.

Course Structure

As well as core Law classes taken by all LLB students, there is fairly wide scope to take optional Law classes in third year. Students on the LLB Law with a Modern Language degree programme follow intensive courses in their chosen language for the majority of their elective slots.

The following curriculum is a typical course of study for a full-time student, incorporating some compulsory classes and others that enable graduates to gain full exemption from the Law Society of Scotland's professional examinations. Please note that some classes may be subject to change.

Year 1: Criminal Law, Legal Methods, Legal Process, Law and Society, Public Law 1 and Voluntary Obligations: Contract and Promises.
Year 2: Commercial Law, Domestic Relations, EU Law, Property Trusts & Succession, and Involuntary Obligations: Delict and Unjustified Enrichment.
Year 3: Evidence, and five Law options. In recent years, options have included: Clinical Legal Practice; Competition Law; Computer, Society and the Law; Crime and Punishment; Environmental Law; Financial Services Law; Forensic Medicine and Science; Housing Law; Human Rights; International Private Law; Labour Law; Law of Banking and Finance; Law, Film and Popular Culture; Legal Theory; Local Government Law; Planning Law; Public International Law; Roman Law of Property and Obligations; Discrimination Law; and various others.
Year 4: You take four Honours subjects and submit a dissertation. There are no formal lectures in the Honours year; instead there are seminars for which it is essential to prepare in advance.

Law Clinic
The Law Clinic at Strathclyde is unique in Scotland in that it is run by students for members of the public who cannot afford a lawyer and are not eligible for legal aid. Over 100 of our students are now involved and regularly represent clients in Small Claims and Sheriff Courts. Students admitted to membership of the University of Strathclyde Law Clinic are able to follow a course of study oriented around their involvement in the Clinic. In addition to undergoing basic training in legal skills, such as interviewing, negotiation and advocacy and (in the Clinical Legal Practice course) reflecting on experiences and on the ethics and justice of legal practice, assessment in relevant courses such as Employment Law and Housing Law will be partly on the basis of students' handling of cases.

Teaching and Assessment
Teaching takes place in traditional formats such as lectures, tutorials and seminars. In addition, the Law School uses innovative teaching and assessment methods as much as possible, such as the Law Clinic experience described above.

In Domestic Relations and Evidence, lectures are delivered by webcasts, which can be viewed at any time; and Social Security Law is assessed by students presenting a case. The Law School has a particular interest in innovative methods of teaching and assessment, which allow our students to acquire and demonstrate a wide variety of skills. Students from all years can participate in various mooting competitions and Strathclyde has impressive success rate in these. They have included Internal Moot, culminating in a final in the High Court in Glasgow presided over by a Law Lord; a Glasgow-Strathclyde mooting competition; and the Jessup International Competition. Strathclyde students have also competed successfully in national and international mediation competitions.

International Experience
LLB students can study abroad at one of our partner Law Schools in Toronto, Maastricht and Copenhagen and earn credits towards their degree.

LLB (Clinical)
The School has launched a Clinical LLB programme in which work undertaken in the law clinic will be rendered credit bearing in appropriate classes where students will be asked to reflect on actual cases handled. At any time after completion of the first-year compulsory class Legal Methods (Clinical), students may transfer to the LLB (Clinical) with Honours, subject to satisfying the appropriate progress requirements.

Part-Time LLB
It is also possible to study for the LLB on a part-time basis. This normally takes six years (five for graduate entrants). Mature students who hold a recent first degree in a relevant discipline, or otherwise satisfy the University's general entrance requirements, are eligible to apply. Entry to the part-time LLB is by online application to the Law School (link to course page via **www.strath.ac.uk/humanities/courses/ug**)

Graduate Entry LLB
The Law School also offers the opportunity for graduates from other disciplines to undertake an accelerated two-year LLB degree programme. This is, essentially, a three-year LLB degree condensed into two years and includes the qualifying subjects dictated by the Law Society. In Year 1, students undertake Legal Methods, Domestic Relations, Criminal Law, Law and Society, Voluntary Obligations, Legal Process and Public Law. Year 2 (final year) comprises Tax, Commercial Law, Property, Trusts and Succession, EU Law, Evidence, Conveyancing, and Involuntary Obligations. To make up enough credits to gain the LLB, students also choose elective classes. The timetable permits this in the second semester of Year 1 and the first semester of Year 2. A minimum of one elective class is required to gain sufficient credits for the award of the LLB. Dependent on performance in the first two years, there may be an opportunity to proceed to an Honours year.

Careers
All of our LLB graduates satisfy the professional requirements of the Law Society of Scotland and the Faculty of Advocates to proceed to the post-degree stages of professional training required to become a practising lawyer in Scotland. Law graduates are highly regarded by employers within and outwith the legal profession and there are many opportunities open to them. 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 are many other options to consider.

Law

www.strath.ac.uk/humanities/lawschool

Trained Scots lawyers are increasingly in demand in England and abroad. Opportunities for legally-trained graduates also exist in areas such as finance (investment banking, accountancy, tax, retail banking, insurance), management consultancy, central and local government, journalism, human resource management, social work, housing and university administration. Law graduates can enter many of these immediately after obtaining an LLB; for others it may be necessary to consider a one-year postgraduate course.

LLB (Honours) Law with a Modern Language

This joint Honours degree allows students to combine Law with either French, Italian or Spanish. It requires five years of full-time study, including a compulsory year spent at a Law school/faculty of a university in the relevant country. The curriculum followed at Strathclyde and the foreign institution places equal weight on the study of Law and the language and culture of the target country.

Course Structure

The structure of the degree will be broadly similar to that outlined below, although some classes may be subject to change.

Year 1: You study five of the same Law subjects as the other LLB students (except criminal law) and follow two intensive semester-long classes in French, Italian or Spanish. Students spend five-sevenths of their time on Law classes, and the remaining two-sevenths on classes in their chosen language. This amounts to one language class in each semester of the academic year. The same five-sevenths/two-sevenths split applies in Years 2 and 3.

Year 2: You continue with second-year core Law classes and also take the Introduction to Civil Law Systems class which introduces general approaches to law in continental European jurisdictions, with emphasis on those jurisdictions where students will be spending time during their fourth year.

Year 3: You undertake four further core Law classes and have flexibility to choose one optional class from the range available in the Law School.

Year 4: The fourth year is spent abroad following an approved curriculum in both Law and language.

Year 5: Honours students study the equivalent of two classes in Law, two in the relevant modern language, and submit a dissertation on a Law subject.

Careers

All of our LLB graduates satisfy the professional requirements of the Law Society of Scotland to proceed to the post-degree stage of professional training required to become a practising lawyer in Scotland. It is also feasible to take appropriate optional classes to ensure that the requirements of the Faculty of Advocates are also met. The single European market and the mutual recognition of legal qualifications in the EU member states allows lawyers to practice their profession outside their national jurisdictions (often on completion of a short conversion course) and Law with a Modern Language graduates are well-placed to work professionally in the country of the language they have studied. Knowledge of the law, legal system and language of at least one other EU member state greatly enhances career opportunities in the fields of industry, commerce, banking and accountancy, central and local government.

Student profile

Alasdair Stewart

LLB (Honours) Law

Studying at Strathclyde was an entirely positive experience. Learning with friendly and approachable academics, a great group of students, and at the heart of a great city, we were not only being educated but also gained important skills that would serve us well in the future.

The most important for me was the opportunities provided by the University's Law Clinic to put the law into practice under the supervision of solicitors. Being able to work with a client on a real case in the same way as a qualified solicitor is a great way to learn how the law really works. I now work as a project manager for the LawWorks Clinics Project, supporting 100 free legal advice clinics across the country. The role allows me to use the skills and knowledge I acquired during my law degree, and in particular, the experience I gained at the Law Clinic.

BA (Honours)

Social Work

UCAS L501

Highers 2nd sitting **BBBB**

A Levels **BBB**

For full entry requirements, please see table on page 86.

Contact
Courses Support Team
e: hass-courses-apss@strath.ac.uk

Social Work

www.strath.ac.uk/humanities/socialwork

The BA (Honours) degree in Social Work will prepare you for the challenging role of being a social worker and provide you with a clear view of the core knowledge, skills and values needed for social work practice.

Social work has a particular responsibility to promote the rights of powerless people, to protect vulnerable and disadvantaged people and to address the causes and effects of offending behaviour. Social workers engage with individuals, families and groups in a variety of settings, such as neighbourhood offices, daycare centres and residential units, as well as the homes of service users. Social workers also provide services in health-care settings, community centres, schools, courts and prisons.

Validated by the Scottish Social Services Council and closely aligned to the Standards in Social Work Education, this programme will give you a recognised professional award in social work. This qualification in Social Work is recognised throughout the UK and is expected to meet the criteria for recognition in the EU and elsewhere overseas.

Our teaching staff are at the forefront of research to encourage best practice in the profession and we host the Centre for Excellence for Looked After Children in Scotland, an initiative which supports parents, carers, care professionals, health workers and teachers to strengthen the welfare of children in all care settings.

Course Structure
The course provides a stimulating blend of university-based teaching and agency-based learning opportunities. Teaching and learning is student-centred and aims to promote reflective learning. Practice learning in social work service agencies is fundamental to the course, with major placements of 80 days each in Years 3 and 4.

Classes focus on social work practice issues throughout the course. Across the four years, subjects studied will include Psychology, Social Policy, Law and Social Work Practice. The course is supported and enhanced by the resources available through key developments such as Community Care Works, an online database of good practice in community care, and the Learning Exchange, the world's first interactive library of digital learning resources for social work education.

The University has well-established links with the University of North Carolina in the United States and an exchange agreement with the University of Malta. The former offers opportunities for exchange modules taught alongside US students while the latter offers the opportunity to complete a field placement in Malta.

Teaching and Assessment
Problem-based learning (PBL) is a key approach, universally recognised as an effective way of developing essential skills for professional practice. Very small student groups, supported by staff, explore, debate, conduct research and reach agreement about appropriate responses to questions drawn from 'real world' practice scenarios. Extensive use is also made of high quality teaching video material and online resources.

PBL is supplemented by lectures, seminar groups, and individual skills rehearsal. Substantial use is made of the virtual learning environment to improve availability to study materials, initiate and extend discussion as well as improve accessibility to students with disabilities.

Assessment methods include essays, reports, presentations (which may make use of video), peer group assessments and, in only a few cases, examination.

Careers
Social workers are now among the best-paid public sector workers, with starting salaries ranging from about £24k-£30k. Qualified social workers are in demand in a range of sectors and settings, especially children and family services. Graduates from this course occupy positions at all levels in social work, including senior management and directorate level, in local authorities and in the independent sector.

BSc (Honours)

Speech & Language Pathology

UCAS B630

Higher 1st sitting **AABB**

Higher 2nd sitting **AAAB**

A Levels **ABB**

For full entry requirements, please see table on page 87.

Contact
Courses Support Team
e: hass-courses-psh@strath.ac.uk

Speech & Language Pathology

www.strath.ac.uk/humanities/speechlanguagetherapy

Speech and language therapists work to assess and treat a wide variety of speech, language and communication problems. The BSc (Honours) in Speech & Language Pathology is the route into this profession and our programme is the longest established in Scotland and one of the oldest in the UK.

The course is approved by the Health Professions Council and Royal College of Speech and Language Therapists and at 95%, our student completion rate is very high. Graduates are eligible to apply for registration with the Health Professions Council (which is essential for employment as a speech and language therapist in the UK) and the Royal College of Speech and Language Therapists. Therapists work with children and adults of all ages who may have experienced failure to communicate at an early age, who have developed communication difficulties following a stroke or traumatic brain injury, voice disorders such as hoarseness, learning disabilities, stammering or problems swallowing and chewing.

Course Description
The degree is awarded at Honours level after four years of study. Theoretical and practical studies are integrated throughout the course. Clinical practice within each academic year includes placements in schools, nurseries, hospitals and other settings.

www.strath.ac.uk/humanities/speechlanguagetherapy

The main areas of study are:

- Biomedical Sciences
- Linguistics and Phonetics
- Psychology
- Communication Difficulties and Disorders (speech and language pathology and therapy)

Examples of Classes
Year 1: Anatomy: Head, Neck and Nervous System; Phonetics Theory and Practical Phonetics; Cognitive Development and Psycholinguistic Processing; Physiology, Personality and Behaviour; Personal Development and Professional Practice 1
Year 2: Clinical Medical Studies; Linguistics: Theory, Development and Clinical Application; Childhood Speech, Language and Communication Difficulties and SLT Intervention 1 & 2; Adult Aphasia, Dysarthria and Voice; Personal Development and Professional Practice 2
Year 3: Clinical Decision Making and Counselling; Further Studies in Adult Communication Disorders; Professional Roles and Linguistic Perspectives; Research Design, Data and Analysis; Persistent Childhood Speech, Language and Communication Disorders; Personal Development and Professional Practice 3
Year 4: Research Investigation 1; Research Investigation 2; Advanced Studies in Communication Disorders; Continuing Professional Development; Personal Development and Professional Practice

Teaching and Assessment
Teaching is carried out in lectures, seminars, workshops, tutorials and in the clinical setting and is supported by web-based materials and discussion groups. Assessments include observation of clinical work, written exams of multiple choice, short answer and essay formats, and written and practical assignments, including data analysis exercises.

International Experience
Exchange visits may be undertaken in Year 4 for a minimum of three months. Partner institutions, some of which teach in English, include universities in the US, Spain, Malta, Dublin, Germany, Finland and Sweden. Funding towards travel and living costs is available from the Socrates/ Erasmus exchange programme.

Careers
Speech and language therapists are often employed within the NHS. Our graduates work closely with colleagues in education and health and are based in hospitals and in the community, in city and rural locations. Recent graduates hold posts as speech and language therapists in: a stroke rehabilitation unit, school-age special needs team, acute hospital, bilingual team, preschool language unit, and a resource centre for adults with learning disabilities. Some graduates also undertake research leading to Master's and Doctorate degrees.

BSc (Honours)

Sport & Physical Activity

UCAS CX63

Higher 1st sitting **BBBB**

Higher 2nd sitting **ABBB**

A Levels **BBC**

For full entry requirements, please see table on page 87.

Contact
Courses Support Team
e: hass-courses-psh@strath.ac.uk

Sport & Physical Activity

www.strath.ac.uk/humanities

The course provides a grounding in academic and practical skills in sport and physical activity and allows students to specialise in sport coaching and development or applied exercise science.

Sport and physical activity influence the lives of people of all ages, in leisure time and at work, and affect our sense of wellbeing at an individual, community and national level. Participation in sport and physical activity has been placed at the forefront of local and national agendas because of health issues, but also because of upcoming events such as the London 2012 Olympic Games and the Glasgow 2014 Commonwealth Games.

This course has been developed with these issues in mind, and provides an opportunity to study a broad range of sport and physical activity topics. Graduates will have the knowledge and skills to enrich people's lives through promotion, development and understanding of issues related to sport and physical activity.

Course Structure
Years 1 and 2 cover core elements of sports practice, physical activity for health, human movement science, coaching, sports development, psychology, and social science. Practical work includes a wide variety of sports and physical activities ranging from volleyball, football and athletics, to gymnastics and health-related fitness.

Opportunities
You can combine your studies with competition at national and international level in sports such as badminton, netball, athletics and golf. The University offers a bursary scheme to assist with competition and training costs. You will also have the opportunity to study in on of our partner institutions in the US, Canada or New Zealand on a student exchange programme, generally in Year 3.

Careers
Graduates are employed in areas such as sports development, coaching, health promotion, exercise physiology, active schools coordination and GP exercise referral consultancy.

Some choose to study towards postgraduate qualifications (MSc, MPhil, PhD) which can lead to careers teaching in further or higher education or careers in research. The Sport and Physical Activity degree is also an excellent route into PE teaching, and the University runs a very successful postgraduate qualification (PGDE) as an entry to the teaching profession. A number of students take the skills gained from this course into careers in the emergency services.

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Arts & Social Sciences			
BA (Honours) English French History Italian Journalism & Creative Writing Law Politics Psychology Spanish	**Highers** 1st sitting: **AAAB** 2nd sitting: **AAABB** **A Levels ABB** **IB: 34** **HND/HNC** HNC **Social Sciences, A** in Graded Unit may enable first year entry; HND **Social Sciences, AAB** in Graded Units may enable second year entry **Irish Leaving Certificate** Subjects and grades as for Highers	**English** Standard Grade (**2**) or Int 2 (**C**) or GCSE **English Language** (**B**) and **English Literature** (**B**) or IB (**SL5**) For Honours combinations with English – Higher **English (B)** For Honours combinations with Journalism & Creative Writing – **English** Higher **(A)** or A Level **(B)** or IB **(HL6)** at first sitting **Maths** Standard Grade (**2**) or Int 2 (**C**) or GCSE (**B**) or IB (**SL5**) For joint degrees with Mathematics, Higher (**A**) Higher **(A/B)** or AS Level **(A/B)** in at least two subjects listed below: **Classical Studies** **English** **French** **Geography** **German** **History** **Italian** **Modern Studies** **RMPS** **Philosophy** **Politics** **Psychology** **Sociology** **Spanish**	**Advanced Highers** An Advanced Higher and a Higher are given equal credit and the grades for each qualification count towards the total grades required. **Deferred Entry** Deferred entry not accepted **Highers students:** due to the high level of competition for the number of available places on our Arts & Social Sciences degrees, it is unlikely that Conditional Offers will be made to anyone attaining less than BBBB at the first sitting of Highers and that Conditional Offers may or may not be made to applicants attaining that standard of performance or better, depending on the level of competition for the available places Second year entry for A Level/Advanced Higher candidates is possible with AB in subjects you are planning to study **Journalism & Creative Writing** applicants must submit to the University by 28 February 2013 a portfolio of writing as follows: ■ 300 words about the role of a specific book in making you want to become a writer and/or journalist ■ 500 word review of an event you have attended, explaining the event itself and assessing whether it was worth your time and attention; this should feature a combination of your own written 'voice', a narrative structure and compelling, skillfully-expressed views ■ up to 300 words of prose or poetry; this may be an extract from a longer piece; you may, if you wish, provide a short introduction, no longer than 100 words **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 of the Honours course, a student must have qualified for the award of the Bachelor of Arts degree and achieved an approved standard of performance **Contact** **e:** arts-admissions@strath.ac.uk

Course	Minimum Grades	Required Subjects	Additional Information
Education			
BA (Honours) Primary Education	**Highers** 1st sitting: **AAAB** 2nd sitting: **AAABB** **A Levels** **ABB** **IB:** **34** **HND/HNC** HNC **Early Education & Child Care** or **Social Sciences, B** in Graded Unit, plus two Highers at Grade **B**; HND **Social Sciences** may enable first year entry; second year entry maybe be possible with HND **Supporting and Managing Learning Needs** (Langside College) **Irish Leaving Certificate** **BBBB** including **English Language** or **Literature** Higher; **Ordinary Mathematics** at **B** or better	**English** Higher (**B**) or **Communications 4** plus **Literature 1** or GCSE **English Language** (**B**) and **English Literature** (**B**) or IB (**HL5**) **Maths** Standard Grade (**2**) or Int 2 (**C**) or GCSE (**B**) or IB (**SL6**)	**Deferred Entry** Deferred entry not accepted ■ English and Maths requirements apply to all candidates ■ We look for evidence of strong commitment to working with children and to teaching ■ Experience of working with children in a formal sitting is preferred but not essential **Contact** Courses Support Team **e:** hass-courses-edu@strath.ac.uk For Gaelic Medium: Mona Wilson **t:** +44 (0)141 950 3385 **e:** mona.wilson@strath.ac.uk
BA Childhood Practice	First year entry with an **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 SQCF credits with 120 credits at level 8.		■ 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) ■ 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 is direct to the University. Application forms and Learning Statements are available from the course administrator **Contact** Courses Support Team **e:** hass-courses-edu@strath.ac.uk
BA Education & Social Services	**Diploma of Higher Education in Education & Social Services** Additionally, you will require two supporting documents: ■ **Confirmation** from the Board of Examiners that you have met the requirements to progress to the final year of the degree ■ A **Personal Statement** outlining your commitment to continuing on the course		The Diploma of Higher Education in Education and Social Services runs at the following colleges: **James Watt College** t: 01475 553007 e: education@jameswatt.ac.uk **Langside College** t: 0141 272 3600 e: enquireuk@langside.ac.uk **Motherwell College** t: 01698 232425 e: abaxter@motherwell.co.uk Application is made directly to the college in the first instance Entry to the Diploma requires a relevant HNC such as: Early Education and Childcare; Health Care; Social Care; Supporting Learning Needs; Occupational Therapy Support All enquiries regarding entry to the HE Diploma should be made to the relevant college contact **Contact** Courses Support Team **e:** hass-courses-apss@strath.ac.uk

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Law			
LLB (Honours) Law Law with a Modern Language	**Highers** 1st sitting: **AAAAB** 2nd sitting: **AAABBBB** **A Levels:** Year 1 entry: **AAB** Year 2 entry: not offered **IB: 38** **HND/HNC** First year entry possible with HND Legal Services and other relevant HND qualifications will be considered on an individual basis; please contact us for advice **Irish Leaving Certificate** **AAAABB** (including English)	**English** Higher (**B**) or GCSE **English Language** (**B**) and **English Literature** (**B**) or IB (**HL5**) or IELTS (**6.5**) **Maths** Standard Grade (**3**) or Int 2 (**C**) or GCSE Maths (**C**) or IB (**SL**) **French** or **Italian** or **Spanish** (for Law and a Modern Language) Higher (**B**) or A Level (**B**) or IB (**HL6**)	**Advanced Highers** An Advanced Higher and a Higher are given equal credit and the grades for each qualification count towards the total grades required. **Deferred Entry** Deferred entry accepted Essay-based Highers/Advanced Highers/A Levels recommended, eg Social subjects, Philosophy, Psychology, RMPS Experience in a law firm is not expected **Contact** **t:** +44 (0)141 548 3738 **e:** hass-courses-law@strath.ac.uk
Social Work			
BA (Honours)	**Highers** 2nd sitting: **BBBB** or **BBBCC** (entry generally from S6) **A Levels BBB** **HND/HNC** An HNC in Social Care, Social Science, Child Care and Education, Counselling, Working With Communities and Supporting Learning Needs with B in Graded Unit may enable first year entry; second year entry may be possible with a relevant HNC/HND plus minimum six months relevant and challenging work experience **Irish Leaving Certificate** **BBBB** (minimum **B2**) plus **Maths** and **English** at minimum (**A1**)	**English** (or a Social Subject) Higher (**C**) or GCSE **English Language** (**C**) and **English Literature** (**C**) or IB (**SL5**) **Maths** Standard Grade (**2**) or Int 2 (**C**) or GCSE (**B**) or IB (**SL5**)	**Advanced Highers** An Advanced Higher and a Higher are given equal credit and the grades for each qualification count towards the total grades required. **Deferred Entry** Deferred entry accepted ■ We look for evidence of professional suitability through a follow-up questionnaire and character reference. Registration with Protection of 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** Courses Support Team **e:** hass-courses-apss@strath.ac.uk

Course	Minimum Grades	Required Subjects	Additional Information
Speech & Language Pathology			
BSc (Honours)	**Highers** 1st sitting: **AABB** or **ABBBB** 2nd sitting: **AAAB** or **AABBB** **A Levels: ABB** **IB: 32** **HND/HNC** Please contact us for advice about entry with HNC/HND **Irish Leaving Certificate** **ABBBB**, including **English**, Ordinary levels including a **Science**, another language and **Maths**	**English** Higher **(B)** or AS Level **(B)** or IB **(HL6)** **Maths** and a **Science** (**Chemistry**, **Biology**, **Physics**, **Technological Studies** or **Computing**) Standard Grade **(3)** or GCSE **(C)** or IB **(SL5)** **French**, **Spanish**, **Italian** or **German** Standard Grade **(3)** or GCSE **(C)** or IB **(SL5)**	**Advanced Highers** An Advanced Higher and a Higher are given equal credit and the grades for each qualification count towards the total grades required. As a B grade is required for English, less than B at Higher English can only be overtaken by a B in Advanced Higher English **Deferred Entry** Deferred entry accepted Good knowledge of communication difficulties and the work of the speech and language therapist are required in the Personal Statement; this information can be obtained through clinic visiting, work which brings contact with people who have communication difficulties, attendance at Speech & Language Therapy information sessions, such as the Strathclyde session for applicants in late October, and appropriate reading, including the website of the Royal College of Speech and Language Therapists – **www.rcslt.org** Applicants whose first language is not English require IELTS (7.5) with no less than 7 in any of the four components **Contact** Courses Support Team **e:** hass-courses-psh@strath.ac.uk
Sport & Physical Activity			
BSc (Honours)	**Highers** 1st sitting: **BBBB** or **ABBC** 2nd sitting: **ABBB** or **BBBBC** **A Levels BBC** **IB: 32** **HND/HNC** First year entry possible with a relevant HNC, B in Graded Unit; second year entry considered on an individual basis; please contact us for advice **Irish Leaving Certificate** Subjects and grades as for Highers	**English** Higher **(C)** or GCSE **English (C)** or IB (**HL5**) **Maths** and/or a **Science** recommended at Higher **(C)** or AS Level **(C)** or IB **(HL5)**	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry accepted Personal statement must demonstrate a real commitment to sports and physical activity and enthusiasm for working with others. **Contact** Courses Support Team **e:** hass-courses-psh@strath.ac.uk

Faculty of Science

www.strath.ac.uk/science

Artur Jonkisz

BSc (Honours) Computer Science

Software Development Engineer, *Amazon*

When I was choosing a university the most important factors to me were the quality of education and employability of its graduates. Strathclyde's Science faculty not only provided me with theoretical knowledge but prepared me well for a professional career.

My degree covered all the areas I was tested on during the interview process. Algorithms, data structures, code optimisations, networking, operating systems and most importantly good programming skills are only a part of what I learned. I now use the knowledge and problem-solving skills I gained at university in my job as a software development engineer for Amazon and they make my already enjoyable work even more enjoyable!

As an international student I found the University very welcoming

I came from Poland to study in the UK. As an international student I found the University very welcoming. Staff are patient and always find time to help which is incredibly valuable and can either make or break the studying experience; in this case it made it.

I made regular use of the University Careers Service. They put me in touch with various companies, helped make my CV stand out from the crowd and also helped me prepare for interviews and the various tests that are a part of today's recruitment process.

My final-year project won me the Young Software Engineer of the Year award for the best undergraduate software project in Scotland. My project developed a diagnostic tool which allows software engineers to visualise what is happening inside a Java software programme, while the programme is running.

The University's location is a definite advantage, close to excellent travel links. Glasgow city centre is a vibrant place where there is always something going on. There are plenty of clubs, bars, restaurants and shops so it is almost impossible to get bored.

Quick Guide

Below is a list of undergraduate courses offered in the Faculty of Science

Page	Course	Degree	Highers	A Levels
98	Applied Chemistry & Chemical Engineering	MSci	AABB or AAAC	ABB
93	Biochemistry & Microbiology	BSc (Honours)	ABBB or AABC	BBB
93	Biochemistry & Immunology	BSc (Honours)	ABBB or AABC	BBB
93	Biochemistry & Pharmacology	BSc (Honours)	ABBB or AABC	BBB
93	Biochemistry or Immunology or Microbiology or Pharmacology	MSci	AABB or AAAC	ABB
94	Biomedical Science	BSc (Honours)	ABBB or AABC	BBB
103	Business Information Systems	BSc (Honours)	BBBB or ABBC	BBC
98	Chemistry	MChem	BBBB or ABBC or AAB	BBC
98	Chemistry with Drug Discovery	MChem	AABB or AAAC	ABB
100	Chemistry with Teaching	MChem	AABB or AAAC	ABB
44	Computer & Electronic Systems	MEng BEng (Honours)	AAAAB AAAB	AAA AAB
102	Computer Science	MEng BSc (Honours)	AABB or BBBBB BBBB or ABBC	AAB BBC
103	with Law	BSc (Honours)	AABB or BBBBB	ABB
100	Forensic & Analytical Chemistry	MChem	AABB or AAAC	ABB
94	Forensic Biology	BSc (Honours)	ABBB or AABC	BBB
93	Immunology & Microbiology	BSc (Honours)	ABBB or AABC	BBB
93	Immunology & Pharmacology	BSc (Honours)	ABBB or AABC	BBB
104	Mathematics/Mathematics & Statistics	MMath BSc (Honours)	AAAB or AABBC ABBB or ABBCC	ABB BBB
106	Mathematics and Computer Science	BSc (Honours)	ABBB or ABBCC	BBB
106	and Physics	BSc (Honours)	ABBB or ABBCC	BBB
105	with Teaching	BSc (Honours)	ABBB or ABBCC	BBB
106	Mathematics, Statistics and Accounting	BSc (Honours)	AAAA or AAABB	AAB
106	and Economics	BSc (Honours)	ABBB or ABBCC	BBB
106	and Finance	BSc (Honours)	ABBB or ABBCC	BBB
106	and Management Science	BSc (Honours)	ABBB or ABBCC	BBB
107	Pharmacy	MPharm	AABB	AAB
110	Physics	MPhys BSc (Honours)	AAAB or AABBB ABBB or BBBBB	ABB BBB
110	with Teaching	BSc (Honours)	ABBB or BBBBB	BBB
103	Software Engineering	BSc (Honours)	BBBB or ABBC	BBC

Note: Grades above are for first-year entry. Second-year entry grades and other qualifications are listed on pages 112-117.
Entry Requirements current at time of publications. Please refer to Terms & Conditions, pg 160.

Faculty of Science

The Faculty of Science covers all the major scientific disciplines from the life sciences, through chemistry and physics, to computer science, mathematics and statistics. If you are seeking an exciting and successful career in science, we can provide the platform you need.

A strong research base underpins our teaching and the many links with industry, the NHS and international partners ensure that our students have the opportunity to work on placements, locally or abroad, to gain work or research experience. The Faculty embraces the University's philosophy of 'useful learning'. Informed by the world-class research being pursued in all our Departments, Science courses at Strathclyde combine theoretical understanding with an emphasis on modern applications, giving our graduates the knowledge and skills that are relevant in today's world. It's an approach that impresses employers.

The skills embedded in your course are transferable, so your science degree can be a passport to a career in business or the public sector, where the ability to analyse and solve problems is highly valued.

Degree Structure

The Faculty's flagship courses are the Integrated Master's degrees (MChem, MEng, MMath, MPharm, MPhys, MSci), which take you beyond the traditional Honours degree level into study at Master's level. These are offered by all our Departments and, with the exception of the MPharm, are five-year full-time courses. Some of our courses are available on a part-time basis. Numerous joint degrees combine the study of different disciplines – some combining Science with a subject from one of the University's other faculties.

Direct entry to second year of some degree courses may be available to students with good passes in appropriate subjects at Advanced Higher or A Level (or equivalent).

Most Science degrees comprise a core curriculum of compulsory classes, supplemented by a choice of options. In addition you can also choose electives from across the University.

International Experience

The University takes part in many international exchange programmes which offer our students the opportunity to study abroad for up to one year of their course, typically in Europe, the USA or Canada. Through international research links, Science Faculty departments can offer assistance to students in identifying suitable overseas institutions in which to study. Study abroad may involve attending classes or undertaking project/laboratory work. We are also supportive of vacation placements abroad.

Employment Opportunities

The reputation of Strathclyde's Science courses, combined with the expertise of the University Careers Service, ensures that our students are competitively placed in the job market. Through the Personal Development Programme element of all courses, Science students are encouraged to embark on career planning from an early stage in their university life. Work placements associated with a number of Science degrees often lead to the offer of a full-time job on completion of the course. The Careers Service also offers assistance in identifying suitable part-time employment opportunities during the degree, which can be helpful in determining your career preferences and providing useful relevant experience.

Key facts

Employers like us

Our emphasis on the applications of Science gives Strathclyde graduates a head start when it comes to finding a job. Industrial placements form part of many of our courses.

An exciting place to learn

A research-intensive environment and modern teaching methods make the Faculty an exciting place to learn. Students and academics from all over the world share an energy and passion for their study and their research. International exchange programmes are open to all students, offering you the opportunity to study abroad as part of your degree course.

A supportive environment

Approachable and caring members of staff provide a supportive environment in which to pursue your studies.

Teaching excellence

The Faculty's teaching quality is consistently rated highly by official agencies and by students. Many courses are accredited by professional institutions.

Inspirational research

Groundbreaking research complements and informs our teaching, giving our students the advantage of understanding the impact that leading-edge science has on the modern world and in a global context.

Flexible degree structure

Our degree structure allows significant student choice in most degrees. Transfer is possible between similar subject areas up to the beginning of Year 2, and even later in some cases.

BSc (Honours)

Biochemistry & Immunology
UCAS CC79
Biochemistry & Microbiology
UCAS CC75
Biochemistry & Pharmacology
UCAS CB72
Immunology & Microbiology
UCAS CC59
Immunology & Pharmacology
UCAS CB92
Biomedical Science
UCAS C192
Forensic Biology
UCAS C190
Highers 1st sitting **ABBB**
Highers 2nd sitting **AABB**
A Levels **BBB**

MSci

Biochemistry
UCAS C720
Immunology
UCAS C550
Microbiology
UCAS C500
Pharmacology
UCAS B211
Highers 1st sitting **AABB**
Highers 2nd sitting **AAAB**
A Levels **ABB**

For full entry requirements, please see table on page 112.

Contact
Dr Charles Kennedy
t: +44 (0)141 548 2202
e: sipbs-biomed@strath.ac.uk

Biological & Biomedical Sciences

The Biological & Biomedical Sciences degree courses are designed to reveal the excitement of developments in biology and medicine and to provide a high-level, scientifically-based education. They are offered by the Strathclyde Institute of Pharmacy and Biomedical Sciences.

Biological and biomedical sciences (also known as life sciences) lie at the interface of science and medicine and take in biochemistry, microbiology, immunology and pharmacology. Discoveries of scientists in these fields have had a profound impact on society, from early discoveries such as vaccines and penicillin, which dramatically improved the quality of life of the human race, to the modern drug industry, enabling people with conditions such as heart disease, diabetes, asthma and depression to live their lives free from the debilitating symptoms of these diseases.

The ability to analyse DNA, the code of life, has led to totally new and undreamt-of directions of scientific research. We are increasing our understanding of how biology is controlled by DNA and learning how DNA is influenced by the environment. Breaking the DNA code has also revolutionised the field of forensic science with the development of new procedures for identifying individuals.

Modern medicine is also benefiting from taking an increasingly molecular approach, leading to rapid advances in understanding how organisms work and developing strategies for treating disease. Many recent innovations based on discoveries in molecular biology, genetics, immunology and other biosciences, coupled with advances in fermentation technology, have led to the creation of new biotechnology-based companies and other business opportunities for scientists.

Why study Biological & Biomedical Sciences at Strathclyde?
Strathclyde is unique in Scotland in offering five joint Honours degrees, allowing you to combine two subject options, and also specialist degrees that will enable you to choose a particular career path in industry or the public sector. Through the Integrated Master's (MSci) courses, there is also the opportunity to take one biomedical science discipline to Master's level by completing a research-led fifth year of study.

Particular topics covered within our courses include molecular bioscience, drug research, neuroscience, the cardiovascular system, immune system function, forensic biology and the environment. Course content is kept up-to-date via the strong industrial and research links of the academic staff of the Institute.

The opportunity to gain valuable experience by taking part in lab-based research as your final-year Honours project is available. Final-year Honours students can also take part in enterprise projects of commercial significance for a pharmaceutical or biotechnology company in the west of Scotland. Socrates/Erasmus student exchange programmes offer the chance to study and take part in lab-based research abroad.

Careers
A Strathclyde degree opens the door to several career opportunities. You could be involved in the development of novel drugs, food processing, protecting the environment, fighting disease or even slowing the ageing process. Graduates have found jobs in the pharmaceutical, biotech and agrochemical industries, hospitals and public health laboratories, environmental centres, analytical and forensic science labs, universities, the scientific civil service and teaching at all levels. Many also continue to postgraduate studies and research. The transferable skills you acquire will prepare you not only for a career in science, but also for positions in areas

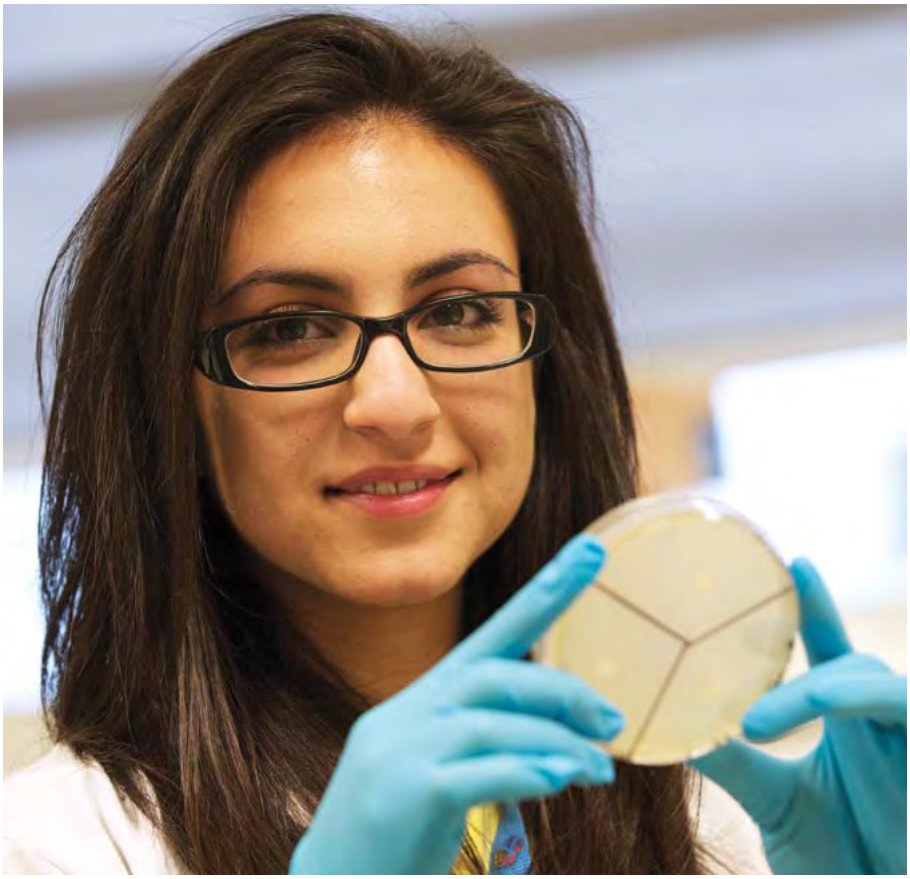
such as finance, management, marketing, sales, business and the media. The degree in Biomedical Science is accredited by the Institute of Biomedical Science (www.ibms.org), which enables graduates to apply for jobs in hospital labs and get on to training programmes for professional registration.

Our Courses

Honours degree courses last for four years. The Integrated Master's degree courses last five years. The core curriculum for the first two years of the joint Honours degrees and the Biomedical Science degree is common and allows you to defer your final choice of degree until almost the end of Year 2. The core curriculum for the MSci degree courses is the same as the joint Honours courses in Years 1 to 4. In Years 3 and 4 you will specialise according to the degree in which you plan to graduate. The Forensic Biology degree shares a core curriculum for the first two years with the joint Honours degrees and the specialist curriculum starts in Year 3. While students may transfer out of this degree to other courses, they cannot transfer in.

Students registered on Honours courses who do not qualify for entry to the final year (or who, for any reason, elect not to take it) may qualify for the award of a BSc in Biological Sciences at the end of Year 3.

Transfers are also possible into and out of courses offered by other departments, such as Pure & Applied Chemistry.



Teaching and Assessment

All courses have around 240 hours of lectures, tutorials and labs per year in Years 1 to 3. In the Honours (fourth) year, you will carry out a research project in one of your specialisations and write it up as a short thesis. The MSci courses contain a significant amount of project work in the final (fifth) year.

Your course will utilise a range of teaching modes – generally in the following proportions: lectures 25%; laboratory classes and projects 15%; laboratory reporting 10%; dissertation 19%; guided reading 20%; tutorials and workshops 10%; clinical attachments 1%. Assessment methods include multiple-choice tests, computer quizzes, problem-solving scenarios, poster and oral presentations, essays, and formal written exams.

BSc Joint Honours Degrees

Biochemistry & Immunology
Biochemistry & Microbiology
Biochemistry & Pharmacology
Immunology & Pharmacology
Immunology & Microbiology

These are for students interested in combining two of the Biomedical Science options, Biochemistry, Immunology, Microbiology and Pharmacology. The opportunity to choose specific degree combinations enables graduates to opt for many rewarding career choices, including the ability to go into specialist biomedical science areas such as immunopharmacology, industrial immunology, drug research, microbiology and bacteriology.

MSci Integrated Master's Degrees

Biochemistry
Immunology
Microbiology
Pharmacology

These are for students interested in specialisation in a single Biomedical Sciences option (Biochemistry, Immunology, Microbiology and Pharmacology) at Master's level. The final (fifth) year focuses on the development of generic and discipline-based research skills and knowledge. A significant part of the curriculum is project-based. These courses are particularly appropriate for individuals interested in pursuing academic or research-related careers.

Biological & Biomedical Sciences

www.strath.ac.uk/sipbs

What is Biochemistry?
Biochemistry is the study of the composition, metabolism and function of biological systems at the molecular level. Biochemistry, and the related field molecular biology, provide important advances into understanding the molecular basis of life, and how alteration or disruption of these molecular pathways leads to disease processes.

What is Immunology?
Immunology is the study of how the body defends itself against disease. This not only includes defence against bacteria, parasites or viruses, but also the elimination of cancer and processes like 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.

What is Microbiology?
Microbiology is the study of the smallest living organisms (micro-organisms or microbes), which include viruses, bacteria, fungi, algae and protozoa. Microbes are a major cause of disease in humans but they can also be useful in industrial processes from pollution control to the production of important therapeutic compounds.

What is Pharmacology?
Pharmacology is the study of how drugs and other chemicals affect the functions of the body in health and disease. As a discipline it underpins the development of new or improved medicines within the pharmaceutical industry and the treatment of disease within the healthcare sector.

BSc (Honours) Biomedical Science
(accredited by the Institute of Biomedical Science)

This course offers a more general broad-based degree than the specialist joint Honours Biomedical degree programmes. You follow a similar curriculum up to Year 3, but instead of specialising in only two of the Biomedical Science options above, you take classes selected from all four disciplines, thereby developing a broad understanding of all aspects of biomedical sciences.

Biomedical Science is a continually changing, dynamic profession with diverse long-term career prospects including management, research, education, advanced roles and specialised laboratory work. UK biomedical scientists are employed in NHS and private sector laboratories and also work in other organisations such as the National Blood Authority, Health Protection Agency and Medical Research Council. They are also employed in a variety of roles, including the veterinary service, the Health and Safety Executive, university and forensic laboratories, research, pharmaceutical, commerce, the armed forces and various government departments. There are also opportunities for biomedical scientists to use their training and skills in healthcare posts and projects around the world. They can be found in voluntary work in developing countries on behalf of international bodies such as the World Health Organisation and the Voluntary Service Overseas.

Biomedical science represents an opportunity to put scientific knowledge into practical use and perform a key role within medical healthcare that offers career satisfaction for many in the profession. Biomedical scientists learn skills and gain qualifications that can be transferred all over the UK and can be recognised worldwide.

FBSc (Honours) Forensic Biology
(in collaboration with the Centre for Forensic Science at Strathclyde)

This degree concentrates on the biological aspects of forensic science. A solid grounding in all aspects of forensic science, in combination with the biological principles that underpin past, present and future forensic techniques, prepares graduates for further postgraduate study and employment in forensic science laboratories. Graduates can also pursue careers where analytical skills are in high demand, such as in the pharmaceutical industry and public service laboratories in hospitals, helping to provide an essential understanding of the application of pharmacology in an industrial context.

Student profile

Tamara Cairney

BSc (Honours) Forensic Biology

I was always interested in science at school and as biology was my favourite, this course was the one for me. A big attraction was the fact that some of the forensic science lecturers are involved in major advances in DNA analysis. Between my third and fourth year I had a research placement in the Strathclyde Institute of Pharmacy and Biomedical Sciences for which I was granted a bursary from the summer studentship fund run by the British Pharmacological Society.

Studying at Strathclyde has developed the key skills that employers look for in graduates and it means that I am employable in a range of job markets.

Chemistry, Pure & Applied

MChem

Chemistry

UCAS F103

Higher/A Levels **ABBC/BBC**

Chemistry with Drug Discovery

UCAS F190

Forensic & Analytical Chemistry

UCAS FF41

Chemistry with Teaching

UCAS F1XC

Higher/A Levels **AABB/ABB**

MSci

Applied Chemistry & Chemical Engineering

UCAS FH18

Higher/A Levels **AABB/ABB**

BSc (Honours) Schemes

apply via MChem Chemistry

Chemistry

Chemistry with Analytical Chemistry

Chemistry with Drug Discovery

Forensic Chemistry

UCAS F103

Higher/A Levels **ABBC/BBC**

For full entry requirements, please see table on page 113.

Contacts
Roslyn Nimmo (Admissions Secretary)
t: +44 (0)141 548 2282
e: roslyn.nimmo@strath.ac.uk

Dr Mark Dufton (Academic Selector)
t: +44 (0)141 548 2440
e: mark.dufton@strath.ac.uk

Dr Debbie Willison (Head of Teaching)
t: +44 (0)141 548 3281
e: d.willison@strath.ac.uk

The Department of Pure & Applied Chemistry is a vibrant mix of enthusiastic students and talented researchers from across the globe. Our courses have unique and specialist applications of chemistry. Our staff are internationally recognised chemists and forensic experts active in research and engaged in international casework.

Strathclyde has built an enviable reputation for teaching chemistry by developing an individual approach to the types of degree it offers and the research it undertakes. The key element of this approach is that we embrace both pure and applied chemistry to give our students the maximum flexibility when it comes to choosing an area of chemistry to study and a career path after graduation.

Pure chemistry is about unravelling the mysteries of molecular structure and reactivity. Biology and physics blend naturally with chemistry and extend its scientific reach, from reactions within microscopic organisms to those in exploding stars in the outer reaches of the universe. Students of chemistry seek to understand the structures, properties and interactivity of molecules. This leads to revelations as to why things happen, be it a gaseous geyser on the surface of Mars or an accidental explosion in a fuel depot. Chemists become creators of new molecules, inventors of new reactions and materials, and guardians of our planetary environment.

Applied chemistry is the use of chemical knowledge to respond to the specific challenges generated by society, for example:

- Forensic chemists help solve crime and underpin a scientifically-based standard of justice
- Medicinal chemists seek to invent pharmacologically-active molecules that will be effective against infections and diseases such as cancer
- Environmental and analytical chemists police society and industry, monitoring pollution levels and alerting us to long-term risks to the ecosystem
- Chemical technologists satisfy our demand for fuels, new materials and large-scale production, covering a range of consumer items
- Cosmetic chemists create safe skin treatments, colourings and fragrances for the global, multimillion pound cosmetic industry

Professional Accreditations

All our MChem and MSci courses are accredited by the Royal Society of Chemistry. Graduates are eligible to apply for the status of Chartered Chemist, the qualification recognised in the EU for professional chemists.

All the BSc Honours degrees have received formal recognition from the Royal Society of Chemistry.

In addition, the MSci Applied Chemistry & Chemical Engineering is accredited by the Institution of Chemical Engineers, the MChem Forensic & Analytical Chemistry is accredited by the Forensic Science Society, and the MChem Chemistry with Teaching is accredited by the General Teaching Council (Scotland).

Such prestigious double accreditations are rare among UK chemistry degrees.

Choice and Flexibility in Chemistry

Our course selection gives you maximum choice and flexibility. The specialised courses give you the option of making a basic career choice from an early stage, while the 'classic' MChem Chemistry degree is recommended for those who want a complete coverage of the subject in order to keep a full range of career options. In addition, it is possible to switch between the different chemistry degrees within the first three years, and all the BSc schemes

In the 2012 *Times*, *Independent* and *Guardian* good university guides, Strathclyde Chemistry was ranked top in Scotland on the basis of satisfaction with the student experience.

are accessible from any of the MChem/MSci courses after entry.

Choosing between MChem/MSci & BSc (Honours)

MChem & MSci: These are high-level five-year courses which normally include a 12-month assessed and salaried industrial placement in Year 4. Their full professional accreditation is an excellent basis for a career in an application of chemistry, either in the UK or abroad.

BSc (Honours): These traditional four-year degrees with professional recognition are recommended if you want a sound scientific training and a measure of personal development, rather than a highly focused career in chemistry.

Industrial Placement

Our 12-month Industrial Placement Scheme is one of the longest-running and largest such schemes in the UK. We aim to place all our MChem students according to their subject specialisation and interest, either locally, within the UK, Europe or even further afield. You will be paid a competitive wage while on placement, and the industrial experience gained is an excellent basis for making career decisions. Industry values the additional experience and maturity that a placement provides and Strathclyde graduates are much in demand for this reason.

International Experience

You can complete one year of your degree studying in a selected European university. As well as gaining an in-depth knowledge of the practice of chemistry in another country, you have the opportunity to become fluent in a second language, often the key to suitable employment opportunities in Europe.

Bursary Support

AstraZeneca and GlaxoSmithKline, two of the world's leading pharmaceutical companies, offer a bursary scheme for undergraduates in chemistry. This scheme, which is normally based on your school, provides students with £500 a year for the length of the course. It also offers additional benefits, such as possible mentoring and work experience. Other opportunities include the Procter & Gamble bursary, which offers £1,000 a year and a one-year industrial placement.

Careers

An advanced knowledge of chemistry is required in so many scientific and technological areas that there is a continuous demand for good chemistry graduates. Our graduates compete very successfully for jobs in all branches of the chemical industry as a result of their recognised expertise in all the significant areas of the science. These are well-rewarded careers and usually provide plenty of scope for advancement into supervisory and management roles.

The chances of employment are increased substantially by the industrial placement and training in communication and other industry-related skills.

It is not so well known that there are also major opportunities for chemists in other areas. A study of chemistry helps the development of logical thought and numeric skills, and the ability to write accurate and concise reports. As a result, our chemists are in demand for employment in national and local government services, in hospitals and in education at all levels. Other employers

Chemistry, Pure & Applied

www.strath.ac.uk/chemistry

of our graduates over recent years have included the Inland Revenue, patent agents, accountancy firms, industrial consultancies and merchant banks.

All of our graduates, whatever the course option they have chosen, have an excellent record of finding work, outstanding among even the best UK university chemistry departments.

Teaching and Assessment
Teaching methods include traditional lectures and computer-assisted learning and problem-solving in small-group tutorials. Assessment is by end-of-semester exams and continual assessment in laboratory classes.

Degree Options
The descriptions for the following MChem/MSci courses are also largely appropriate for the similarly named BSc courses.
Visit **www.strath.ac.uk/chemistry/courses** for more information.

MChem Chemistry
This covers all the significant areas of chemistry and is the most adaptable of the MChem qualifications when choosing a career. Central to our philosophy is an enthusiasm to make chemistry work for society, hence the course coverage of so many applications of chemistry rarely taught elsewhere, our provision of 12-month industrial placements, strong links with industry and close relationships with professional bodies. Advanced classes include photochemistry, cage and cluster molecules, environmental chemistry, polymer chemistry and molecular catalysis.

From this degree you also have the option of changing to any of the following BSc (Honours) schemes during the first three years:

- Chemistry
- Chemistry with Analytical Chemistry
- Chemistry with Drug Discovery
- Forensic Chemistry

MSci Applied Chemistry & Chemical Engineering
(in collaboration with the Department of Chemical & Process Engineering)

Our increasing demand for synthetic products, manufactured without harm to our environment and biodegradable when discarded, poses major challenges to the chemical industry. The industry must also meet new demands for healthy food production, advanced biotechnological products and 'new generation' pharmaceuticals based on knowledge of our DNA.

This hybrid degree has been designed to fulfil the need for engineers and chemists who understand each other's skills and problems. Teaching and classes are divided equally between the Departments of Pure & Applied Chemistry and Chemical & Process Engineering (in the Faculty of Engineering). Both Departments have strong industrial links and long traditions of educating students specifically for the chemical industry. Extensive practical work reinforces the lecture material and encourages you to develop skills in communication, teamwork and the ability to work safely.

MChem Chemistry with Drug Discovery
(in collaboration with the Strathclyde Institute of Pharmacy & Biomedical Sciences)

This course is unique in Scotland. It is training a new generation of biologically and pharmaceutically-aware chemistry graduates who can design and synthesise molecules that have therapeutic actions within our bodies. Their mission is to invent more selective and safer drugs to fight and cure disease. There is an urgent need to keep society protected from threats, such as HIV, SARS, new types of flu and antibiotic-resistant 'superbugs' like MRSA. We also want to exploit fully the opportunities from identification of genes associated with a range of cancers, inherited disorders and agents of disease.

Core Chemistry classes are blended with specialist courses on disease targets, design of selectively-acting prototype drugs, synthetic and mimetic strategies in producing drug prototypes, and the refinement of activity

Student profile

Rachael Naismith & Lynn Shields

MSci Chemistry with Drug Discovery

Lynn and Rachael spent their industrial placement year working in Germany for Bayer CropScience.

Rachael: I would definitely recommend an overseas placement – it's an amazing opportunity to live and work in a new environment and meet lots of new people. The Erasmus bursary allows you to travel to lots of different cities and there's plenty of opportunity to learn a new language. The placement year allows you to put into practice the theory you learn in lectures and enables you to develop your practical and personal skills.

Lynn: I worked in the herbicidal research lab as a synthetic organic chemist which helped me pick up lots of new skills and knowledge, and the experience of working in a professional environment will help my future chemistry career. Living abroad I got to learn a new language and experience a completely different culture. I didn't speak the language but the company supplied lessons and my colleagues were keen to help me improve. When I wasn't working, I was able to explore Germany and the rest of Europe.

Chemistry, Pure & Applied

www.strath.ac.uk/chemistry

when a promising compound is identified. Case studies of well-known drugs are used to illustrate the principles. The Industrial Placement Scheme gives priority to work experience in the UK pharmaceutical industry.

The Department has special relationships with GlaxoSmithKline and AstraZeneca that enhance employment prospects after graduation.

MChem Chemistry with Teaching

(in collaboration with the Faculty of Humanities & Social Sciences)

The image of Chemistry is changing rapidly as its contribution to forensic science, health, technological advancement and environmental protection becomes more widely known and appreciated. Inspirational teachers convey the exciting challenges chemists face, and the necessity of continued discovery for the quality of our lives. Strathclyde is acknowledging the crucial importance of chemistry teachers by providing this undergraduate degree at a level higher than is available anywhere else in the UK.

The degree combines an RSC-accredited MChem Chemistry course with a professionally-accredited teacher training component (equivalent to a Professional Graduate Diploma in Education) that is taken during the fourth year. The dual accreditation means that as a graduate of this course, you will be able to choose and move between careers in secondary education and the chemical industry. Uniquely, the final-year research project can be concerned with educational approaches to chemistry, such as the development of practical experiments for use in schools.

Please see pg 74 for further information on degrees with Teaching.

MChem Forensic & Analytical Chemistry

(in collaboration with the Centre for Forensic Science)

Forensic and analytical chemists from Strathclyde are highly respected throughout the world for their abilities in this high profile and professionally demanding area of applied chemistry. Scientific facts are needed to decide environmental responsibilities and questions of criminal guilt or innocence fairly and accurately. The major challenges facing our graduates are to detect, collect, analyse and characterise the smallest traces of DNA, blood, fibre, explosive residue, pollutant or drug, and then to impartially assess the significance to the issue being investigated.

They may also have to appear in court or scientific meetings to justify techniques and findings to the public satisfaction. Staff in our Centre for Forensic Science are often called as expert witnesses in court and advise the forensic services in other countries, ensuring your teaching is founded upon the latest technological advances and the highest possible standards.

The course has dual professional accreditation from the Royal Society of Chemistry and the Forensic Science Society, making it unique in the UK.

The skills of analytical chemists are also increasingly in demand for checking the quality of our food and water, protecting the environment and monitoring industrial materials and processes. Another emerging area is the restoration of artworks and historical artefacts, proving that the career opportunities for a well-trained analytical chemist are both wide and interesting.

The industrial placement is concerned with the practice of analytical or forensic chemistry in commercial or judicial contexts.

Classes include Radiochemistry, Multivariate Analysis, Atomic Spectrometry, Toxicology and Alcohol, Fires and Explosives, Analysis of Trace Evidence, and DNA Profiling and Serology. Also included are courses on the legal aspects of Forensic Science, which can include mock trials and courtroom training.

Course Organisation (all degrees)
The basic template is as follows:
Year 1: Foundation classes in Chemistry and Mathematics, and Physics or Biology at introductory or advanced level. Classes in Chemical Engineering, Forensic Science and Pharmaceutical Science are available according to your degree choice. Chemistry practical classes help you to master the basic preparative and analytical skills. You can also choose elective subjects from other disciplines throughout the university, such as:

- Accounting
- Entrepreneurship
- Languages (French, Italian or Spanish)
- Electronics
- Computing
- Astronomy

Years 2 & 3: Fundamental Inorganic, Organic, Biological and Physical Chemistry, plus supporting classes. Choice of non-chemistry electives as in Year 1. Classes relating to the degree specialisations form a greater component depending on your course. Laboratory work increases and your practical skills are enhanced with computer modelling and group exercises to develop presentational skills.
Year 4: In Year 4, most MChem students undertake a salaried 12-month Industrial Placement. MChem Chemistry with Teaching students undertake teacher training, including teaching practice in schools, during that year, and MSci Applied Chemistry & Chemical Engineering students complete an Engineering Design project. BSc (Honours) students continue directly into their final year.

Final Year (Year 4 BSc (Honours)/Year 5 MChem/MSci): You specialise in the areas and applications that interest you most. The range of topics available is similar for both the MChem/MSci and BSc degrees, but fewer credits are required to gain the BSc. A research project enables you to use your practical skills and knowledge to solve a new chemical challenge.

BSc (Honours)

Business Information Systems

UCAS GN59

Computer Science

UCAS G400

Software Engineering

UCAS G600

Highers 1st sitting **BBBB**

Highers 2nd sitting **ABBB**

A Levels **BBC**

Computer Science with Law

UCAS G4M1

Highers 1st sitting **AABB**

Highers 2nd sitting **AABBC**

A Levels **ABB**

Mathematics & Computer Science

(delivered jointly with the Department of Mathematics & Statistics – see pg 106)

MEng

Computer Science

UCAS G401

Highers 1st sitting **AABB**

Highers 2nd sitting **AABBC**

A Levels **AAB**

MEng/BEng (Honours)

Computer & Electronic Systems
(delivered jointly with the Department of Electronic & Electrical Engineering – see pg 44)

For full entry requirements, please see table on page 114.

Contact
Admissions Team
t: +44 (0)141 548 3189
e: admissions@cis.strath.ac.uk

Computer & Information Sciences

www.strath.ac.uk/cis

The Department of Computer & Information Sciences maintains close contacts with many companies and organisations to ensure that its courses are relevant and up-to-date and to help students find high-quality industrial placements relevant to their studies.

Computing is a young, exciting and rapidly evolving subject and its influence in our everyday lives, for work, study and recreation, is enormous. It opens up a wide variety of career paths and provides you with a set of skills that will allow you to tackle major technical challenges with confidence and expertise.

All our courses have a strong practical component that complements the underlying theoretical foundations. A strong degree of commonality between the early foundational years makes it possible to transfer between courses. Excellent facilities for students within the Department include a number of well-equipped teaching laboratories, dedicated study space and a large social area. The Department has a reputation among its students for being friendly and for having a real community spirit. Staff are enthusiastic teachers and researchers, passionate about their subject and very approachable.

Industrial Placements
The MEng Computer Science and BSc (Honours) Software Engineering degrees have mandatory industrial placement periods, of three months and 12 months respectively. Starting at the end of Year 3 you work in industry as part of a software systems development team on real paid projects, before returning to your fourth year of academic study. Many students opt to stay in UK, while others have enjoyed placements in Holland, Germany, Switzerland, the USA and Japan. Students on the other degrees often find employment or internships in the IT industry over the summer vacations.

Accreditation
The British Computer Society (BCS) recognises our degrees as satisfying, either fully or partially, the academic requirements for registration as a Chartered IT Professional. Some of the degrees also meet, fully or partially, the Engineering Council academic requirements for registration as a Chartered Engineer and the Science Council academic requirements for registration as a Chartered Scientist.

Teaching and Assessment
The core principles covered in lectures develop essential skills and you will gain a sound understanding of the subject through hands-on exercises. Studying for all our degrees involves a series of challenges, starting with small programming tasks and progressing to significant team-based projects. From day one you will be working on specialist computer science subjects in small groups and during the course you will engage in the complete development cycle, from design to construction, of real software systems. Assessment is by a combination of exams and continual assessment.

Careers
Our graduates typically obtain high-level jobs working with clients and systems engineering issues. Most graduates progress rapidly in their chosen careers and follow their interests to become managers, technical specialists, independent consultants or employers themselves. Almost every enterprise of any scale makes use of the skills and the qualities developed in our degrees. Problem-solving, creative and personal skills are much sought after by industry and commerce in general. Well-rewarded employment opportunities range from research, development or consultancy with large multinationals, to software engineering in small start-up companies.

Computer & Information Sciences

MEng/BSc (Honours) Computer Science

Computer Science demands and develops a challenging mix of skills and abilities. These include a deep understanding of the technology; creativity and imagination tempered by logic and an attention to detail; and strong analytic and design skills combined with the aptitude to communicate effectively and work as part of a team. We produce graduates who not only understand new technologies but are able to influence their development.

Course Structure

Year 1: Classes cover foundation skills such as programming and computer systems organisation and look at the concepts of computation and information. Small-group tutorials cover personal and professional development issues and there is a choice of business or elective classes.

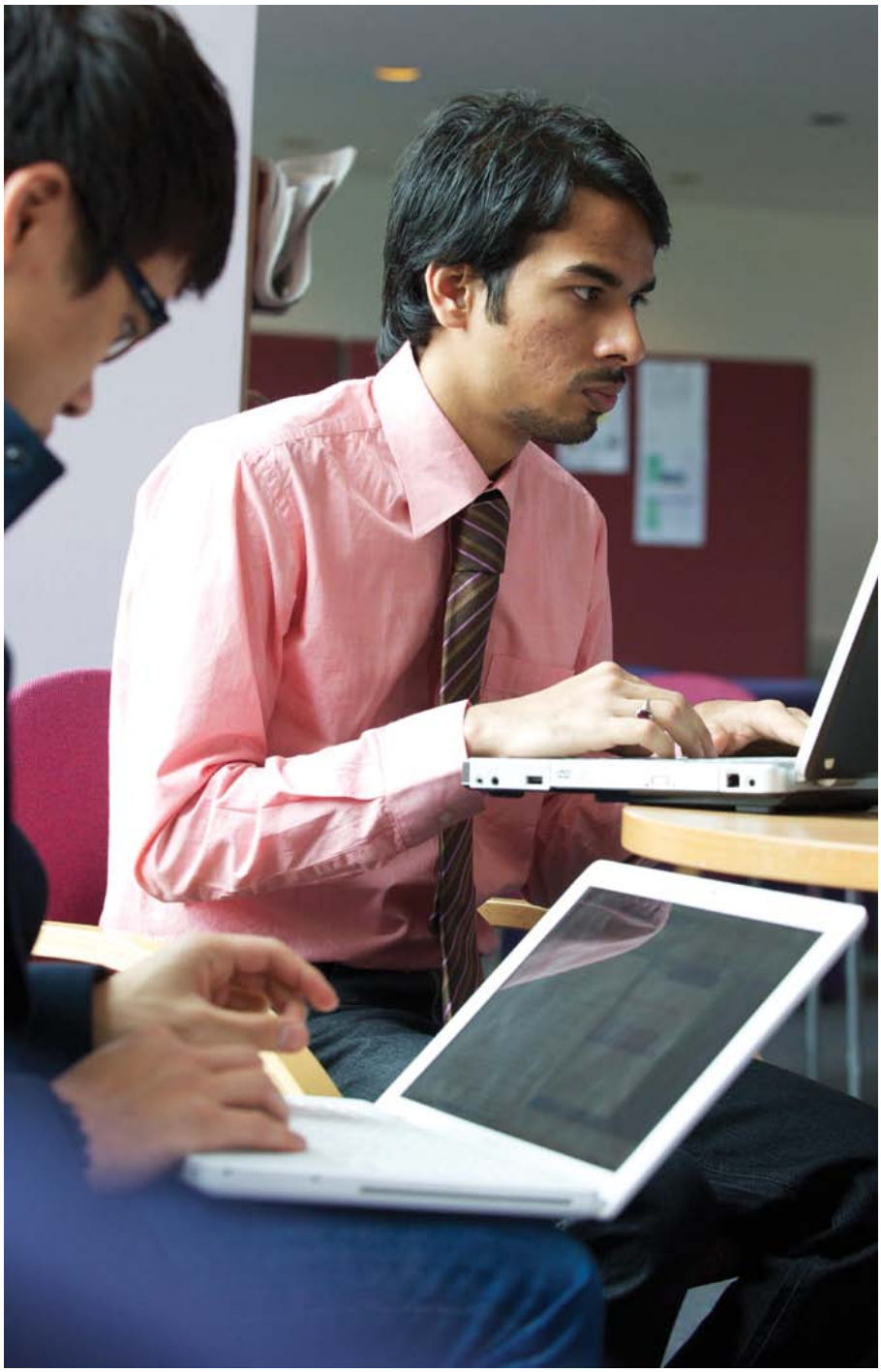
Year 2: Subjects covered include algorithms, databases, logic, the analysis and design of large systems, and how to ensure that the systems are usable. There is a significant individual programming project and further business or elective classes.

Year 3: Classes introduce more specialised areas such as communications, the means by which new programming languages can be designed, the variety of internal machine architectures, artificial intelligence, graphics, and the technologies behind web-based applications. There is a large group-based software development project. MEng students also extend their range of business and relevant legal knowledge.

Industrial Placement (MEng only): Between Years 3 and 4 of their degree, students on the MEng course undertake a 12-week Industrial Placement.

Year 4: You undertake a major individual practical computing project under the guidance of a member of staff, along with six final-year classes chosen from a range of specialist options.

Year 5 (MEng only): MEng students undertake a significant group project under the supervision of a member of staff. This project may draw on the industrial experience gained in the placement. In addition there is a further selection of specialist classes.



BSc (Honours) Software Engineering

Software engineers design and develop large, complex systems. These include the systems that are embedded within vehicles or phones, large-scale financial systems, web applications that demand privacy and security and medical or health-related applications. Software engineering requires a deep understanding of software, hardware and communications technologies, strong design and team skills, knowledge of the impact of different systems development strategies and an ability to communicate well with the users of a system. This course incorporates an industrial placement between Years 3 and 4.

Course Structure

Years 1, 2 & 3: These follow the same common core identified in the Computer Science degree.

Year 4: Optional classes build on the experience gained from the industrial placement and specialise in particular aspects of software engineering, such as high integrity systems development, or software architecture. In addition there is a significant individual software engineering project.

BSc (Honours) Computer Science with Law

Computers are increasingly used in the administration of justice to support sentencing and computer specialists are also becoming involved in legal issues such as freedom of information, copyright and software patents. The course is split approximately 70 per cent Computer Science to 30 per cent Law and graduates can choose to work as IT professionals in a software development, managerial or consultancy context. Those with good grades may go on to take a postgraduate LLB and enter the legal profession.

Course Structure

Year 1: Classes cover an introduction to law and the legal process, fundamental concepts in computer science and a broad introduction to the meaning of information.

Year 2: Law topics include the relationships between computers, society and the law. Computer science classes cover algorithms, databases and the design and analysis of systems.

Year 3: The course begins to introduce some specialisations such as software protection and liability on the law side and communications, professional issues and human computer interaction, on the computer science side. There is a significant group software development project plus the option to take other computer science or law classes.

Year 4: An individual project combines the study of Computer Science and Law. Students also choose six classes from the range of specialist Honours options available in both subject areas.

BSc (Honours) Business Information Systems

A combination of sound technical knowledge and an understanding of the operating principles of businesses is highly valued in organisations. The design of successful software systems often requires not only good computing knowledge, but also an understanding of the business process that the system is intended to support and an ability to talk to the users in their own terms. Graduates of this degree have strong computing and software development skills along with an understanding of the business context in which software systems are typically deployed, making them very attractive to potential employers. Some 60 per cent of study is devoted to core elements of computing, with the 40 per cent of business subjects being drawn from finance, management science and marketing.

Course Structure

Year 1: Business classes include accounting, management science and marketing. The computer science classes introduce the foundations of programming and computer systems and explore the ideas of computation and information.

Year 2: Business classes include finance, market research, and information systems and the knowledge economy. Computer Science classes include databases, systems analysis and design and an individual programming project.

Year 3: Business classes continue with finance, management science and strategic marketing management. Computing classes cover subjects such as communications, web applications engineering, human computer interaction and a significant group software development project. Students can also take optional computer science or business classes.

Year 4: An individual practical project combines students' skills in computer science with modern business knowledge. Six Honours classes are divided equally between computing and business subjects.

MEng/BEng (Honours) Computer & Electronic Systems

(delivered jointly with the Department of Electronic & Electrical Engineering)

Please see pg 44 for course information.

BSC (Honours) Mathematics & Computer Science

(delivered jointly with the Department of Mathematics & Statistics)

Please see pg 106 for course information.

Mathematics & Statistics

MMath

Mathematics

UCAS G101

Mathematics & Statistics

UCAS G101

Highers 1st sitting **AAAB**

Highers 2nd sitting **AAABBB**

A Levels **ABB**

BSc (Honours)

Mathematics

UCAS G100

Mathematics & Statistics

UCAS G100

Mathematics & Computer Science

UCAS GG14

Mathematics & Physics

UCAS GF13

Mathematics with Teaching

UCAS G1XC

Mathematics, Statistics & Economics

UCAS G1L1

Mathematics, Statistics & Finance

UCAS GN33

Mathematics, Statistics & Management Science

UCAS GN12

Highers 1st sitting **ABBB**

Highers 2nd sitting **AABB**

A Levels **BBB**

Mathematics, Statistics & Accounting

UCAS GN34

Highers 1st sitting **AAAA**

Highers 2nd sitting **AAAABB**

A Levels **AAB**

For full entry requirements, please see table on page 115.

Contact
Dr Louise Kelly
t: +44(0)141 548 3659
e: louise.kelly@strath.ac.uk

The Department of Mathematics & Statistics emphasises the application of mathematics and statistics to the real world, meaning that you will learn the skills that employers need. Our flexible degree structure means you can transfer between courses and there are opportunities to study abroad.

Mathematics is a living subject, constantly changing and evolving. It is central to modern society, underpins scientific and industrial research and development and is key to our economy.

Statistics is the area of mathematics we use to explore and try to explain the uncertain world in which we live. You may be familiar with the use of statistics in opinion polls and market research, but it is also central to the manufacture and testing of many products, and, in particular, to showing that modern drugs used in the treatment of disease in humans and animals are effective and safe.

The Department has internationally-renowned research groups in areas such as industrial mathematics, numerical analysis, liquid crystal theory, mathematical biology and the application of statistics to public health and veterinary science. Our courses are modular and credit-based. The flexible degree structure means you can transfer between courses (with the exception of transfer to the degree with Accounting). Those who do well on the BSc Mathematics course can transfer to the MMath.

Professional Accreditation
Most of our Honours degree courses attract professional recognition enabling graduates to become members of appropriate professional societies or bodies.

Teaching and Assessment
Traditional lectures are still the norm within Mathematics, supplemented by small-group tutorials and problems classes and clinics. A web-based learning environment allows access to class materials and supporting information. Training in the use of powerful software packages for tackling mathematical problems and analysing statistical data is also given. Much of the assessment is by formal written exams, though classes in statistics and numerical analysis feature coursework. In the degree with Teaching, education classes are assessed by coursework and critical review of teaching practice.

Careers
Graduates in Mathematics & Statistics enjoy one of the highest employment rates of any degree discipline and there is a wide choice of employment in the manufacturing and service industries, the actuarial, accountancy and banking professions, commerce and government, consultancy and education. Our graduates go on to become investment analysts, numerical analysts, mathematical modellers, statisticians, management scientists, actuaries, teachers and market analysts.

Graduates in Mathematics & Computer Science are well prepared for careers involving theoretical computer science or programming of advanced scientific problems including cryptography. Graduates in Mathematics & Physics are well placed to enter careers in scientific and industrial research and development.

MMath/BSc (Honours) Mathematics/ Mathematics & Statistics
Mathematics is everywhere: weather forecasting, automatic teller machines, secure websites, electronic games, liquid crystal displays, statistical data analysis, opinion polls. Our course emphasises the great applicability of mathematics to solving practical problems – as well as its beauty. The courses are accredited by the Institute of Mathematics and its Applications. The Royal

Statistical Society recognises the Mathematics & Statistics course.

Course Structure
BSc (Honours)
In addition to the study of core mathematical methods, Years 1 and 2 introduce Applied Analysis, Mechanics, Numerical Analysis and Statistics. You also choose elective classes. In later years, you can choose from a range of Mathematics and Statistics classes from one or more of the specialist application areas which best suit your career interests. Part-time study is also possible. As part of the final Honours year, you will undertake a research project that culminates in a written report and an oral presentation.

Mathematics & Statistics
If you undertake a statistical project and take half of your third and fourth-year classes in Statistics you may choose to graduate with the degree title of BSc (Honours) in Mathematics & Statistics. Statistics classes include data analysis, time series, stochastic processes and probability. Note that initially students are registered for the BSc in Mathematics, transferring at the start of Year 4.

MMath
The MMath in Mathematics is an enhanced undergraduate degree which lasts five years and is more challenging than the BSc Honours degree in Mathematics. The MMath provides a thorough training in the skills required for employment in areas which demand a strong mathematical background, such as industrial research and development, telecommunications or consultancy. Years 1 to 4 of the MMath are similar to the BSc Honours in Mathematics, but MMath students are expected to perform consistently at a higher level. In the final (fifth) year of the MMath course, you take further classes, plus project work (which could be carried out as an industrial placement). Transfer is possible between the MMath course and the BSc Honours course at all stages, subject to satisfactory performance. As with the BSc (Honours) degrees, it is possible to elect to graduate with the title MMath in Mathematics and Statistics if you have included statistics classes and projects in later years.

BSc (Honours) Mathematics with Teaching
(in collaboration with the Faculty of Humanities & Social Sciences)

This joint Honours degree covers the curriculum of the BSc Honours Mathematics degree, plus the education theory and classroom experience required for recognition by the General Teaching Council for Scotland. Graduates gain a joint

Mathematics & Statistics

www.strath.ac.uk/mathstat

Honours degree along with a professional teaching qualification in four years and will be qualified to enter the probationary year as teachers of mathematics in Scottish secondary schools without having to undergo further graduate study for a teaching qualification.

Note: Students may be registered on the BSc (Honours) in Mathematics course for the first two years, with transfer to the Mathematics with Teaching course guaranteed (subject to progress requirements) for the start of Year 3. In addition, students on the BSc in Mathematics may apply to transfer to the Mathematics with Teaching course at the end of Year 2, subject to availability of places and satisfying the requirements for undertaking an Initial Teacher Education course.

Course Structure
In Years 1 and 2, you follow the same curriculum as the BSc (Honours) in Mathematics. Classes in Mathematics and Education, together with School Experience, are covered in Years 3 and 4. The first semester of Year 4 is spent almost entirely on Mathematics-based classes. The final semester is devoted to topics in Education and School Experience. Education classes start in late August at the beginning of Year 3. Should you realise that teaching is not for you, transfer to the degree course in Mathematics is possible prior to the start of Year 4.

Part-time study of the curriculum of Years 1 and 2 is possible. For further information on degrees with Teaching please see pg 74.

BSc (Honours) Mathematics & Computer Science

(in collaboration with the Department of Computer & Information Sciences)

Computers are now an essential part of any modern business. However, problems in the business world must often be formulated initially using mathematics before the computer can be of use. This degree will give you a blend of skills required to tackle these problems in the business environment.

Computer Science requires the application of logical thought processes to translate tasks in the real world into code that a computer can handle. The logical processes developed and carried out in Mathematics and the classes in Discrete Mathematics, Numerical Analysis and Coding Theory provide a good background for this. In addition to Programming, classes in Algorithms & Complexity, Databases, Graphics and Computability & Complexity may also be taken.

Course Structure
The two disciplines are studied equally during Years 1 and 2, but the flexible nature of this joint degree allows you to take up to two-thirds of your classes in either Mathematics or Computer Science in Years 3 and 4. The final year project may be carried out in either subject. Honours graduates who opt for a sufficient number of computing classes may seek accreditation from the British Computer Society.

BSc (Honours) Mathematics & Physics

(in collaboration with the Department of Physics)

Physics is used to help us answer some of the fundamental questions which arise in the world around us. Once we understand the processes involved in these problems, we need to translate our ideas into Mathematics so that an answer can be sought.

Course Structure
In Years 1 and 2, you take basic classes in both disciplines. In Years 3 and 4, you can choose from the wide range of Mathematics and Physics classes available. For example, it is possible to focus on an area in computational physics, or lasers and optics, or theoretical physics, such as quantum theory, while still developing mathematical skills. The final-year project may be undertaken in either subject. Part-time study is possible.

BSc (Honours) Mathematics, Statistics and a Business Subject: Accounting, Economics, Finance or Management Science

These four joint degrees, offered in collaboration with Departments in the Strathclyde Business School, bridge the gap between Business subjects, Mathematics and Statistics. You will have the opportunity to develop thorough mathematical and statistical expertise at the same time as broadening your skills base in the largest Business School in Scotland (and one of the largest in Europe). There is a strong emphasis on statistical techniques in data analysis and on the use of mathematical models.

Accounting: If you specialise in Accounting you will have the opportunity to complete a fully-accredited Accounting degree leading to training for membership of the Institute of Chartered Accountants in Scotland.

Economics: The development of Economics as a quantitative science, along with the increasing use in Economics of mathematical models and techniques, means there is a growing need for economists with training in Mathematics, and for mathematicians with a good grasp of economic principles.

Finance: Employers in the financial sector frequently ask for numerate graduates who have experience in the development and use of mathematical models, as well as a financial or accounting background. There are very close links between statistics and the analysis of financial data, and much investment analysis by fund managers involves the use of statistical modelling. This course provides a good basis for entering the actuarial profession.

Management Science: Management Science, also known as Operational Research (OR), is concerned with applying quantitative techniques and the modelling of business problems to management decision-making and planning. Management scientists must have a good awareness of how businesses operate and understand the development and application of tools used to help operate businesses successfully.

Course Structure
Mathematics and Statistics account for at least half of each course, with the remainder devoted to the relevant business subject. Flexibility is a key feature. You will have considerable opportunity to choose the particular areas of Mathematics, Statistics, Accounting, Economics, Finance or Management Science in which you wish to specialise.

MPharm

Pharmacy

UCAS B230

Higher/A Levels **AABB/AAB**

For full entry requirements, please see table on page 116.

Contact
Dr John Connolly or Carol Barnett
t: +44 (0)141 548 2863/2654
e: MPharm@strath.ac.uk

Pharmacy

www.strath.ac.uk/sipbs

The accredited MPharm programme is delivered by the School of Pharmacy, within the Strathclyde Institute of Pharmacy and Biomedical Sciences. The School and Institute enjoy an international reputation for excellence in teaching and research with strong links to both the National Health Service and industry.

Pharmacists are experts in medicines who work alongside doctors, nurses and dentists as part of the healthcare team. To become a qualified pharmacist in the UK, it is necessary to successfully complete an MPharm degree which has been accredited by the Royal Pharmaceutical Society of Great Britain (RSPGB). After a year of paid Pre-Registration training you are eligible to sit the professional exams of the RSPGB. If you are successful you can apply for registration as a member of the Society (MRPharmS) and become an independent practising Pharmacist.

Course Structure
The MPharm degree is an integrated, full-time four-year undergraduate programme. As the degree leads to a Master's qualification, the workload is somewhat higher than that of a BSc Honours degree and the pass mark in Higher Level classes is 50%. Although the following topics are taught in individual classes, the following themes run throughout the course:

- **Biopharmacy** concerns the application of chemistry and the biological sciences to the processes of drug discovery, development and formulation. Biopharmacy also investigates how the chemical nature of drugs determines their distribution and metabolism within the body.
- **Pharmacy Practice and Pharmaceutical Care** involve study of the professional aspects of pharmacy in hospital and community practice. This includes the legal framework governing the supply and use of medicines, their use by patients and public health issues.
- **Formulation, Manufacture and Testing** concerns the study of formulation, good manufacturing practice, quality control and quality assurance of sterile and non-sterile medicines. You will follow the entire process of the manufacture of medicines using a 'powder to product' approach.
- **Physiology** concerns the study of body function in health, and how this can be compromised in disease states such as heart failure, arthritis, asthma and Alzheimer's Disease.
- **Pharmacology** is the study of how drugs act on the cells and organs of the body, and the individual proteins and molecules with which they interact. The depth of study also progresses throughout the course for all subjects.

Year 1: You will study foundation level Chemistry, Mathematics, Physiology, Biopharmacy, Bioscience and Foundation Pharmacy. You also choose an elective from the range of courses offered across the University.

Year 2: Topics include Statistics, Biopharmacy, Pharmacy Practice, Drug Treatment of Body System Diseases, Health Promotion and Complementary Medicines, Fundamentals of Pharmacology, Microbiology and Physical Pharmacy.

Year 3: You progress to an in-depth study of Pharmacy Practice, Formulation, Manufacturing and Testing, Biopharmacy, Drug treatment of Neural Systems Diseases and Infectious Diseases.

Year 4: You will be introduced to research-level study and undertake advanced classes in Biopharmacy and Drug Delivery, Clinical Pharmacology and Prescribing, Therapeutics and new approaches to Drug Discovery. You also

Pharmacy

www.strath.ac.uk/sipbs

undertake case studies which involve meeting with patients and reviewing aspects of their pharmaceutical care, as well as laboratory or field-based research projects, chosen from a variety offered by research groups within the School.

Teaching and Assessment
Teaching approaches include lectures, tutorials, laboratory work, library projects, oral discussions and presentations. Considerable use is made of computer-assisted learning using a wide range of software, including formative multiple choice questions and sophisticated simulations which have been developed in-house over several years. Working pharmacists (teacher/practitioners) also contribute to the course, ensuring a sound practical as well as theoretical training in the most appropriate use of medicines. You will participate in hospital placements and GP visits as part of the course and you may have the opportunity to carry out summer research projects.

Methods of assessment vary according to the subject and skills being taught and include formal written exams, multiple choice questionnaires, oral presentations, dissertations, project reports and practical tests.

Careers
Pharmacy graduates currently enjoy excellent employment prospects with attractive starting salaries. The majority are employed in community pharmacies, or in hospital pharmaceutical departments.

However, graduate pharmacists also follow careers in research, manufacture, analytical control, marketing and administration within the pharmaceutical industry. Others teach in Schools of Pharmacy or hold administrative and scientific posts in the National Health Service. Graduates may also pursue a career in medical writing, clinical drug trials and medical sales.

The Pharmacy degree programme at Strathclyde, heavily underpinned by its research and professional base, provides students with the necessary background to enable graduates to enter the full spectrum of these pharmaceutical careers. The Jobs and Classified section of The Pharmaceutical Journal gives an illustration of these (see **www.pharmj.com**).

Physics

www.strath.ac.uk/physics

MPhys

Physics

UCAS F303

Higher/A Levels **AAAB/ABB**

BSc (Honours)

Physics

UCAS F300

Physics with Teaching

UCAS F3XC

Higher/A Levels **ABBB/BBB**

For full entry requirements, please see table on page 117.

Contact
Dr Nigel Langford
t: +44 (0)141 548 3077
e: study@phys.strath.ac.uk

Our courses develop a sound technical knowledge and a range of problem-solving, numerical and analytical skills, all of which will equip you to work in sectors ranging from academic and industrial research through to areas as diverse as engineering, medical physics, patent law and financial management. All our courses are accredited by the Institute of Physics.

Physics seeks to understand natural phenomena through the application of a small set of fundamental laws. Knowledge of these laws allows physicists to work not only in traditional areas of physics but also, and more importantly, on multidisciplinary problems that will impact on the 'grand challenges' facing society in the next decades. These range from new techniques for the production of and the efficient use of energy and the development of technology and non-invasive treatments to address the issues facing an ageing population. Solutions to these issues are only possible if there is a detailed knowledge of the fundamental processes underpinning the problems.

We offer degrees at both MPhys and BSc (Honours) level and all students are admitted as potential Honours students. The MPhys degree has a five-year curriculum and is the ideal preparation for those who want to pursue a career in research, be it in industry or at PhD level. The BSc Honours degrees last for four years and are broad-ranging degrees. Transfer between the degrees is possible up to the end of second year.

Throughout our degrees there is a strong emphasis on laboratory work, which helps you to develop a sound understanding of the physics of experimental measurement and to acquire expertise with a wide range of instrumentation. Your training in laboratory work is completed by a research project carried out in an up-to-date research lab, attached to one of the Department's research groups (**www.strath.ac.uk/physics/research**). This allows you to benefit directly from our lively and diverse research environment.

Careers

Physics is of major importance to the economies of both Scotland and the UK and our graduates are prepared for a wide variety of stimulating and interesting careers. A recent survey (Institute of Physics 2009) has shown that physicists receive, on average, significantly higher average salaries than graduates from other disciplines. They are highly sought after by employers as their logical thought, numeracy and analytical skills are much valued by both the private and the public sectors. Over 90% of our graduates either continue to MSc or PhD degrees in Physics and related fields or find employment in industry.

Employment opportunities are not restricted to science and technology, many physicists find jobs in engineering related industries and areas such as accountancy, the oil industry, actuarial and insurance industry, financial and asset management, patents and publishing.

Visit **www.strath.ac.uk/physics/alumni** for career profiles of some of our graduates. You will see that a physics degree is indeed a 'degree of opportunity'.

Teaching and Assessment

With many academic staff at the forefront of their research fields, you will find that the subjects you study at Strathclyde contain details of the latest developments in physics, providing you with an up-to-date curriculum.

Our teaching is provided primarily through lectures and practical work. Lecture-based classes are supported by tutorials and coursework and exemption schemes operate for many classes. Practical work includes both experimental and computational work.

Physics

www.strath.ac.uk/physics

In tutorials and practical work students get one-to-one support. In addition to thinking and analytical skills you will have the opportunity to develop communication skills through presentations of laboratory and project work.

Physics

MPhys

The MPhys is an enhanced degree that teaches physics to a greater depth and breadth than the corresponding BSc Honours degree. The MPhys is aimed at those who wish to pursue a professional career in physics with classes designed to meet the needs of the professional physicist. Through a choice of options in Years 4 and 5 you have the chance to focus your studies on a specific area, such as theoretical and computational physics, plasma physics or laser physics. In the final two years of the course you undertake a project in the department, supervised by a member of staff in their research labs.

BSc (Honours)

The broad-based BSc (Honours) in Physics covers a wide range of topics in physics and emphasises modern physical principles. You will develop core skills in mathematics and physics that will allow you to gain a solid understanding of the fundamental aspects of physics. In the fourth year of the course you select a final-year project that is undertaken in the research labs of a member of staff in the department.

BSc (Honours) Physics with Teaching

(in collaboration with the Faculty of Humanities & Social Sciences)

This joint Honours degree integrates physics with teaching methods and practice to prepare graduates to be teachers of Physics in secondary schools. In addition to the core syllabus of the MPhys degree, you will study curriculum development and acquire the necessary hands-on classroom experience required for General Teaching Council recognition. Please see pg 74 for further information on degrees with Teaching.

Course Structure

Year 1: This year is common to all our degree courses. You will study classes in Physics and Mathematics (the 'language' of physics), which lay the foundations for future fundamental and applied work. In Physics classes you will cover mechanics, waves and optics, electromagnetism and quantum physics, together with experimental physics. To support the experimental physics class you spend one afternoon each week in the teaching laboratories. If you have a pass in Advanced Higher Physics at Grade B or better you will be given exemption from the core first-year class Mechanics, Optics and Waves. You also choose electives from the wide range of classes offered across the University.

Year 2: The subjects studied in first year are expanded and new material is introduced including classes in Solid-state Physics and Computational Physics. The laboratory work becomes more sophisticated, recognising your growing maturity as a physicist.

Years 3 & 4: The final years of your degree contain compulsory and optional classes. Compulsory classes include the mainstays of any Physics degree: Quantum Physics; Statistical Mechanics; Electromagnetism; and Solid-state physics. Optional classes are tailored to meet the research interests of the Department and include classes in Semiconductor Physics, Quantum Optics, Photonics, Nanoscience, Plasma Physics and Theoretical Physics.

The MPhys and BSc (Honours) Physics courses include a major research project that is directed by a member of the academic staff. Physics with Teaching students spend the final semester of fourth year covering education-based courses that include extended periods of teaching practice in schools.

Year 5 (MPhys only): The final year of the MPhys involves in-depth study of a broad range of topics in Physics, including training in research techniques. The curriculum of this final year has been designed to encourage individual flexibility.

International and Industry Experience

The Department's links with European and North American universities give you the chance to undertake part of your study in locations such as France, Germany or Canada. We also offer students the chance to work in industry during the summer break between third and fourth year.

BSc (Honours) Mathematics & Physics

(in collaboration with the Department of Mathematics & Statistics)

Please see pg 106 for course information.

Advanced Higher Entry and Entry Requirements

The Department strongly recommends that applicants consider taking Advanced Higher Physics and Mathematics. These subjects form a solid foundation for first-year study.

The Department recognises that there is a degree of overlap between the material taught in the Advanced Higher Physics and Mathematics courses and its own first-year course. As a result direct entry to second year of the MPhys degree may be offered to applicants with the following: a combination of grades A and B from both Advanced Higher Physics and Advanced Higher Mathematics together with two other Higher subjects (excluding Higher Physics and Mathematics) at grades A and B. Alternatively, if you are sitting three Advanced Higher subjects, including Physics and Mathematics, then we will accept a combination of grades ABB together with an additional Higher (again excluding the subjects you are taking at Advanced Higher) at grade B.

If you do not meet our minimum entrance requirements at the end of 5th year and take Advanced Higher subjects, the Department will make a conditional offer for first year entry and this may contain conditions based on the Advanced Higher subjects that you are taking. The Department assumes that, for the same subject, an Advanced Higher at grade B is equivalent to a Higher at grade A.

Student profile

Robert Cameron

Year 5 MSci Physics

Strathclyde was recommended to me as a university which struck a solid balance between theory, experiment and application. In the summer between third and fourth year, I worked in Graz, Austria, where I did theoretical and computational Physics (studying quantum mechanical models of magnetic materials and metals). As well as being funded by ERASMUS, the University provided me with a grant, and my total expenses were covered. During my time in Austria, I made some academic contacts. I have been invited to return for another placement.

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Biological & Biomedical Sciences			
BSc (Honours) Biochemistry & Immunology Biochemistry & Microbiology Biochemistry & Pharmacology Immunology & Microbiology Immunology & Pharmacology Biomedical Science Forensic Biology	**Highers** 1st sitting **ABBB** or **AABC** 2nd sitting **AABB** or **AAAC** **Advanced Highers** Year 2 entry: **BB** **A Levels** Year 1 entry: **BBB** Year 2 entry: **ABB** **IB: 28** **HND** First year entry possible with relevant HNC, **B** in Graded Unit; second year entry possible with relevant HNC, **A** in Graded Unit or relevant HND, **BBB** in Graded Units; third year entry possible with relevant HND, **AAB** in Graded Units. **Irish Leaving Certificate** Subjects and grades as for Highers	Year 1 entry: two Sciences, including **Biology** or **Chemistry** Higher **(B)** or A Level **(B)** or IB **(HL5)** **Chemistry** (if not at Higher) Standard Grade **(2)** or Int 2 **(B)** or GCSE **(B)** or IB **(SL6)** **Maths** Standard Grade **(2)** or Int 2 **(B)** or GCSE **(B)** or IB **(SL6)** **English** Standard Grade **(2)** or Int 2 **(B)** or GCSE **English Language (B)** or **English Literature (B)** or IB **(SL6)** Year 2 entry: Adv Higher **Chemistry** and **Biology (B)**, in addition to requirements for Year 1 entry above; A Level **Chemistry** and **Biology** (one at **A** & one at **B**), plus **Maths** and **English** requirements as above	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry not accepted **Contact** Dr Charles Kennedy **t:** +44 (0)141 548 2202 **e:** sipbs-biomed@strath.ac.uk
MSci Biochemistry Immunology Microbiology Pharmacology	**Highers** 1st sitting **AABB** or **AAAC** 2nd sitting **AAAB** or **AABBC** **Advanced Highers** Year 2 entry: **AB** **A Levels** Year 1 entry: **ABB** Year 2 entry: **ABB** **IB: 32** **HND** First year entry possible with relevant HNC, **A** in Graded Unit or HND with **BBB** in Graded Units: second year entry possible with relevant HND with **AAB** in Graded Units; third year entry possible with relevant HND with **AAA** in Graded Units relevant HNC, **B** in Graded Unit; second year entry possible with relevant HNC, **A** in Graded Unit or relevant HND, **BBB** in Graded Units; third year entry possible with relevant HND, **AAB** in Graded Units. **Irish Leaving Certificate** Subjects and grades as for Highers	Year 1 entry: **Chemistry** and **Biology** Higher **(B)** or A Level **(B)** or IB **(HL6)** **Maths** Standard Grade **(2)** or Int 2 **(B)** or GCSE **(B)** or IB **(SL6)** **English** Standard Grade **(2)** or Int 2 **(B)** or GCSE **English Language (B)** or **English Literature (B)** or IB **(SL6)** Year 2 entry: Adv Highers **Chemistry** and **Biology (B)**, in addition to requirements for Year 1 entry above; A Level **Chemistry** and **Biology** (one at **A** & one at **B**), plus **Maths** and **English** requirements as above	

Course	Minimum Grades	Required Subjects	Additional Information
Chemistry, Pure & Applied			
MChem Chemistry (Also entry route for BSc (Honours) Chemistry; Chemistry with Analytical Chemistry; Chemistry with Drug Discovery; Forensic Chemistry)	**Highers** **BBBB** or **ABBC** or **AAB** **A Levels** Year 1 entry: **BBC*** Year 2 entry: **BBC** **IB: 30** **HNC/HND** First year entry possible with relevant HNC, **B** in Graded Unit; second year entry possible with relevant HND, **BBB** in Graded Units **Irish Leaving Certificate** **BBBBB**; subjects as right	**Chemistry** Higher or A Level or IB HL **Maths** Higher or A Level or IB HL **Physics** or **Biology**/**Human Biology** Higher or A Level or IB HL **English** preferred as fourth subject at Higher Advanced Higher **Chemistry** and **Maths** recommended for S6 study	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade C, this would normally be counted as a grade A in that subject towards the overall required grades. **Deferred Entry** Deferred entry accepted ■ All students are admitted as prospective MChem / MSci Honours students and can switch to the BSc schemes later ■ UCAS personal statements and references will also be taken into account * Those with A Levels, Advanced Highers or IB HL in only two of the preferred subjects will be considered for first year entry; good Advanced Higher grades can qualify for first year course and exam exemptions ⁜ General Teaching Council minimum English qualifications requirement; applicants offering higher grades are likely to be given preference in the selection process **Contacts** Roslyn Nimmo (Admissions Secretary) **t:** +44 (0)141 548 2282 **e:** roslyn.nimmo@strath.ac.uk Dr Mark Dufton (Academic Selector) **t:** +44 (0)141 548 2440 **e:** mark.dufton@strath.ac.uk Dr Debbie Willison (Head of Teaching) **t:** +44 (0)141 548 3281 **e:** d.willison@strath.ac.uk
MChem Forensic & Analytical Chemistry Chemistry with Drug Discovery Chemistry with Teaching	**Highers** **AABB** or **AAAC** **A Levels** Year 1 entry: **ABB*** Year 2 entry: **ABB** **IB: 34** **HNC/HND** First year entry possible with relevant HNC, **A** in Graded Unit; second year entry possible with relevant HND, **AAA** in Graded Units **Irish Leaving Certificate** **AABBB**; subjects as right	**Chemistry** Higher or A Level or IB HL **Maths** Higher or A Level or IB HL **Physics** or **Biology**/**Human Biology** Higher or A Level or IB HL **English** preferred as fourth subject at Higher; for Chemistry with Teaching ⁜ Higher **(C)** or GCSE English Language **(C)** and English Literature **(C)** or IB **SL6** Advanced Higher **Chemistry** and **Maths** recommended for S6 study	
MSci Applied Chemistry & Chemical Engineering	**Highers** **AABB** or **AAAC** **A Levels** Year 1 entry: **ABB*** Year 2 entry: **ABB** **IB: 34** **HNC/HND** First year entry possible with relevant HNC, **A** in Graded Unit: second year entry possible with relevant HND, **AAA** in Graded Units **Irish Leaving Certificate** **AABBB**; subjects as right	**Chemistry** Higher or A Level or IB HL **Maths** Higher or A Level or IB HL **Physics** or **Biology**/**Human Biology** Higher or A Level or IB HL **English** preferred as fourth subject at Higher **Physics** is strongly preferred with **Chemistry** & **Maths** Advanced Higher **Chemistry** and **Maths** recommended for S6 study	

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Computer & Information Sciences			
BSc (Honours) Computer Science Business Information Systems Software Engineering	**Highers** 1st sitting **BBBB** or **ABBC** 2nd sitting **ABBB** or **BBBBC** **A Levels** Year 1 entry: **BBC** Year 2 entry: **ABC** **IB: 32** **HNC/HND** First year entry possible with relevant HNC, **B** in Graded Unit; second year entry possible with relevant HND, **Bs** in Graded Units; second year entry to **Business Information Systems** not offered. **Irish Leaving Certificate** Subjects and grades as for Highers	First year entry: **Maths** Higher recommended Second year entry: **Maths** A Level **(B)** or IB **(HL5)**, **Computing** A Level **(B)** or IB **(HL5)**; Advanced Higher **Maths** and **Computing (AB or BA)**	**Advanced Highers** An Advanced Higher is given a greater credit than the Higher, for example Advanced Higher **B** is counted as an **A** towards required grades. Both Advanced Highers and Highers are counted towards the grades required even when you have both in a subject. **Deferred Entry** Deferred entry not accepted ■ Transfer to MEng is possible for students who perform well in first year of BSc (Honours) Computer Science or BSc (Honours) Software Engineering **Contact** Admissions Team **t:** +44 (0)141 548 3189 **e:** admissions@cis.strath.ac.uk
BSc (Honours) Computer Science with Law	**Highers** 1st sitting: **AABB** or **BBBBB** 2nd sitting: **AABBC** or **ABBBB** **A Levels** Year 1 entry: **ABB** Year 2 entry: not offered **IB: 34** **HNC/HND** First year entry possible with relevant HNC, **B** in Graded Unit plus Higher **English**; second year entry is not offered **Irish Leaving Certificate** Subjects and grades as for Highers	**Maths** recommended at Higher or A Level or IB (HL) **English** Higher **(B)** or GCSE **English Language (B)** and **English Literature (B)**	
MEng Computer Science	**Highers** 1st sitting: **AABB** or **BBBBB** 2nd sitting: **AABBC** or **ABBBB** **A Levels** Year 1 entry: **AAB** Year 2 entry: not offered **IB: 36** **HNC/HND** Entry is to BSc (Honours) Computer Science or BSc (Honours) Software Engineering in the first instance **Irish Leaving Certificate** Subjects and grades as for Highers	**Maths** Higher **(B)** or AS Level **(B)** or IB **(HL5)** A Level **Maths** and/or **Computing** recommended	

Course	Minimum Grades	Required Subjects	Additional Information
Mathematics & Statistics			
BSc (Honours) Mathematics Mathematics & Statistics Mathematics & Computer Science Mathematics & Physics	**Highers** 1st sitting: **ABBB** or **ABBCC** 2nd sitting: **AABB** or **ABBBC** **A Levels** Year 1 entry: **BBB** Year 2 entry: **AAB** **IB: 32** **HNC** First year entry possible with relevant HNC with strong mathematical content, **B** in Graded Unit **Irish Leaving Certificate** Subjects and grades as for Highers, two sittings standard	First year entry: Maths Higher **(A)** or A Level **(B)** or IB **(HL6)**; for Maths & Physics – Physics Higher **(B)** or A Level **(B)** or IB **(HL6)** Second year entry: Maths A Level **(A)**; for Maths & Physics – Maths & Physics A Level **(A)**	**Advanced Higher** An Advanced Higher is given a greater credit than the Higher. Where you have both qualifications in one subject, the Advanced Higher replaces the Higher. Where you have an Advanced Higher at grade B, this would be counted as a grade A in that subject towards the overall required grade **Deferred Entry** Deferred entry accepted ■ Advanced Higher Maths recommended for all courses ■ Transfer to the MMath is possible for students who do well on the BSc ✣ General Teaching Council minimum English qualifications requirement; applicants offering higher grades are likely to be given preference in the selection process **Contact** Dr Louise Kelly **t:** +44(0)141 548 3659 **e:** louise.kelly@strath.ac.uk
BSc (Honours) Mathematics with Teaching Mathematics, Statistics & Economics Finance Management Science	**Highers** 1st sitting: **ABBB** or **ABBCC** 2nd sitting: **AABB** or **ABBBC** **A Levels** Year 1 entry: **BBB** Year 2 entry: **AAB** **IB: 32** **HNC** First year entry possible with relevant HNC, **B** in Graded Unit; second year entry is not offered **Irish Leaving Certificate** Subjects and grades as for Highers, two sittings standard	First year entry: **Maths** Higher **(A)** or A Level **(B)** or IB **(HL6)** **English**✣ Higher **(C)** or GCSE **English Language (C)** and **English Literature (C)** or IB **(SL6)** Year 2 entry: **Maths** A Level **(A)** for all courses; relevant Business subject A Level (A)	
BSc (Honours) Mathematics, Statistics & Accounting	**Highers** 1st sitting: **AAAA** or **AAABB** 2nd sitting: **AAAABB** **A Levels** Year 1 entry: **AAB** Year 2 entry: not offered **IB: 36** **Irish Leaving Certificate** Subjects and grades as for Highers, two sittings standard	**Maths** Higher **(A)** or A Level **(A)** or IB **(HL6)** **English** Higher **(C)** or GCSE **English Language (B)** and **English Literature (B)** or IB **(HL5)**	
MMath Mathematics Mathematics & Statistics	**Highers** 1st sitting: **AAAB** or **AABBC** 2nd sitting: **AAABBB** **A Levels** Year 1 entry: **ABB** Year 2 entry: **AAA** **IB: 36** **HNC** HNC offers entry to BSc in first instance **Irish Leaving Certificate** Subjects and grades as for Highers, two sittings standard	**Maths** Higher **(A)** or A Level **(A)** or IB **(HL6)**	

Entry Requirements

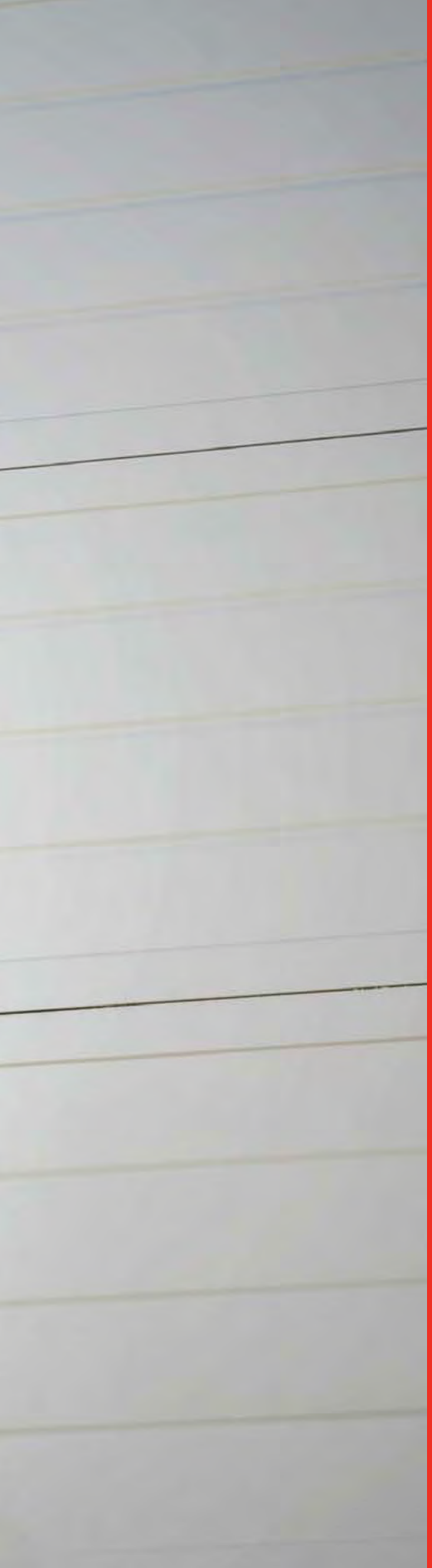
■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum Grades	Required Subjects	Additional Information
Pharmacy			
MPharm Pharmacy	**Highers** 1st sitting: **AABB** ⁺ **A Levels** Year 1 entry: **AAB** Year 2 entry: not offered **IB:** 36 **HNC/HND** HNC/HND is not generally considered on its own; please consult the website (see right) **Irish Leaving Certificate** **AAAAA**	**Highers** **Chemistry** or **Maths (A)**, **English (B or better)** plus either **Biology** or **Physics**; Biology preferred; Advanced Higher **Chemistry** strongly recommended in sixth year; Higher **ESOL** at **(A/B)** may be accepted in place of Higher English **A Levels** **Chemistry** required, in addition **Maths** and **Biology** preferred; if Maths not at A Level, AS Level Maths strongly preferred; GCSE **English Language (B)** **IB** **Chemistry (HL7)**, **Maths (HL6)**, **Biology (HL6)**, **English (HL6)**, included in overall total of not less than **36** at first attempt; **IELTS 7.0** may also be required **Irish Leaving Certificate** **Chemistry**, **Maths**, **English** and **Physics** or **Biology** at Higher level	**Deferred Entry** Deferred entry not accepted ⁺Scottish applicants who do not meet the minimum grade of B at Higher in a required subject at their first attempt are expected to achieve an A at the second attempt, or B if taking that subject at Advanced Higher level. Please note that achieving the minimum grades is not a guarantee of a place on the MPharm programme ■ All offers are subject to criminal history and other relevant checks; applicants are required to be registered with the Protection of Vulnerable Groups Scheme or other national equivalent ■ Pharmacy students are subject to Fitness to Practise procedures ■ For comprehensive details of entry requirements, policies and conditions visit www.strath.ac.uk/sipbs/courses/mpharm/entry **Contact** Dr John Connolly or Carol Barnett **t:** +44 (0)141 548 2863/2654 **e:** MPharm@strath.ac.uk

Course	Minimum Grades	Required Subjects	Additional Information
Physics			
MPhys Physics	**Highers** **AAAB** or **AABBB** **A Levels** Year 1 entry: **ABB** Year 2 entry: **AAB** **IB: 34** **HNC/HND** HNC/HND allows entry to BSc in the first instance **Irish Leaving Certificate** Subjects and grades as for Highers	First year entry: **Physics** Higher **(B)** or A Level **(B)** or IB **(HL6)**; **Maths** Higher **(B)** or A Level **(B)** or IB **(HL6)** Second year entry: Advanced Higher **Physics** and **Mathematics** at **AB** plus two other Higher subjects at **AB** or Advanced Higher at **ABB** including **Physics** and **Mathematics** plus another Higher at **B**	**Deferred Entry** Deferred entry accepted ⁘ General Teaching Council minimum English qualifications requirement; applicants offering higher grades are likely to be given preference in the selection process ■ BSc students who do well can transfer to the MPhys **Contact** Dr Nigel Langford **t:** +44 (0)141 548 3077 **e:** study@phys.strath.ac.uk
BSc (Honours) Physics Physics with Teaching	**Highers** **ABBB** or **BBBBB** **A Levels** Year 1 entry: **BBB** Year 2 entry: **ABB** **IB: 32** **HNC/HND** Admission with HNC/HND is considered on an individual basis; contact us for advice **Irish Leaving Certificate** Subjects and grades as for Highers	First year entry: **Physics** Higher **(B)** or A Level **(B)** or IB **(HL5)**; Advanced Higher **Physics** recommended **Maths** Higher **(B)** or A Level **(B)** or IB **(HL5)** **English** (for Physics with Teaching ⁘) Higher **(C)** or GCSE **English Language (C)** and **English Literature (C)** or IB **(SL6)** (see also right) Second year entry: Advanced Higher **Physics** and **Mathematics** at **AB** plus two other Higher subjects at **AB** or Advanced Higher at **ABB** including **Physics** and **Mathematics** plus another Higher at **B**	

Strathclyde Business School

www.strath.ac.uk/business



Tony Stone

BA (Honours) Hotel & Hospitality Management

Founder, *Stoats Porridge Bars*

My time at Strathclyde was hugely beneficial. I've always tried to do things that I enjoy in life so my interest in food, beverage and hotels led me to a degree in Hospitality Management. Along with this interest I also greatly enjoyed entrepreneurship and dreamt of one day running my own business.

By doing joint Honours at Strathclyde I was able to introduce Marketing into my degree. This split in classes and timetables really helped to broaden my knowledge base in both business and hospitality and give me the foundations I needed for building a business.

Following graduation I undertook a two-year Knowledge Transfer Partnership project where I worked in an independent boutique hotel in Pembrokeshire developing marketing strategies for a fast growing independent hotel. I moved back to Scotland to start Stoats, selling fresh porridge at music festivals. Since then the business has developed into a specialist company that supplies a range of oat-based products to retailers across the UK, as well as export to the US, Asia and Europe.

It's also worth noting that Glasgow is a fantastic city for being a student with plenty of gigs and nightlife!

This split in classes and timetables really helped to broaden my knowledge base in both business and hospitality

Entry Requirements

■ International Students – see pg 159 ■ Mature Students – see pg 156 ■ Please refer also to Admissions, pg 148

Course	Minimum grades	Required subjects	Additional information
BA (Honours) **Accounting** (in any combination) **International Business** (with Accounting)	**Highers** 1st sitting: **AAAA** or **AAABB** 2nd sitting: **AAAAAB** or **AAAABBB** **A Level: AAA** **IB: 36** **HNC/HND:** Entry considered on an individual basis; contact Business School Admissions (see right) **Irish Leaving Certificate: AAABBB** at Higher level, including English and Maths	**English:** Higher (**B**) or GCSE English Language (**A**) or IB (**HL5**) **Maths:** Higher (**A**) or A Level (**A**) or IB (**HL6**)	**Advanced Highers** An Advanced Higher and a Higher are given equal credit and the grades for each qualification count towards the total grades required. **Deferred Entry** Deferred entry not accepted **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 of the Honours course, 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 **t:** +44 (0)141 548 4114 **e:** sbs-adviser@strath.ac.uk
BA (Honours) **Business Enterprise** **Business Law** **Business Technology** **Economics** **Finance** **Hospitality & Tourism Management** **Human Resource Management** **Management** **Management Science** **Marketing**	**Highers** 1st sitting: **AAAB** or **AABBB** 2nd sitting: **AAAABB** or **AAABBBB** **A Level: AAB** **IB: 36** **HNC/HND:** Entry considered on an individual basis; contact Business School Admissions (see right) **Irish Leaving Certificate: AABBBB** at Higher level, including English and Maths	**English:** Higher **(B)** or GCSE English Language **(A)** or IB **(HL5)** **Maths:** Standard Grade Credit **(1)** or Int 2 **(A)** or GCSE **(A)** or IB **(HL5)** **Maths for combinations with Mathematics & Statistics**: Higher **(A)** or **A** Level **(B)** or IB **(HL6)** **Maths for combinations with Finance, Management Science:** Higher **(B)** or A Level **(B)** or IB **(HL6)**	
BA (Honours) **International Business** (without Accounting)	**Highers** 1st sitting: **AAAA** or **AAABB** 2nd sitting: **AAAAAB** or **AAAABBB** **A Level: AAA** **IB: 36** **HNC/HND:** Entry considered on an individual basis; contact Business School Admissions (see right) **Irish Leaving Certificate: AAABBB** at Higher level, including English and Maths	**English:** Higher **(B)** or GCSE English Language **(A)** or IB **(HL5)** **Maths:** Standard Grade Credit **(1)** or Int 2 **(A)** or GCSE **(A)** or IB **(HL5)** **Maths for combinations with Finance, Management Science:** Higher **(B)** or A Level **(B)** or IB **(HL6)**	
Masters in **International Business and Modern Languages**	**Highers** 1st sitting: **AAAA** or **AAABB** 2nd sitting: **AAAAAB** or **AAAABBB** **A Level: AAA** **IB: 36** **HNC/HND:** Entry considered on an individual basis; contact Business School Admissions (see right) **Irish Leaving Certificate: AAABBB** at Higher level including **English** and **Maths** and two languages	**English:** Higher **(B)** or GCSE English Language **(A)** or IB **(HL5)** **Maths:** Standard Grade Credit **(1)** or Int 2 **(A)** or GCSE **(A)** or IB **(HL5)** **Maths for combinations with Finance, Management Science:** Higher **(B)** or A Level **(B)** or IB **(HL6)** Two languages **(French, Spanish, Italian)** at Higher **(AB)**, or A Level in the Modern Language to be studied **(B)** or IB **(HL6)**	

Note: Entry Requirements current at time of publications. Please refer to Terms & Conditions, pg 160.

Strathclyde Business School

Do you have the talent and drive to join the business elite? If so, Strathclyde Business School has the expertise to help you make it happen. If you mean business, we have everything you need.

If you're seeking an exciting and successful career, Strathclyde Business School (SBS) is one of the largest and longest established business schools in Europe and our graduates are in high demand in both the public and private sectors, in the UK and elsewhere. A small percentage of business schools world-wide hold triple accreditation status for the quality of their degree courses and SBS is one of them. We have been rated as 1st in Scotland, top 8 in the UK and top 25 in Europe, in the Financial Times recent ranking of the top European Business Schools (Dec 2011). In the most recent Research Assessment Exercise the Business School was rated top for research in Scotland and No 7 in the UK. This is the place to school yourself in business excellence.

Internationally Accredited
Accreditation of business schools offers you an assurance of the quality of education on offer, the facilities, the staff and the student body. It also gives your degree a recognised value to employers around the world. SBS has accreditation from the three leading international organisations that review and monitor the quality of business schools:

- The Association to Advance Collegiate Schools of Business **(www.aacsb.edu)**
- The European Quality Improvement System **(www.efmd.be)**
- The Association of MBAs **(www.mbaworld.com)**

We can offer you:
- practical relevance in course content and transferable skills
- up-to-date knowledge of business and management techniques
- high degree of student choice and flexibility
- excellent student support
- learning through involvement with real business activities
- creative and innovative teaching and learning methods

Degree Structure
We offer a broad range of business subjects across three types of degree programme: flexible, cross-disciplinary, and specialist.

Should you choose one of our flexible degrees, you will be able to study your chosen subjects from day one, but the broad-based first year means that you will study other subjects. You may find that you wish to specialise later in subjects other than those for which you applied and our flexible degree structure allows you to do this. You also have the opportunity to take elective classes from elsewhere in the University.

Our cross-disciplinary degree, while having a greater number of prescribed classes, is based on the same degree framework, so whichever Business School degree you choose, you will enjoy a wide choice of subjects.

Flexible Degrees
On our flexible degrees you choose a number of subjects to study in your first year. This offers you the chance to try new subjects, some of which you will not have experienced at school or college. At the beginning of second year you decide which two of these subjects you will continue studying into Years 2 and 3. If you know which subject (or subjects) you wish to study, you will find the appropriate UCAS codes on the following pages.

However, you can apply under general entry code N100 if you would prefer to choose your first-year subjects once you arrive and have spoken to an Adviser of Study. If you wish to study Accounting you should apply under N400 or one of the other Accounting codes listed at the course entries on the following pages.

Key facts

Outstanding reputation
Strathclyde Business School is internationally respected as one of the most innovative and largest business schools in Europe.

We're flexible
Our degree structure allows you the flexibility to choose the ideal combination of courses for your chosen career path.

You can study abroad
Our degrees allow you to spend part of your course studying in Europe or overseas.

Business comes first
We place emphasis on real business issues. Our Management Development Programme, which is central to all our degrees, is highly valued by employers.

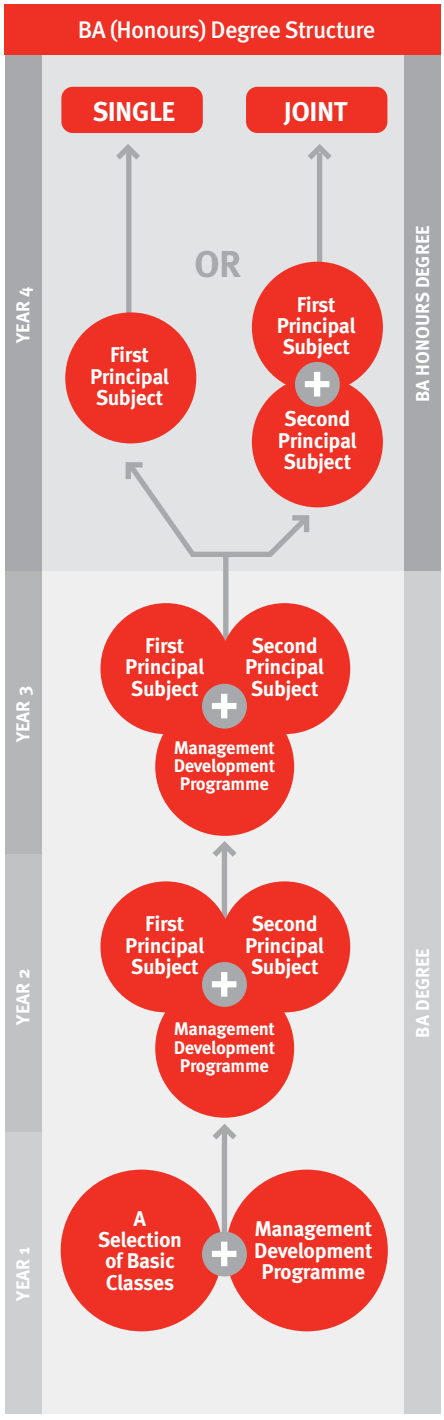
Teaching and research excellence
SBS scores consistently high in official external ratings and student feedback, most recently rated in the Research Assessment Exercise at No 1 in Scotland and No 7 in the UK. Many courses are accredited by professional institutions.

World-class accreditation
A small percentage of business schools world-wide hold triple accreditation status and SBS is one of them.

Accredited by Association of MBAs

EFMD EQUIS ACCREDITED

AACSB ACCREDITED



Cross-Disciplinary and Specialist Degrees
In addition to the flexible degree framework, we also offer a cross-disciplinary degree (Masters in International Business & Modern Languages) and a specialist degree (BA (Honours) in International Business).

The cross-disciplinary course is structured in a similar way to the flexible degrees, allowing you to choose from a range of Business subjects and combine them with Modern Languages. The specialist (Honours) in International Business enables you to study Business subjects in an international context and incorporates a period of one semester abroad in Year 3.

Applications to these degrees should be made using the UCAS codes indicated at the relevant course entry. Subject choice is made at the beginning of the first semester, with the help of the Advisers of Study.

Management Development Programme
At the heart of all our degrees is our Management Development Programme (MDP). Running through Years 1 to 3, the MDP covers areas of understanding that are highly sought after by today's employers, putting our degrees in a class of their own. You develop knowledge and skills in key areas of management. In addition you will acquire essential team-working, communication and decision-making skills and become confident in analysing and presenting information. Visit **www.strath.ac.uk/business/mdp** for more information about the programme.

International Opportunities
Coming to SBS will open up a number of opportunities for you to study abroad, without adding to the length of your degree. Depending on your degree, you may have the opportunity to focus on international business issues, or

to develop skills in a foreign language. And because 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 SBS degree will be valued by employers the world over.

General Business School Admissions Information
Entry requirements are summarised at each course entry and are shown in detail on pg 120. We welcome applications from all qualified applicants and from all those who are progressing towards our admissions requirements.

The following are guidelines to help you choose your Higher subjects or other qualifications which you will study in preparation for entrance to our degree programmes:

- you do not need to have studied business subjects before coming to Strathclyde Business School
- 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, as long as you are able to 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. If you wish to explore this route, please contact Business School Admissions (details right) for advice on curriculum choice before beginning advanced studies.

Other Qualifications
We will be pleased to consider your application if you have qualifications different from SQA Highers and GCE A Levels. Students who have studied in our undergraduate degree programmes in the past have included people with Irish Leaving Certificates, European Baccalaureates and International Baccalaureates. Some overseas school-leavers may require a foundation course. Please contact Business School Admissions for advice. If you are offering such qualifications, we expect you to have similar levels of overall ability, eg generally equivalent to a B pass (or an average of 60%) and of course we will ask you to show your ability in any specific subjects required for a particular degree programme. For example, some programmes require a higher level of ability in Maths, and some a level of proficiency in Modern Languages.

Mature Students
Business admission routes for mature students include Access courses, HNCs, HNDs, Open University Credits, Highers, Advanced Highers, AS and A Levels (which must be recent). If you are considering applying and do not have recent formal qualifications but your previous experience demonstrates an ability to cope with the academic demands of a degree programme then please see further information for Mature Students on pg 156 or contact Business School Admissions (see right).

Subject combinations

Accounting*											
J	Business Enterprise										
J	J	Business Technology									
J	J	J	Economics								
J	J	J	J	Finance							
J	J		J	J	Hospitality & Tourism Management						
J	J	J	J	J	J	Human Resource Management					
J	J	J	J	J	J	J	Management				
J	J	J	J	J	J	J	J	Management Science			
J	J	J	J	J	J	J	J	J	Marketing		Business Subjects
J	J		J	J	J	J		J	J	Business Law+	NON-Business Subjects
			J			J			J	Psychology +	
J			J	J				J		Maths & Statistics +	

J Combinations which may be taken jointly for the BA Honours degree and for the BA degree
\+ Available as a second subject only
* To study Accounting, you must be admitted to a course which includes Accounting

Pre-Entry Access Course
This part-time one-year evening course for mature students is taught and examined within the University (see pg 149) and is accepted for entry by many degree programmes. Similar pre-entry courses offered by other UK universities may also be accepted.

Contact
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Accounting

BA (Honours)

Accounting

UCAS N400

Highers 1st sitting
AAAA or **AAABB**

Highers 2nd sitting
AAAAAB or **AAAABBB**

A Levels **AAA**

Joint Honours

Business Enterprise

UCAS NN41

Business Law

UCAS NM42

Business Technology

UCAS NG42

Economics

UCAS NL41

Finance

UCAS NN43

Hospitality & Tourism Management

UCAS NN48

Human Resource Management

UCAS NN46

Management

UCAS NN42

Management Science

UCAS GN24

Marketing

UCAS NN45

Maths & Statistics

UCAS NG41

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3261
e: accfin@strath.ac.uk

The Department of Accounting & Finance has been ranked 1st in the UK for Accounting & Finance by The Sunday Times University Guide 2011. We have also has been ranked 1st in Scotland and No 4 in the UK in the Complete University Guide Subject League Table for 2011.

You can study Accounting in combination with a range of business subjects at Strathclyde. In the majority of study combinations, Accounting is fully accredited for entry to the Institute of Chartered Accountants of Scotland as well as offering possible exemptions to other professional bodies, eg ACCA and CIMA. In-depth understanding of a second subject will complement your accounting studies and is particularly valued by employers.

You will learn that accounting concerns the preparation, presentation and interpretation of financial information to enable investors, lenders, management, employees, government and others to make effective decisions. You will learn how to read and interpret accounting information in the annual reports of businesses and the financial information within the public sector and become familiar with the principles and practice of presenting information to those who manage all types of organisations.

You will explore how accounting can be developed to meet the needs of society, in addition to providing information to investors. In your Honours year you will be able to study such issues in class and then investigate them further in a project for your dissertation.

Course Description
Year 1: Provides an introduction to accounting and finance, complemented with study of economics and law.

Year 2: Develops the specialisms of financial and management accounting. We encourage you to look behind the techniques used by accountants in order to develop an understanding of the influences that develop and shape accounting practice. There is an opportunity to study taxation.

Year 3: Includes advanced topics in financial and management accounting and also the study of auditing. By the end of this year you will normally have completed the accreditation requirements for professional accountancy bodies, provided you have taken the classes prescribed for the accredited pathway.

Year 4: You can either specialise in accounting as a single Honours subject or continue to a joint Honours degree in accounting with your other principal subject. Honours classes include Management Accounting Theory & Practice, Accounting Information Systems, Sustainability Accounting, Theory & Practice, Strategic Accounting & Financial Management in Entrepreneurial Firms, Public Sector Accounting, Accounting Theories, Accounting & Risk, Corporate Governance, Contemporary Issues in International Financial Reporting, Understanding 21st-century Accounting Technologies & Institutional Structures, Integrative Studies in Management & Accounting, Accounting Ethics, Auditing Theory & Practice and Taxation.

Teaching and Assessment
Our teaching methods encourage student participation. Regular student presentations develop oral and written communication skills. In Years 1 to 3 lectures deliver the essential knowledge and understanding required by the entire class but our main focus is on regular small-group tutorials which develop interaction and exchange of views on the

issues around work you prepare in advance. In Year 4 most teaching is seminar-based with students leading the discussions, guided by an experienced member of staff whose research and professional interests are relevant to the work of the particular class.

Assessment of coursework ranges from weekly quizzes to investigative projects and poster sessions. Exams remain an essential component of assessment, mixed with coursework to ensure that all learning outcomes are evaluated appropriately.

Careers

In recent years, nearly all Accounting and Finance graduates entered relevant professional employment. Santander, Deloitte, Ernst & Young, HSBC, KPMG, BAE Systems, Norwich Union, PricewaterhouseCoopers and The Royal Bank of Scotland are just a few of the well-known organisations who seek our Accounting graduates, many of whom obtain training contracts leading to a professional Accounting qualification.

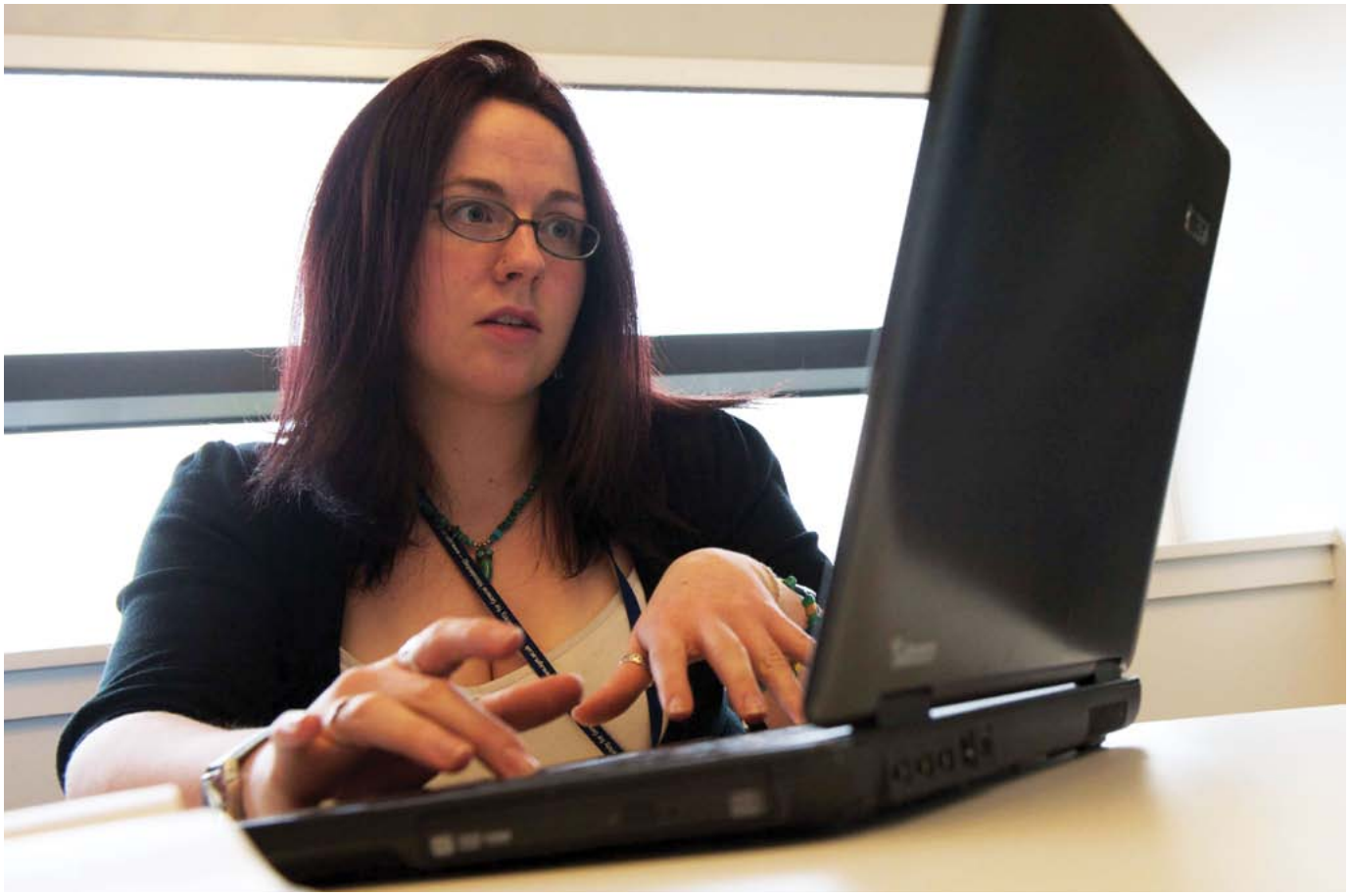
Some graduates enter branches of commerce such as banking, stockbroking and fund management, while others hold positions of responsibility in industry, commerce and the profession.

Subject Combinations with Accounting

Accounting can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Accounting but are unsure about other subjects, you should apply under Accounting **(UCAS: N400**).

Accounting can also be studied in the following Business School programme (please note this degree is not accredited by the Institute of Chartered Accountants of Scotland):

- BA (Honours) International Business **(UCAS: NN14)**



BA (Honours)

UCAS N190

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting
UCAS NN41

Business Law
UCAS MN21

Business Technology
UCAS NG12

Economics
UCAS NL11

Finance
UCAS NN13

Hospitality & Tourism Management
UCAS NN1V

Human Resource Management
UCAS NN16

Management
UCAS NN12

Management Science
UCAS NN1G

Marketing
UCAS NN15

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3482
e: entrepreneur@strath.ac.uk

Business Enterprise

www.strath.ac.uk/business

The Business Enterprise pathway will equip you with real-world skills that are highly valued in an increasingly competitive employment market, opening up new opportunities for venture creation, business acquisition and the transformation of existing organisations and enterprises.

Business enterprise is about the creation of wealth, the practice of creativity and resourcefulness and the exploitation of change. It focuses on the ability of entrepreneurship to challenge accepted ways of doing things and disrupt established markets and organisations through new venture creation. It lies at the heart of Scotland's future economic and social prosperity and its ability to compete.

Business enterprise is designed for students with three broad career interests – those who want to start a new enterprise, those who wish to take over the management of an existing organisation or business and those who see themselves taking up leadership positions in a wide variety of business settings. The programme will enable you to gain an awareness of both academic and practitioner perspectives. Emphasis is placed on developing an understanding of the specific sectors within which the realities of business and organisational life take place.

Course Description

Year 1: Provides an understanding of the radical nature of entrepreneurship and its ability to change industries, markets and society, introducing the vocabulary, concepts and practice of enterprise through the core class – Entrepreneurship: Theory & Practice. In the second semester you participate in the Value Challenge – a group assignment to give you real life experience of creating value through entrepreneurial activity.

Year 2: Introduces you to key entrepreneurial processes. You take two core classes – Creativity & Opportunity Recognition and New Venture Creation and the option of taking Introduction to Business Start-Up (computer-based simulation class) or Knowledge, Science & Technology-based Businesses as electives.

Year 3: Examines entrepreneurial processes and enterprising skills in different contexts. There are two core classes – Entrepreneurial Capital & Resources and Venture Management, Strategy & Growth (consulting project) and you can chose either Corporate Entrepreneurship or Social & Community Entrepreneurship as electives.

Year 4: Core classes – Venture Management in Practice (placement), Family Business: Theory & Practice, Issues and Trends in Entrepreneurship and International Entrepreneurship. You will also undertake a dissertation on an aspect of enterprise.

Teaching and Assessment

Our interactive teaching includes class discussions, seminars, workshops, tutorials and participative lectures. Emphasis is placed on individual and team assignments, analysis of case studies, reflective learning and various forms of direct engagement with real entrepreneurs and external companies.

Subject Combinations

Business Enterprise can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Business Enterprise but are unsure about other subjects, you should apply under Business Enterprise **(UCAS: N190)**.

Business Enterprise can also be studied in the following Business School programme:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

Student profile

David Neil

Business Enterprise

Part of course work in third year, involved placements working as consultants within a Glasgow-based firm. The objective was to develop strategies for growth and apply what we had learned in university to the business, culminating in a presentation to the top management team. It was a valuable experience which led to me being offered a summer internship with the company.

University prepares you well from a social perspective as well developing your soft skills. There's a unique blend of personalities and cultures at Strathclyde and I've learned how to work alongside them all. Through networking at university I have met people I wouldn't otherwise have met and who I may wish to do business with in the future.

BA (Joint Honours only)

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Accounting
UCAS NM42

Business Enterprise
UCAS MN21

Economics
UCAS LM12

Finance
UCAS NM32

Hospitality & Tourism Management
UCAS MN28

Human Resource Management
UCAS NM62

Management Science
UCAS GM22

Marketing
UCAS NM52

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3738
e: hass-courses-lgpp@strath.ac.uk

Business Law

www.strath.ac.uk/business

Business Law is concerned with the aspects of legal regulations which are of particular relevance to the world of industry and commerce. The programme is tailored to equip you with a knowledge of those aspects of law which will be useful in a business context.

Business Law introduces you to the general principles of commercial law and to aspects of legal regulation which are especially relevant to the business community. These include company law, labour law, competition law, European Union law, environmental law, intellectual property law and human rights law.

The study of Business Law at Strathclyde is regarded not only as a vocational study but also as a broad liberal education. It is an interdisciplinary degree programme offered by the Business School together with the Law School in the Faculty of Humanities & Social Sciences, one of Scotland's leading providers of legal education.

Business Law can be studied as a second subject only, within Strathclyde Business School's BA programme. This means you can study Business Law as a joint Honours option only. Single Honours study of Business Law is not available.

Note: Taking Business Law within the BA degree will not qualify you for entry into the legal profession (For a professional qualification in Law, see LLB Law course entry on pg 76).

Course Description
Year 1: The first-year core Business Law class introduces the main areas of legal study. This includes law-making in the UK Parliament and the devolved Parliament in Scotland, court systems and their decision-making and outlines the law of contract and negligence which are essential building blocks of all areas of law.

Year 2 and 3: You have flexibility in your choice of business-related law subjects, and can select from a wide range of electives to meet personal interests and tie in with your other principal subject.

Year 4: You can select Business Law as part of a joint Honours degree, studying in greater detail two of the classes you have already studied as electives

Teaching and Assessment
Lectures, tutorials, directed reading and group projects form the basis for instructed and student-centred learning activities. Classes are supported by excellent IT and web-based resources. Assessment methods include exam, written coursework, group work, presentations and class participation.

Careers
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 continue to an accelerated LLB degree (see pg 76).

Subject Combinations
Business Law can be studied to joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified.

Business Technology

www.strath.ac.uk/business

BA (Honours)

Business Technology

UCAS G290

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting
UCAS NG42

Business Enterprise
UCAS NG12

Economics
UCAS GL21

Finance
UCAS GN23

Human Resource Management
UCAS GN26

Management
UCAS GN22

Management Science
UCAS G291

Marketing
UCAS GN25

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3613
e: contact-bustech@strath.ac.uk

Technology is at the heart of all modern business. Just about every organisation uses it to become more effective and to develop new services and products to expand overseas into new markets. Business executives can use technology to collaborate globally without ever having to meet in person.

Organisations need to know how technology affects what they do in order to benefit from the opportunities it presents but many lack the necessary skills to understand technological change. Organisations need business graduates who are able to bridge this gap with expertise in business technology. The course combines an awareness of business technologies with an understanding of business processes. You will develop an understanding of how technology can be used and the problems that may arise. You will learn how to identify opportunities for organisational transformation.

Course Description
Year 1: Introduces key managerial and operational issues and highlights the practical problems and opportunities of technology use in business.

Years 2 & 3: Core classes provide you with an understanding of the management challenges caused by technological innovation. Elective classes show how technology affects all parts of the organisation, allows new ways of working to emerge and how it contributes to organisational competitiveness. Your practical skills develop through the use of enterprise resource planning software such as SAP, as well as database and simulation packages to tackle problems that are often set by external clients.

Year 4: You will conduct a major project, usually for a client organisation and take classes in subjects such as Business Analytics using Data Mining, Business Process Integration with ERP, Electronic Commerce, Risk Analysis and Management, Project Management. Subjects are revised to reflect topical developments in the use of technology by business as well as the research interests of staff.

Teaching and Assessment
Business Technology is taught through interactive lectures, tutorials and practical sessions. Guest lecturers contribute the perspective of industry, complementing that of academic staff. Electronic resources support teaching and learning, allowing teaching material to be delivered through blogs, bulletin boards and podcasts.

A range of assessment methods is used including an element of individual assessment for all classes. In some cases assessment may be in the form of group work.

Careers
The career prospects for Business Technology graduates are excellent and you will find business analysts in organisations as diverse as Procter & Gamble, The Royal Bank of Scotland and Tesco. The combination of business and practical software use and modelling skills is also highly attractive to consultancy companies.

Subject Combinations
Business Technology can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Business Technology but are unsure about other subjects, you should apply under Business Technology **(UCAS: G290)**.

Business Technology can also be studied in the following SBS programmes:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

BA (Honours)

Economics

UCAS L100

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting
UCAS NL41

Business Enterprise
UCAS NL11

Business Law
UCAS LM12

Business Technology
UCAS GL21

Finance
UCAS LN13

Hospitality & Tourism Management
UCAS LN18

Human Resource Management
UCAS LN16

Management
UCAS LN12

Management Science
UCAS LG12

Marketing
UCAS LN15

Maths & Statistics
UCAS LG1C

Psychology
UCAS LC18

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3840
e: economics@strath.ac.uk

Economics

www.strath.ac.uk/business

Economics aims to understand the activities of the different types of agents in the economy – consumers, producers and the government – and how their activities all fit together. In the face of the recent global economic crisis, economics is more relevant and exciting than ever.

Decisions on money, banking, interest rates, taxation and government spending affect us all, with global consequences. At the level of the individual consumer and producer, economics also helps us to understand what is meant by 'rational' economic behaviour. Economics is a major subject in the Strathclyde Business School and is also offered in the BA (Honours) in Arts & Social Sciences and the BSc (Honours) in Maths & Statistics with Economics.

Course Description
Year 1: The class Introduction to Economics assumes no previous knowledge of economics but is also suitable for those who have studied the subject before. Economics in first year is concerned with consumers and industries, with markets, market failure and the role of government, unemployment and inflation.

Year 2: You take core classes in Microeconomics and Macroeconomics and chose from a number of optional classes.

Year 3: You study a combination of core and otpional classes to develop the foundations laid in Years 1 and 2 with a view to Honours study.

Year 4: A selection of optional classes complements the core macroeconomics and microeconomics offerings. You also undertake a dissertation, which presents a first opportunity to produce a substantial piece of independent research. Optional classes in the Honours year will include:

- Applied Econometrics
- Industrial Economics
- Natural Resource, Environmental and Energy Economics
- Behavioural Economics
- Finance and Prosperity

Teaching and Assessment
Tutorials, workshops and lab sessions are integral to the programme. Assessment methods include essay writing and group project work, short answer class tests, multiple choice tests and formal end-of-year examinations. Good performance in coursework in Year 1 leads to exemption from the final exam.

Careers
Strathclyde Economics graduates are successful in obtaining employment in a wide range of areas, including: the Government Economic Service, management, investment analysis, business systems analysis, stockbroking, auditing, production control, banking, health boards, the Tax Inspectorate, the BBC and other media outlets, research, higher and further education. Prospective employers are found in the public and private sectors, manufacturing and service industries, among UK companies and foreign-owned multinationals.

Subject Combinations
Economics can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Economics but are unsure about other subjects, you should apply under Economics **(UCAS: L100)**.

Economics can also be studied in the following Business School programmes:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

Student profile

Leigh Rafferty

BA (Honours) Economics

I chose Strathclyde because of the reputation of the Business School and the flexibility of course choices; I applied to study Accounting but ended up doing Economics and Business Technology!
A highlight was competing in the IBM university business challenge.
I also attended annual lectures at RBS headquarters. In the summer between my third and fourth year I had an internship in London with the Government Economics Service, the biggest employer of economists in the UK. Strathclyde boasts a very flexible learning environment and I found the staff to be very approachable, friendly and helpful.

BA (Honours)

Finance

UCAS N300

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting
UCAS NN43

Business Enterprise
UCAS NN13

Business Law
UCAS NM32

Business Technology
UCAS GN23

Economics
UCAS LN13

Hospitality & Tourism Management
UCAS NN38

Human Resource Management
UCAS NN36

Management
UCAS NN32

Management Science
UCAS NG32

Marketing
UCAS NN35

Maths & Statistics
UCAS NG33

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3261
e: accfin@strath.ac.uk

Finance

A degree in Finance will give you the skills needed to pursue a career in financial services such as banking, investment management, pension fund management, and insurance, as well as a wide range of business organisations. It will also be invaluable in helping you make personal financial decisions.

Our Finance programme is unique in Scotland in terms of the range and depth of the finance issues covered. Years 1 to 3 involve detailed coverage of:

- the principles of investment and value
- business finance and decision-making
- analysis of securities such as bonds and shares
- analysis of financial derivatives such as options, futures and swaps
- management of risk
- financial modelling
- the operations of financial markets and the banking system
- interpretation of financial statements and evaluating the performance of companies

In the Honours (fourth) year you choose from a number of classes focusing on key areas of finance such as corporate investment, corporate finance, and the pricing and management of financial assets.

You can study Finance in combination with a range of business subjects. Employers tell us that they particularly value the range of subject combinations available at Strathclyde, ensuring that our students have in-depth understanding of a second subject to complement their Finance studies.

Course Description

Year 1: The class Introduction to Finance and Accounting covers the basic principles of investment and value; an introduction to the valuation of bonds and shares; an introduction to investment decisions in business companies; and an introduction to accounting methods.

Year 2: Classes cover domestic and international financial decision-making and policies in business; risk and return and the pricing of company shares; portfolio selection and the efficiency of financial markets. Statistical and spreadsheet methods of analysing financial problems will be included in the core classes. Optional classes will enable you to further develop your understanding of financial statements and how they may be interpreted, or to deepen your knowledge of financial markets and the banking system.

Year 3: Classes cover valuation of bonds and shares; valuation of derivatives such as options and futures and swaps; the operations of derivatives markets; investment strategies; treasury and international financial risk management in business. Advanced methods of empirical analysis, and access to historic and live data will be included in the core classes. Choice of optional classes covering financial statements or financial markets and the banking system as in Year 2.

Year 4: You can either specialise in Finance as a single Honours subject or continue to a joint Honours degree in Finance and your other principal subject. In order to gain entry to the Honours year you must meet specified performance criteria in Years 2 and 3.

Students taking single Honours in Finance will do a research dissertation in Finance, while joint Honours students typically have the choice of doing their dissertation in either Finance or their other principal subject. Honours classes cover advanced topics in the following areas:

- Corporate Investment
- Corporate Financing
- Asset Pricing
- Portfolio Analysis
- Derivatives
- International Financial Management
- Behavioural Finance
- International Corporate Governance
- Financial Quantitative Methods

Teaching and Assessment
The majority of classes in Years 1 to 3 are taught using a mixture of lectures and tutorials. Assessment for these classes contains both coursework and final exam. Honours-year classes rely heavily on research findings in academic journals and use a wide range of assessment methods including case studies, research projects, article reviews, essays, and final exams. Exams in the Honours Finance year count for a smaller proportion of the overall assessment than in Years 1 to 3. Final-year students are exposed to research that is at the cutting edge in finance.

Careers
In recent years, nearly all Finance graduates entered relevant professional employment. Blackrock, Bank of America, Merrill Lynch, Deutsche Bank, The Royal Bank of Scotland, Deloitte, Ernst & Young, BAE Systems, HSBC, KPMG, Accenture, TOTAL, Aviva, PricewaterhouseCoopers, The National Australia Group and Morgan Stanley are just a few of the well known organisations who seek our graduates.

Graduates with a degree that includes Finance are well-equipped for careers as financial analysts or investment managers with a range of city institutions, including merchant banks, pension funds, insurance companies and stockbrokers. A number of our graduates also pursue careers with the major accountancy firms and embark on the professional accounting qualifications.

Subject Combinations
Finance can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Finance but are unsure about other subjects, you should apply under Finance **(UCAS: N300)**.

Finance can also be studied in the following Business School programmes:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

BA (Honours)

Hospitality & Tourism Management

UCAS N890

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting
UCAS NN48

Business Enterprise
UCAS NN1V

Business Law
UCAS MN28

Economics
UCAS LN18

Finance
UCAS NN38

Human Resource Management
UCAS NN6V

Management
UCAS NN2W

Management Science
UCAS NN8F

Marketing
UCAS NN5V

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 553 6101
e: contact-management@strath.ac.uk

Hospitality & Tourism Management

Studying Hospitality & Tourism Management opens the doors to the largest and fastest-growing sector of the Scottish and global economies and prepares you for leadership roles in a dynamic and fast growing industry which generates over £5 billion to the Scottish economy and creates 1 in 10 jobs.

Hospitality & Tourism is a sector that is at the heart of many of the big moments in modern life such as major sports and music events, a fun week in Ibiza or a dream holiday in the Maldives.

We will ensure that you have the necessary skills to manage operations and businesses across a diverse range of contexts including hospitality, tourism, cultural heritage, festivals and events. The skills cultivated working in hospitality and tourism environments are also coveted by a broad range of businesses in the contemporary service-led economy.

On graduation you may be entitled to apply for membership of professional bodies working in the sector such as the Institute of Hospitality, the Institute of Travel & Tourism, Tourism Society or the Royal Geographical Society.

Course Description

Year 1: The introductory class presents the basic concepts, issues and operational features of hospitality, tourism, cultural heritage, festivals and events.

Year 2: Classes include Service Encounter Management and Destination Positioning & Management.

Year 3: You will have the chance to apply theoretical knowledge to real industry contexts, including exploring destination development in Scotland and Europe, and planning and executing a corporate, sports, entertainment, or charitable event. You will also be able to apply your academic knowledge to industry by undertaking a placement in one of Scotland's many exciting and innovative businesses.

Year 4: The core class for your Honours year is Critical Hospitality & Tourism Studies. You can also choose from Management, Enterprise and the Rise of the Global Economy, Strategy & Leadership, Being and Ethical Manager and Family Business: Theory & Practice. In addition you undertake a dissertation on a hospitality and tourism topic of your choice.

Teaching and Assessment

Classes use a mixture of coursework (essays and projects) and exams to assess student learning. You will be required to work on your own, but also as part of a team doing group presentations and reports or projects.

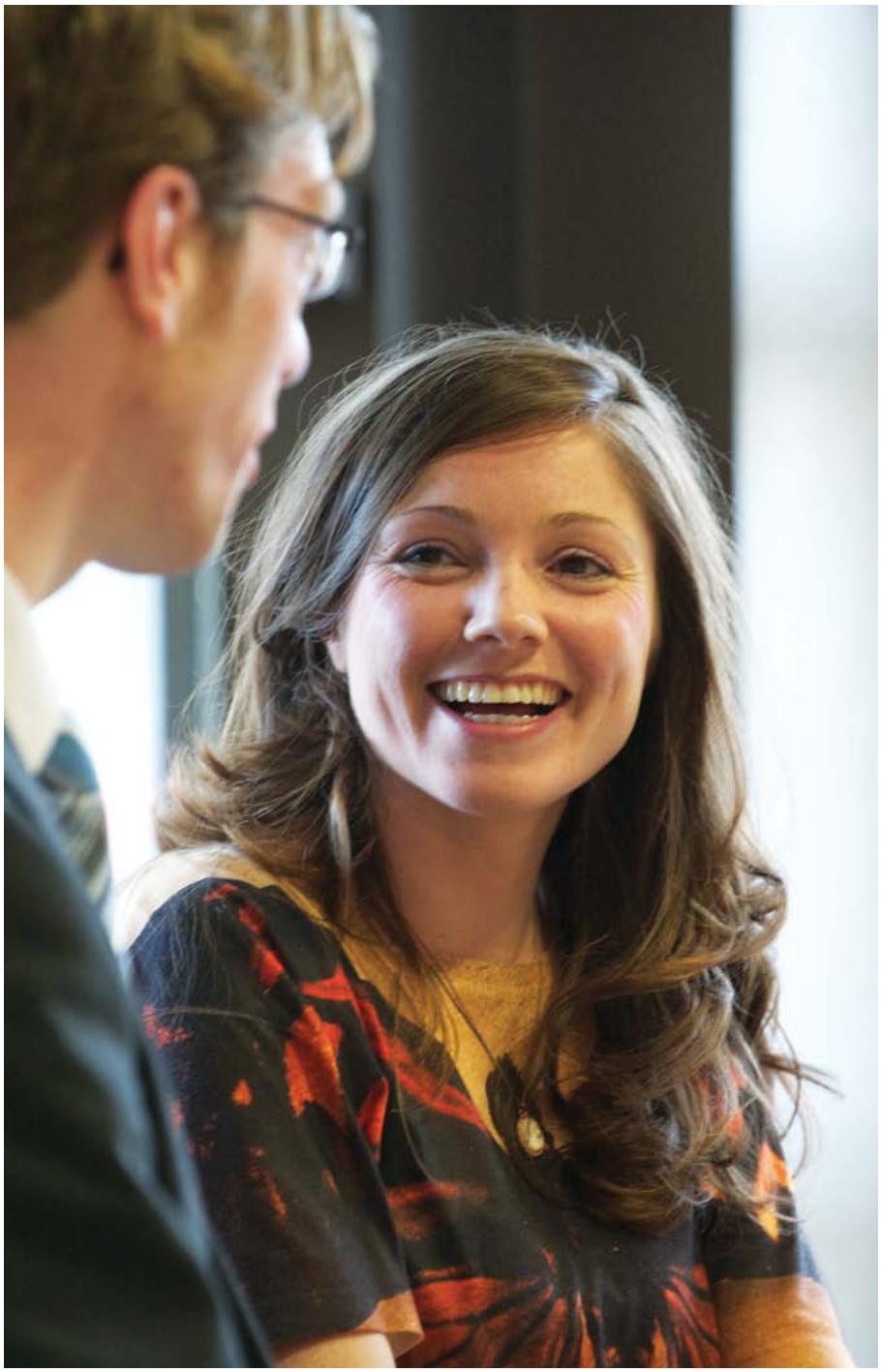
Industry Experience

Hospitality & Tourism management is a dynamic and customer-focused industry and we encourage you to gain a sense of the industry, its operations and organisation before starting the course, or by working during the summer break. With a truly global alumni network we can assist students in gaining experience, strengthening their CV, and developing their own professional development plan.

Careers

The quality of the educational experience and the reputation and international profile of our degree is demonstrated through a strong alumni presence in the sector across the globe.

Alumni job titles have included: Global CEO with Jones Lang and Lasalle Hotels, Chief Executive Glasgow City Marketing Bureau, Vice-President Operations with Intercontinental Hotels, General Manager with the Mandarin Oriental Hotel Group, Front Office Manager and



General Manager with Hilton, Director of Sales and Marketing with Radisson, Private Dining and Events Coordinator with The Ritz London, Restaurant Manager with Four Seasons, Sales Manager with the Edinburgh International Conference Centre, Human Resource Manager with Marriott, Rooms Division Manager with Ritz-Carlton, a variety of other positions from Tourist Information Centre Managers to Regional Directors for VisitScotland.com, and tourism and leisure researchers and consultants.

Subject Combinations
Hospitality & Tourism Management can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Hospitality & Tourism Management but are unsure about other subjects, you should apply under Hospitality & Tourism **(UCAS: N890)**.

Hospitality & Tourism Management can also be studied in the following the Business School programmes:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

BA (Honours)

Human Resource Management

UCAS N600

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting
UCAS NN46

Business Enterprise
UCAS NN16

Business Law
UCAS NM62

Business Technology
UCAS GN26

Economics
UCAS LN16

Finance
UCAS NN36

Hospitality & Tourism Management
UCAS NN6V

Management
UCAS NN62

Management Science
UCAS NG62

Marketing
UCAS NN65

Psychology
UCAS NC68

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3974
e: hrm@strath.ac.uk

Human Resource Management

Human Resource Management (HRM) is the study of the ideas and practices of managing people in the workplace. It is an area of study and management which is seen as critical to good business and workplace performance.

Human Resource Management is concerned with acquisition and utilisation of the 'human resource' or people as employees and the nature of the employment relationship. This covers key processes such as: recruitment and selection; training and developing; rewarding and managing performance; and influencing employee behaviour, including securing cooperation and commitment, but also recognising and managing conflict at work. These are an integral part of the strategic and management concerns in work organisations of all kinds.

Whether the context is a multinational global enterprise or an NHS trust, a small business enterprise or voluntary sector organisation, how the employment relationship is managed matters. HRM is evolving in an environment of great political, economic, social and technological change. The study of HRM involves diverse academic disciplines, combining social science explanations of individual, interpersonal and group behavior within an organisational structure, which is also located in wider structures of economic and social relationships.

Strathclyde is widely acknowledged to offer some of the best teaching in HRM in both Scotland and the UK. The Department is an accredited centre for teaching HRM, which means our postgraduate courses give students graduate membership of the leading professional body for HR managers – the Chartered Institute of Personnel and Development (CIPD).

Course Description
Year 1: The introductory class in HRM (Managing People) provides an integrated overview of the subject. It is equally appropriate for students in the Business School and in the Faculty of Humanities & Social Sciences who are interested in this area of management, and those who wish to specialise in the subject beyond first year.

Years 2 & 3: Further core classes at each year cover in more depth theories and techniques about HRM processes and wider social and economic influences on the employment relationship. Year 2 year focuses on areas of workplace behaviour drawing on ideas from organisational psychology to analyse processes such as such as recruitment and selection, teams and groups, and employee commitment and engagement. Year 3 core classes draw more on sociological theories and perspectives on the nature of the employment relationship and behavior at work, which explore themes such as power and authority, interests and conflict. Options are also available in areas which reflect staff's academic expertise, for example in employee development and in equality and diversity.

Year 4: A range of specialist classes is available for study at single or joint Honours.

Teaching and Assessment
Modules are generally organised around two hours of lectures per week supported by tutorial seminars every two weeks in terms of specified contact time. However, increasing emphasis is placed on independent learning and activities outside the formal classroom context.

Assessment includes a range of assignment tasks including formal exams; extended essays; class presentations; and online quizzes. Some of these tasks may be group-based as well as individual activities.

Careers
Our graduates are among the most successful in both the private and public sectors. Some follow careers in the specialist area of HRM; others go on to find general graduate-entry management posts where people management knowledge and skills are increasingly important.

Recent graduates have gained jobs in a range of leading private and public sector organisations, including ScottishPower, Accenture, Marks & Spencer, health trusts and local authorities, and also research posts in the University itself.

Subject Combinations
Human Resource Management can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Human Resource Management but are unsure about other subjects, you should apply under Human Resource Management **(UCAS: N600)**.

Human Resource Management can also be studied in the following Business School programmes:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

Management

BA (Honours)

Management

UCAS N200

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting

UCAS NN42

Business Enterprise

UCAS NN12

Business Technology

UCAS GN22

Economics

UCAS LN12

Finance

UCAS NN32

Hospitality & Tourism Management

UCAS NN2W

Human Resource Management

UCAS NN62

Management Science

UCAS NG22

Marketing

UCAS NN25

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 553 6026
e: contact-management@strath.ac.uk

Studying Management will help you understand the theory underpinning this subject area and will help you to develop the skills required to translate the theory into practice in order to achieve personal success and make a significant contribution to society.

Management is sometimes defined as the achievement of results with, and through, others. Organisations in the public, private, charitable and voluntary sectors are all managed and the goods and services they provide are used by all of us in our daily lives. Whether the challenge is developing profitable new products or improving the health of our nation, the answer often comes down to management.

Course Description
Year 1: Management in a Global Context introduces the concept of management processes and practices in a global context.

Year 2: Organisational Analysis & Strategy equips you with the knowledge to use strategic concepts to analyse organisational structure and **Understanding Change In Organisations** explores the implications for change in a world that is increasingly internationally connected.

Year 3: Developing Theory into Practice uses academic theory and literature, combined with real-life industry practice to develop your abilities of critical self-reflection as a future practising manager. As part of the experiential third year you will have the opportunity to study management technologies and innovation in private public and third sector organisations. You will also plan and execute a corporate, sports, entertainment, or charitable event as part of an Events Management class. In addition you will be able to apply your academic knowledge to industry by undertaking a placement in one of Scotland's many exciting and innovative businesses.

Year 4 (Honours): The core class Contemporary Issues in Management looks at the challenges managers face in today's ever-changing environment. You can also choose from:

- Dynamics of Organising
- Strategy and Leadership
- Management, Enterprise and the Rise of the Global Economy
- Being an Ethical Manager

In addition you undertake a dissertation on a Management topic of your choice.

Teaching and Assessment
Classes are taught by a mix of lectures consolidated by tutorial sessions. Our problem-centred approach uses real organisations to illustrate how theory translates to practice. We also use web-based learning environments with support materials available online.

Careers
The breadth of opportunities that you will be qualified for is a real benefit of this course and you will be able to make a positive contribution in a range of settings. You are as likely to find yourself working in a small, privately-owned company as you are to work in a large multinational, the public sector or perhaps even in your own business. For example, recent graduates are now working for Ernst & Young, The Royal Bank of Scotland, Lloyds, Hewlett Packard and Procter & Gamble.

Subject Combinations
Management can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Management but are unsure about other subjects, you should apply under Management **(UCAS: N200).**

Management can also be studied in the following Business School programme:

- BA International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR190)**

Management Science

BA (Honours)

Management Science

UCAS G200

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Joint Honours

Accounting
UCAS GN24

Business Enterprise
UCAS NN1G

Business Law
UCAS GM22

Business Technology
UCAS G291

Economics
UCAS LG12

Finance
UCAS NG32

Hospitality & Tourism Management
UCAS NN8F

Human Resource Management
UCAS NG62

Management
UCAS NG22

Marketing
UCAS NG52

Maths & Statistics
UCAS G000

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3613
e: contact-mansci@strath.ac.uk

The Department of Management Science is one of the leading departments of its kind, both in the UK and in Europe. A Management Science degree at Strathclyde constitutes the first step towards full professional accreditation with the Operational Research Society of the UK.

Management Science (also known as Operational Research) applies advanced analytical methods to business problems to help managers make better decisions. Management scientists advise many different organisations and should not only have an excellent general awareness of how businesses work, but should also be able to apply advanced analytical methods to deal with specific management issues.

Course Description
Year 1: Management Science principles and techniques are introduced. A wide range of modelling techniques will be discussed.

Years 2 and 3: Core Management Science classes demonstrate the use of analytical models and problem structuring methods in a variety of real business contexts. The practice of management consultancy is explicitly addressed and individual and teamwork allow you to develop practical skills in all aspects of practice. Elective classes develop specific modelling techniques and provide the basics of Operations Management and Supply Chain Management as well as delivering detailed knowledge related to supporting knowledge workers and managers using information systems.

Year 4 (Honours): You carry out a major consultancy project, which focuses on the needs of a specific client organisation. You also take classes covering subjects such as Performance Measurement, Risk Management, Modelling Service Operations, Operations Strategy, Systems Dynamics and Electronic Commerce. The core Management Science class is devoted to practical skills and knowledge in management science consultancy.

Teaching and Assessment
Teaching focuses on practical as well as theoretical skills. Coursework plays an important role and is reinforced through tutorials, workshops, interactive class discussions, computer-based lab sessions and independent study.

In assignments you will address real business issues and come up with genuine and realistic solutions. To reflect the team-based nature of modern management consultancy, some assignments will be in the form of group work.

Careers
The best performing companies look for very high levels of problem-solving ability, numeracy, business awareness and teamwork in their new employees. Management Science delivers this to a much greater extent than many other courses in business and management. For this reason, a significant number of well-known companies specifically target graduates from Strathclyde Business School in general, and Management Science in particular.

Companies employing 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; consumer goods companies such as Procter & Gamble and Unilever; supermarkets such as Tesco and Morrisons; other companies such as British Airways, ScottishPower, BT, BAE Systems and public sector organisations such as the NHS. Job titles vary and may include Business Consultant, Business Analyst, Operations Manager and Risk Manager.

Magdalena Gajdosz is studying for a PhD in Management Science. Her doctoral work on safety explores risk in factors such as an organisation's structure and culture.

Subject Combinations
Management Science can be studied to Honours or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Management Science but are unsure about other subjects, you should apply under Management Science **(UCAS: G200)**.

Management Science can also be studied in the following SBS programmes:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

BA (Honours)

Marketing

UCAS N500

Highers 1st sitting
AAAB or **AABBB**

Highers 2nd sitting
AAAABB or **AAABBBB**

A Levels **AAB**

Accounting
UCAS NN45

Business Enterprise
UCAS NN15

Business Law
UCAS NM52

Business Technology
UCAS GN25

Economics
UCAS LN15

Finance
UCAS NN35

Hospitality & Tourism Management
UCAS NN5V

Human Resource Management
UCAS NN65

Management
UCAS NN25

Management Science
UCAS NG52

Psychology
UCAS NC58

For full entry requirements, please see table on page 120.

Contacts
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

Course-specific enquiries
t: +44 (0)141 548 3736
e: contact-marketing@strath.ac.uk

Marketing

The Department of Marketing at Strathclyde is highly regarded by employers and is widely recognised as the leading centre of marketing education and research in the UK. The Department also has the recognition of professional bodies such as the Chartered Institute of Marketing.

Marketing is an exciting, constantly evolving discipline, relevant to the workplace and society. Its scope is wide-ranging and will equip you for a variety of marketing and management careers in commercial and non-commercial organisations, both large and small.

In dynamic, competitive markets which are often uncertain and hard to predict, it is essential that organisations both attract and retain customers if they are to remain competitive and achieve their objectives. Marketing recognises the importance of understanding customer requirements, providing added-value products and services, communicating their availability and creating customer satisfaction.

Course Description
Year 1: Introduction to Marketing provides an introduction to the broad principles of marketing and considers what is involved in the management of marketing within an organisation.

Year 2: Consumer Behaviour develops a theoretical understanding of the factors that influence buyers and Marketing Research explores the ways in which information about customers and competitors can be analysed and used when taking marketing decisions.

Year 3: Marketing Communications examines the theories and techniques underpinning how marketers connect and communicate with customers and other stakeholders. Strategic Marketing explores the role of marketing in formulating, planning, implementing and evaluating marketing strategies, objectives and tactics. Choice of options in Years 2 & 3 includes: Essentials of International Marketing, Retail Management, Marketing of Services and E-marketing.

Year 4: Brand Management demonstrates the value of brands to firms and consumers. Options in Year 4 include: International Business Management, Advances in Marketing Communications, Managing Customer Relationships, Advances in Consumer Behaviour, Sports Marketing, Marketing Channels.

Teaching and Assessment
Interactive teaching with small, focused tutorials supplements formal lectures. A web-based virtual learning environment supports teaching.

A range of innovative group projects and individual assignments involve case studies, group presentations, market research projects, debates, design of communication activities and development of strategic marketing plans. In your Honours year you undertake a dissertation.

Careers
Our graduates are valued by employers in a number of diverse areas, both in the UK and overseas and many are now in high-earning senior posts. Household names, including Shell, Procter & Gamble, Tennents and Sainsbury's, target Strathclyde as one of only a small number of UK universities which they approach for graduate recruitment.

Potential employers include not just the commercial sector and large companies, but also the sports and leisure, arts and charities/not-for-profit sectors.

Examples of employers include: L'Oréal, GlaxoSmithKline, Scottish Media Group, Faulds Advertising, ScottishPower, Caledonian Breweries, Reebok UK Ltd, Accenture, The Royal Bank of Scotland, Scottish Enterprise, Highland Spring and Compaq.

Subject Combinations
Marketing can be studied to single Honours, or joint Honours in combination with the subjects listed left. To apply for any of these combinations, you should use the code specified. If you wish to study Marketing but are unsure about other subjects, you should apply under Marketing **(UCAS: N500)**.

Marketing can also be studied in the following Business School programmes:

- BA (Honours) International Business **(UCAS: N120)**
- Masters in International Business & Modern Languages **(UCAS: NR19)**

BA (Honours)

International Business

UCAS N120

Highers 1st sitting
AAAA or **AAABB**

Highers 2nd sitting
AAAAAB or **AAAABBB**

A Levels **AAA**

BA (Honours)

International Business including Accounting

UCAS NN14

Highers 1st sitting
AAAA or **AAABB**

Highers 2nd sitting
AAAAAB or **AAAABBB**

A Levels **AAA**

For full entry requirements, please see table on page 120.

Contact
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

International Business

Successful organisations throughout the world recognise the importance of operating in a global market and economy, while adapting to the local, cultural requirements. Graduates with the knowledge of international business and the experience of having studied abroad are in demand.

The International Business (IB) degree programme will develop your understanding of international business and the different approaches and challenges involved in operating across borders.

Specialisms
On the International Business degree, you can choose from the following business subjects:

- Accounting*
- Business Enterprise
- Business Technology
- Economics
- Finance
- Hospitality & Tourism Management
- Human Resource Management
- Management
- Management Science
- Marketing

* Study of Accounting on the BA in International Business may not lead to accreditation for entry to the Institute of Chartered Accountants of Scotland.

On the IB programme you receive:

- a programme dedicated to International Business, offering specialisms in your chosen business discipline
- a life-changing experience where you will study abroad for at least one semester in your third year at one of our international partner institutions; this experience will add value to your CV and enhance your understanding of international business from a different country's perspective
- a choice of specialism within the subject disciplines offered within the Strathclyde Business School
- a Management Development Programme designed to enhance your business skills and competencies, including an experiential project in your third year
- an excellent degree which will prepare you for the world of international business

Course Description
Years 1 & 2: Over the course of the degree there is a core focus on International Business, with classes in Management & International Business (Year 1), International Business Analysis (Year 2) and Managing Across Cultures & Frontiers (Year 3). In addition to the core in International Business you can choose from a selection of disciplines across the Business School. At the end of your first year, you will choose two of your Business subjects to take into second and third year.

Year 3: You will normally study classes in business and international business, in English, at a partner university or business school elsewhere in Europe, South East Asia, Australasia or North America. This will be for at least one semester. Throughout the first three years of the degree you will undertake the Management Development Programme, which is designed to develop your business skills & competencies. The third year of this programme is experiential in nature, enabling you to undertake a real life business project.

Year 4: The Honours year International Business class is Issues & Trends in International Business and you also study a Business specialism. You will write a dissertation project report with specialist support, investigating a topic relating to the expertise you have developed over your degree.

Teaching and Assessment
Teaching includes lectures, seminars, tutorials and workshops. Assessment varies from class to class, but includes case study work, presentations, written and oral exams, essays, projects and the Honours research dissertation. Throughout the programme there will be guest lectures from industry and our international partners.

Careers
Graduates who can excel internationally in industry, finance, commerce or the public sector are in demand: international business knowledge combined with the experience of study abroad will set you apart. International Business graduates pursue careers in European sales, international banking, international publishing, business analysis, export agencies, tourism and management consultancy. Some of the firms recruiting our graduates are listed on pg 147.

Masters in

International Business & Modern Languages

UCAS NR19

Highers 1st sitting
AAAA or **AAABB**

Highers 2nd sitting
AAAAAB or **AAAABBB**

A Levels **AAA**

For full entry requirements, please see table on page 120.

Contact
Business School Admissions
t: +44 (0)141 548 4114
e: sbs-adviser@strath.ac.uk

International Business & Modern Languages

The globalisation of industry presents excellent career opportunities for students who can combine good language ability with a sound knowledge of international business and an understanding of different cultural approaches to business.

International Business & Modern Languages (IBML) is a five-year Masters-level degree programme designed for those who wish to acquire a firm foundation in essential business subjects at the same time as developing the ability to conduct business in a foreign language.

On this programme, you will be able to:

- capitalise on your ability by studying languages to Masters level
- develop your understanding and knowledge of International Business to the same depth as those on the International Business degree (see preceding course entry)
- prepare for a business career with demonstrable management potential; the Management Development Programme builds essential management skills
- ensure your language fluency in a year abroad as well as gaining the confidence to do business overseas and in other cultures – a real winner for employability

Specialisms
On the IBML degree, you can choose from the following business subjects:

- Business Enterprise
- Business Technology
- Economics
- Finance
- Hospitality & Tourism
- Human Resource Management
- Management
- Management Science
- Marketing

On the IBML degree you can choose from a list of languages on offer. You can follow two languages to Masters level or choose one language to Masters level and use the other language stream to study a selection of languages, e.g Mandarin, Arabic, alongside your main language. The elective language is studied for a period of one year with another elective selected in Years 2 and 3. On the IBML degree, you choose one of the following Modern Languages:

- French
- Italian
- Spanish

Course Description
Years 1, 2 & 3: Each of the first three years centres around a core of classes in International Business and the Management Development Programme. In Year 1, in addition to International Business and Management Development, you choose two main languages, or one main language with an elective language to be studied for one year. You will also take two business subjects. In Years 2 and 3, you will continue with your chosen Business Subject and two main languages, or one main language with an elective language in each year.

Year 4: This year is normally spent in a business school (or equivalent) in the country of your chosen language, developing confidence in the language and understanding of its culture. Alternatively, you may undertake an appropriate work placement.

Year 5: In your final year you study Issues and Trends in International Business and your business specialism and further develop skills in your languages. You investigate a topic within real businesses and industries and supported by a specialist supvervisor, present it in a well-crafted report.

Teaching and Assessment
Teaching on this programme is delivered in both Strathclyde Business School and the Faculty of Humanities & Social Sciences. The language teaching is a bespoke programme for students following this degree, with emphasis on language for business. Within the Business School our international partners will also contribute in the form of guest lectures and business games.

Assessment includes case study work, presentations, written and oral exams, essays, projects and the Masters research dissertation.

Careers
There is well-established interest among employers in graduates who combine a strong business knowledge with language ability. As international trade and global commerce become ever more important, demand is increasing for graduates who can demonstrate competence in both specialist international business and language and cultural fluency.

Recent graduates have been recruited by major firms such as Accenture, BMW, Commerzbank, Dresdner Kleinwort Benson, IBM, Kleenex, Procter & Gamble, Deloitte, PricewaterhouseCoopers, The Royal Bank of Scotland and ScottishPower.

Admissions

ENTRY REQUIREMENTS

The most common and straightforward way for you to demonstrate your academic ability is through your results in national examinations, but we also acknowledge academic potential and motivation. We will take alternative qualifications and additional factors into account when making our decisions. Detailed entry requirements are given within each Faculty section. However, everyone is considered on an individual basis, so please do not hesitate to contact a Department to discuss your situation and find out more about your position with regard to gaining a place at Strathclyde.

UCAS Tariff

The University does not express its offers in terms of UCAS tariff points.

Alternative Qualifications

We accept a wide range of qualifications. The contacts named for each course welcome your enquiries about your qualifications, or the Recruitment and International Office can be a helpful starting point (t: +44 (0)141 548 2814, e: ugenquiries@strath.ac.uk).

General Entrance Requirements

All applicants must demonstrate proficiency in English and Maths (or a Science). For UK students this usually means Standard Grade 3, Intermediate 2 at C, or GCSE grade C. Higher English is always desirable.

SQA Highers

As well as meeting specific subject requirements, applicants are expected to reflect their course interests by offering Highers which demonstrate appropriate skills or knowledge. We value breadth, so every Higher offered does not need to be related to the degree course you are applying for, but our academic selectors may focus on the subjects they consider more relevant when making their offers. If in doubt please check with the admissions contact for your course.

Two Sittings of Highers

If Scottish students do not meet the grades required in S5 we generally look for more over two sittings. We have estimated our S6 standards on our course pages, but the level of competition will vary from year to year and this will be reflected in the offer you receive from us. If you have taken Highers in S4 please enquire through the appropriate course contact for guidance on how this might affect your offer.

Sitting Highers at Colleges of Further Education

Applicants presenting Highers for entry should be aware that the University will only consider Highers taken over a maximum of two sittings. Applicants who have taken Highers in 5th and 6th year at school and are progressing to college before applying to the University should contact the department they wish to study in for advice about the most appropriate FE qualification for entry.

Advanced Highers

We have a high regard for the Advanced Higher (A-C) as a preparation for university study. A relevant Advanced Higher will often overlap with first-year university work and give you a real head start, eg an Advanced Higher in a Science or in a Language you plan to study, or Advanced Higher Maths for Engineering. Students with good Advanced Higher qualifications may in exceptional cases gain second-year entry. For individual Department's approach to the acceptance of Advanced Highers see the entry requirements table within each faculty section.

Scottish Baccalaureate

The University welcomes applications from candidates offering the Scottish Baccalaureate. The Advanced Highers will particularly benefit students going on to study related degree courses and the Interdisciplinary Project will develop useful research skills.

A/AS Levels

The University welcomes a combination of A2 and AS Levels. Any required subject specified at Scottish Higher grade B will generally be accepted at AS Level grade B. Second-year entry may be possible with high grades in relevant A Levels.

European, International and Other Qualifications

The University welcomes applicants with a range of equivalent qualifications to those specified, including OU credits, some professional exams and many European and international qualifications. Please seek advice from the appropriate course contacts. See pg 151 for more detailed information for international students.

Summer School
Summer School offers applicants the opportunity to experience first-year University study. It may also be a condition of offer for some applicants. A variety of academic subjects will be offered – previously these have included Chemistry, Introduction to Business Management, English, Mathematics, Physics and Psychology.

The Summer School runs from June to August. Study and IT skills classes are threaded throughout the seven-week timetable. If you attend a FOCUS West school you should receive an invitation to attend.

Contact
Lynda Scott
t: +44 (0)141 548 4314
e: lynda.scott@strath.ac.uk
www.strath.ac.uk/cll/alp.access/summerschool

Top Up
If you attend a GOALS or FOCUS West school you may have the chance to take the Top Up programme in school. If you gain BBB or better on the programme we will take your Top Up grades into account along with your Highers when we make our admissions decision.

Pre-entry Access Course
This evening course provides an entry route to the BA in Arts & Social Sciences and some courses the Strathclyde Business School and the Faculty of Humanities & Social Sciences. A Law module is available for those who wish to gain entry to the LLB.

Subjects
English, History, Modern Languages, Politics, Psychology, Law

Attendance
Monday evenings 6-8pm, mid-September to mid-May. Students choose three subjects and study a seven-week module in each.

Assessment
An essay within each module, plus a written exam at the end of the academic year.

Progression
If the Pre-entry Access course is completed successfully, the student may, dependent on the

Admissions

level of performance, be considered for entry to:

- the full-time and part-time BA in Arts & Social Sciences
- the full-time and part-time LLB in Law
- certain courses within the School of Education
- certain courses in the Business School

Students who wish to be considered for the LLB degree course must take both the Introduction to Law and English modules. Students who do not have English as their first language must take the English module. Students should also note that entry is competitive and the UCAS personal statement may be used as a further selection criteria in addition to the Pre-Entry course result. We are unable to guarantee that attainment of the required mark will result in the offer of a place on your chosen degree programme.

Entry Requirements
There are no formal entry qualifications: first-come, first-served.

Fees
£300. Students on low income or benefits can apply for a fee waiver.

Contacts
Pre-entry Course Secretary
Centre for Lifelong Learning
t: +44 (0)141 548 4389
www.strath.ac.uk/cll/alp/access

Adult Information Service
t: +44 (0)141 548 4248

Mature Students and College Leavers

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. At Strathclyde, we are keen to encourage access to higher education throughout the community and concessions are made with regard to the entry requirements for most courses if you are returning to education after substantial life and work experience (see table on pg 156). We will normally look for evidence of some recent academic study and/or grounding in any core subjects. For certain vocational courses, relevant experience is essential.

College Leavers
For students applying from college, we welcome qualifications such as HNC/D and Highers which are considered for entry to our courses. College applicants presenting Highers for entry should be aware that the University will only consider Highers taken over a maximum of two sittings. Applicants who have taken Highers in 5th and 6th year at school and are progressing to college before applying to the University should contact the department they wish to study in for advice about the most appropriate FE qualification for entry.

The Recruitment & International Office offers advice on coming to university from college or as a mature student, including entry routes, student finance and career prospects. You can also arrange an informal interview with a Recruitment Adviser.

Contact
Debbie Duncan
Recruitment & International Office
t: +44 (0)141 548 4248
e: d.duncan@strath.ac.uk

APPLICATIONS

Applying through UCAS
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).

Timescales
1 September 2012 - 15 January 2013: Main application period. Please note that a final decision on your application may not be made until after 15 January 2013 to enable applications to be assessed and considered on an equal and fair basis.
End June 2013: Closing date for UCAS accepting applications.

UCAS extra
Extra has been designed for applicants who have been considered by all five of their university choices, but have not been offered a place, or who have declined all offers. It allows them to make additional choices through UCAS, one at a time. Extra runs from late February to early July. Applicants are welcome to contact the University's Recruitment & Graduate Office for guidance.
t: +44 (0)141 548 2814
e: ugenquiries@strath.ac.uk

Deferred Entry
If you are considering deferring entry (ie applying in January 2013 for entry in September 2014), please contact the Academic Selector in advance of submitting your UCAS application as deferred entry may not be possible for some courses.

Protection of Vulnerable Groups
Entry to certain courses, where interaction with children or vulnerable adults is necessary, requires registration with the Protection of Vulnerable Groups Scheme. The procedure will be detailed during the application process.

Interviews
You may be invited to an interview when you apply. For some of our vocational courses, a selection interview is an essential part of the process. This interview will assess whether your intended course and subsequent career seems a suitable choice for you and you may be competing against other candidates for a limited number of places. For other courses, the purpose is simply to give you further information about your chosen course and to allow us to take additional factors into account as well as your academic qualifications.

TUITION FEES AND SUPPORT
(UK and EU Students)

Money is always high on the list of priorities of every student. Central to your student budget will be Tuition Fees. Below we outline some of the variables in these fees.

Student finance arrangements are affected by political devolution in the UK and are subject to change by government. The financial position of students domiciled* in Scotland is therefore different to that of students domiciled* in England, Wales or Northern Ireland. The information shown below is based on government policy at the time of going to print. Applicants or their families can contact the Student Financial Support Team for advice and further information
t: +44 (0)141 548 2753
e: s.finance@strath.ac.uk

For students starting a full-time first undergraduate degree in Scotland in autumn 2013, the financial arrangements are likely to be as follows:

Students domiciled* in Scotland
Students in this category will normally not 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 for Scotland (SAAS). Note: Some Scottish-domiciled students may be required to meet their own tuition fees, eg if they have received support for previous study in higher education. If in doubt, contact SAAS (www.saas.gov.uk).

SAAS award bursaries of up to £2,640 a year for young Scottish-domiciled students from lower income backgrounds.

Student Loans are available on a means tested basis, with entitlement varying from around £915 per year (minimum for those living away from home) to approximately £5,417 per year (maximum for those living away from home).

There are supplementary allowances available, although please note that most of these are means-tested. They include: Dependant's Allowance, Disabled Students Allowance (which is not means-tested), Lone Parent's Grant, Lone Parent's Childcare Grant, and travelling expenses.

Students domiciled* in England, Wales & Northern Ireland
For students in this category there will be a tuition fee of £9,000 per annum. 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. The cost will be capped at £27,000 for a four-year Bachelor Honours degree. Five-year Integrated Masters degrees (MEng, MSci, MChem, MMath, MPhys) will incur an additional year's payment of £9,000 for which a tuition fee loan will also be available. Exceptionally the MPharm is a four-year Masters course and students will pay £9,000 for each of the four years.

Students will be entitled to apply a living cost loan and (depending on parental income) some students may be eligible for a maintenance grant. Details can be obtained from the relevant funding authorities:

England: Department for Education and Skills
www.dfes.gov.uk/studentsupport

Northern Ireland: Education & Library Boards
www.delni.gov.uk/studentfinance

Wales: Student Finance Wales
www.studentfinancewales.co.uk

* Country of domicile is usually determined by parental address for students under 25 years of age, or the student's home address for students who are over 25 or who are wholly independent of their parents. EU (non-UK) nationals are eligible to have their fees paid by the Student Awards Agency for Scotland. Please contact the Agency for more information. International applicants can contact the Recruitment & International Office.

Admissions

INTERNATIONAL STUDENTS

General Guidance

Each year, the University welcomes students from more than 100 countries who quickly become part of our vibrant, cosmopolitan community. If you are an international applicant, the following information is designed to help you with your decision-making and the application process.
Students from non-European Economic Area (EEA) countries and Switzerland who normally require a visa to study in the UK need to obtain 40 points in order to be given a Tier 4 Adult (General) Student Visa. Points are gained as follows:

- A CAS number (Certificate of Acceptance for Studies) (30 points) will be issued by the University of Strathclyde when you accept our Offer of Study, meet any conditions mentioned in our Offer of Study, and pay the University's standard deposit of £2,000. This 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.
- You will be given the remaining 10 points when you provide evidence to the Entry Clearance Officer who is considering your visa application that you have maintenance of £600 per month for the first nine months of your study; an additional £400 per month for the same period is required for every dependant who may accompany you.

Further details and up-to-date information on visa requirements can be found on the following websites:
www.strath.ac.uk/rio

UK Council for International Student Affairs
www.ukcisa.org.uk

How to Apply

Degree-seeking students
All applications for undergraduate degrees must be made through the Universities and Colleges Admissions Service (UCAS) see pg 150.

Non-degree seeking students
Students wishing to spend a year or semester at Strathclyde outwith an exchange agreement should apply through the Recruitment & International Office. The University admits students currently registered for a degree at their home university and full credit is normally transferred on successful completion of classes taken at Strathclyde. Exchange students should apply through their home university.

Contact
Recruitment & International Office
t: +44 (0)141 548 2913
e: international@strath.ac.uk

Entry Requirements

Degree-seeking students
Strathclyde admits students with a range of qualifications (see table on pg 159). For advice on whether your qualification is acceptable, please contact your nearest British Council office or the University's Recruitment & International Office (details above).

Non degree-seeking students
Strathclyde admits students currently registered for a degree at their home institution. You should be of good academic standing as set out by your home institution. When submitting the non-graduating application form (available from the Recruitment & International Office), you should include details of your academic progress to date, together with academic references.

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 or TOEFL exams are the most acceptable.
IELTS: The overall score required is normally 6.5 or successful completion of a suitable preparatory English language course with no individual component below 5.5.
TOEFL: The overall score required is normally IBT 90-95 (Internet-based test) with minimum scores of 21 in Listening and Writing, 22 in Reading and 23 in Speaking.

Note: Certain courses have higher English Language requirements, please refer to individual course information for details.

The University's English Language Teaching Division offers both intensive and non-intensive courses throughout the year and the Pre-entry and pre-sessional courses run from April to September. One month of pre-sessional English language tuition is available free of charge to international students paying full overseas fees. For additional support during term-time, free tuition is also available for up to four hours each week for international students paying full overseas fees.

Contact
Language Learning Centre,
English Language Teaching
t: +44 (0)141 548 3065
e: elt@strath.ac.uk
www.strath.ac.uk/elt

Key contacts for International Students

British Council
www.educationuk.org
University of Strathclyde
www.strath.ac.uk/rio/prospective

Academic Departments

If you have any queries regarding your proposed course of study, please contact the member of academic staff whose name is given in each course description in this prospectus.

Money matters for International Students

Students (degree-seeking and non-degree seeking) from non-EU countries must pay full overseas fees. For up-to-date information on tuition fees visit www.strath.ac.uk/tuitionfees

EU degree-seeking students
EU students from outwith the UK who are studying a full degree programme are normally subject to the same tuition fee arrangements as Scottish domiciled students (see pg 151 for details). In order to qualify for these arrangements, you must meet all of the following conditions:

- be an EU national, or the child or stepchild of an EU national
- have been ordinarily resident in a member state of the EU or elsewhere in the EEA and Switzerland for the three years immediately before the start of the academic year
- be taking a course of full-time study in Scotland and plan to graduate in Scotland

An application should be made to the Student Awards Agency for Scotland (www.saas.gov.uk) as soon as you have received an offer. Please note that students in this category are not eligible to apply for a student loan to assist with living costs.

Non degree-seeking EU students receiving credits
As a visiting student to the University of Strathclyde, you will be required to pay tuition fees for the duration of your study period at this University.

Support for International Students

International students can make use of all the University's Student Support Services. You will have an opportunity to meet representatives of all the services at orientation/information sessions organised by the Information and Advice Team at the start of each semester. Information and Advice staff can provide advice throughout your time at Strathclyde on issues such as immigration (visas), financial, academic or personal matters.
e: infoandadvice@strath.ac.uk

Social Life

The Information & Advice Team also promotes social life on and off-campus and will put you in touch with the many clubs, societies and national groups in the University. There is an International Students' Club which organises weekend trips to other parts of Scotland, film and theatre nights, day tours, cultural events and a weekly midweek meeting in a range of Glasgow venues. Details of these activities will be sent to your Strathclyde email address every week.

Visit Us

www.strath.ac.uk/rio/visitingopportunities

Our Open Days are held each year in September for prospective applicants.

2012
Monday 3 September 6 - 8pm)
Tuesday 4 September (9.30am - 2.30pm)

2013 (provisional)
Monday 2 September 6 - 8pm)
Tuesday 3 September (9.30am - 2.30pm)

Visit Days
If you have missed the Open Day, it is still possible to visit the University and you can find a list of dates on our website. During the visit you will have the opportunity to find out more about the University and its courses, take a campus tour and ask questions. If you would like to book a visit please sign up at **www.strath.ac.uk/rio/visitingopportunities**

Applicant Visits
These sessions provide an opportunity for applicants who hold an offer of admission to find out more about the degree for which they have applied, as well as the services available to students at the University. Applicants to the Faculty of Science and the Strathclyde Business School will be invited to attend an information session in March. Individual departments in the Faculty of Humanities & Social Sciences and the Faculty of Engineering may arrange visiting opportunities and interviews (some courses require attendance at an interview as part of the professional requirement for admission) once the application has been received.

If you have a disability and think that you will need assistance or adjustments to help you participate in any of the above applicant events, please contact the Disability Service.
e: disabilityservice@strath.ac.uk **Minicom:** +44 (0)141 548 4739
www.strath.ac.uk/disabilityservice

Visiting

By Air

Glasgow Airport
(15-20 minutes drive;
regular airport buses)
www.glasgowairport.com

Edinburgh Airport
(45 minutes drive)
www.edinburghairport.com

Prestwick Airport
(50 minutes drive;
regular train service)
www.glasgowprestwick.com

By Rail

High-speed Intercity rail service between London and Glasgow Central Station (five hours) and between Edinburgh and Glasgow Queen Street Station (50 minutes).

Passenger enquiries
t: 08457 484950 (within the UK)
t: +44 (0)20 7278 5240 (from outwith the UK)

By Coach

Buchanan Bus Station
t: +44 (0)141 332 9644

By Car

From England and the south via the M6 and M74 (A74) motorways. Leave the M74 Jct 4 to join the M73 Jct 1. Leave the M73 Jct 2 to join the M8 Jct 8 westbound. Exit the M8 Jct 15 for the University's John Anderson Campus and Jct 25 for Jordanhill Campus.

From Stirling and the north via the M9, M80 (A80) and M8 motorways. Traffic from Fife should follow signs for Kincardine Bridge and then join the M876. Exit the M8 Jct 15 for the University's John Anderson Campus and Jct 25 for the Jordanhill Campus.

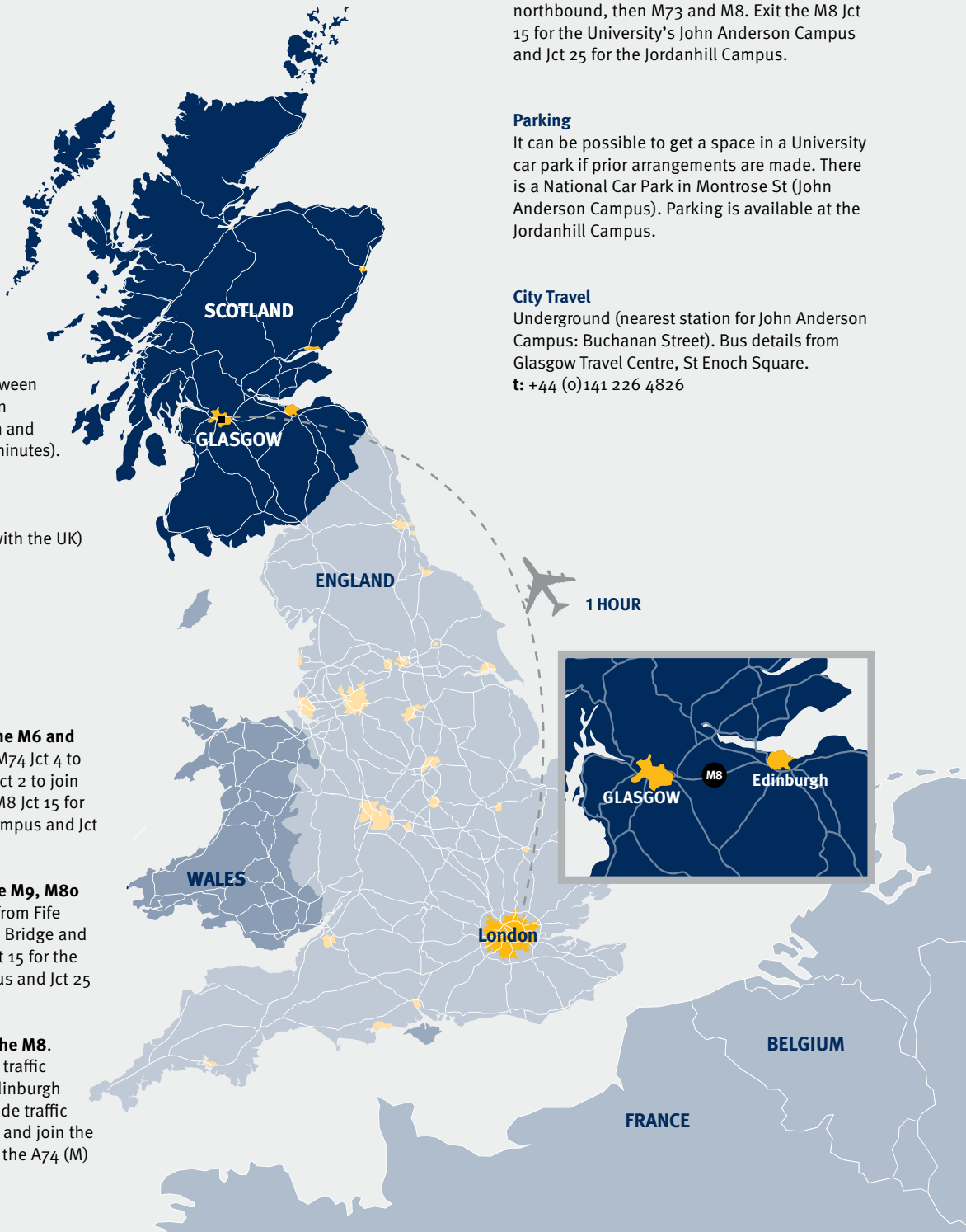
From Edinburgh and the east via the M8. East Lothian and Northumberland traffic on the A1 should take the A720 Edinburgh City By-pass to join the M8. Tyneside traffic should take the A69 Carlisle Road and join the M6 at Jct 44, the intersection with the A74 (M) northbound, then M73 and M8. Exit the M8 Jct 15 for the University's John Anderson Campus and Jct 25 for the Jordanhill Campus.

Parking

It can be possible to get a space in a University car park if prior arrangements are made. There is a National Car Park in Montrose St (John Anderson Campus). Parking is available at the Jordanhill Campus.

City Travel

Underground (nearest station for John Anderson Campus: Buchanan Street). Bus details from Glasgow Travel Centre, St Enoch Square.
t: +44 (0)141 226 4826



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Mature Students

Course	Highers	A Levels	HNC/HND	Other Qualifications
BA (Honours) Arts & Social Sciences	**ABB** in preferred subjects (see page 84)	**BB**	**First Year Entry** HNC Social Sciences with **A** in Graded Unit **Second Year Entry** HND Social Sciences, **ABB** in Graded Units may permit second year entry if two preferred subjects studied in depth	**Scottish Wider Access Programme (SWAP)** Access to Humanities ABB **Pre-entry Access Course** Pass mark of 60% **Open University** 60 points at level 1 or above in relevant subject(s) **Diploma of Higher Education** Social Sciences (City of Glasgow College) pass in all modules at first attempt may permit entry to third year
	Additional Information: Good reference and personal statement required			
BA (Honours) Journalism & Creative Writing	**ABB** (including English (all at one sitting)	**BB**	HNC Social Sciences; Communication; Journalism; Professional Writing with **A** in Graded Unit HND (as HNC) with **ABB** in Graded Units; direct entry to second year not offered	**Scottish Wider Access Programme (SWAP)** Please seek advice from departmental contact (see page 64) **Pre-entry Access Course** Pass mark of 60% **Open University** 60 points in Foundation Humanities & Creating Writing level 2
	Additional Information: Good reference and personal statement required			
LLB (Honours) Law	**BBBB** (Humanities subjects) at one sitting	**BB**	HND Legal Services with **AAB** in Graded Units; entry is to first year of the LLB course; entry with HNC not offered	**Scottish Wider Access Programme (SWAP)** Access to Humanities **AAA**; contact the Law School for other accepted access courses (see pg 76) **Pre-entry Access Course** Pass mark of 65% including Law, English and another subject **Open University** 60 points at level 1 or above in relevant subject(s)
BEd (Honours) Primary Education	**BBBB**	**BBB**	**First Year Entry** HNC Early Education & Childcare or Social Sciences, **B** in the Graded Unit, plus two Highers at **B** HND Social Sciences, **BBB** in Graded Units will be considered for entry to first Year **Second Year Entry** HND Supporting & Managing Learning Needs (Langside College) may permit second year entry	**Scottish Wider Access Programme (SWAP)** Access to Education; Humanities; Social Sciences **ABB** **Pre-entry Access Course** Pass mark of 60% including three Highers and relevant Maths and English requirement
	Additional Information: The General Teaching Council (Scotland) has a mandatory requirement for passes in Higher English (or Communication 4 and Literature 1) and Standard Grade Maths (credit) or Intermediate 2 Maths; Core Maths 4 is not accepted			

Course	Highers	A Levels	HNC/HND	Other Qualifications
BA (Honours) Social Work	**BBB** (preferably Humanities subjects including English)	**BC**	**First Year Entry** HNC Social Care; Social Sciences; Childcare & Education; Working with Communities; Counselling; Supporting Learning Needs; **B** in Graded Unit	**Scottish Wider Access Programme (SWAP)** Access to Humanities; Social Work **BBB** **Pre-entry Access Course** Pass mark of 60% **Open University** Please seek advice from course contact (see pg 80)
	Additional Information: English and Maths, minimum Standard Grade 2 or Int 2 C (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** including English at AS Level	**First Year Entry** Relevant HND with **AAB** in Graded Units may permit entry to first year	**Open University** 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
	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			HNC/D Sports Coaching; Sports Development; Sport Studies; Fitness, Health & Exercise with **BBB** in Graded Units; second year entry may be possible from HND	
	Additional Information: Higher English at C or equivalent required			
BA (Honours) Strathclyde Business School	**ABB** including English (For Accounting: as above including Maths at **B**; for International Business & Modern Languages: as above including **B** in the language to be studied)	**AB** Accounting: as above including Maths at **B** International Business & Modern Languages: as above including **B** in the language to be studied **BB** in your proposed two Principal Subjects may allow second year entry	Passes at **A** in all graded units are required 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 Contact SBS admissions for advice (see pg 120)	**Scottish Wider Access Programme (SWAP)** Access to Humanities **AAB**. Applications are considered on an individual basis; applicants may be invited for interview **Pre-entry Access Course** Pass mark of 60% plus (for Accounting) Higher Maths at **B** and (for International Business & Modern Languages) Higher at **B** in language to be studied **Diploma of Higher Education** Business (City of Glasgow College) pass in all modules on first attempt may permit entry to third year **Open University** 60 points at level 1 or above in relevant subject(s)

Mature Students

Course	Highers	A Levels	HNC/HND	Other Qualifications
Engineering Courses	**AAB** or **ABBB** at one sitting in required subjects (Maths and Physics for most courses); check individual course entry requirements (pps 54 - 59) for specific requirements	**BBC** at one sitting in required subjects (Maths and Physics for most courses); check individual course entry requirements (pps 54 - 59) for specific requirements	HNC/HND see individual course entry requirements	**Scottish Wider Access Programme (SWAP)** Access courses in engineering and certain science subjects are considered on an individual basis; SWAP students may be required to attend Summer School **Open University** 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
Science Courses	Minimum **BBB** gained over the last two years in required subjects; check individual course entry requirements (pps 112 - 117) for specific requirements	Minimum **BB** gained over the last two years in required subjects; check individual course entry requirements (pps 112 - 117) for specific requirements	**First Year Entry** HNC in an appropriate subject with **B** in Graded Unit **Second Year Entry** HND in an appropriate subject with **Bs** in Graded Units may allow second year entry	**Scottish Wider Access Programme (SWAP)** Access courses in science subjects are considered on an individual basis; SWAP students may be required to attend Summer School **Open University** 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

International Students

The table below provides general guidance on the range of qualifications and entry standards required for entry to the University of Strathclyde. Academic requirements vary from course to course and many degree programmes require specific subjects. You will need to check with Academic Selectors (see contact details at course entries) for further clarification. Please note that in some cases we will look for additional UK or international qualifications, eg A Levels or International Baccalaureate.

Country	Qualification	Grade range
Austria	Reifeprüfung / Maturazeugnis	1 - 3
Belgium	Diploma van Secundair / Certificate d'Enseignement Secondaire Supérieur / Abschlusszeugnis der Oberstuffe des Sekundarunterrichts	7 – 9
Bulgaria	Diploma za Sredno Obrazovanie	4 - 6
Cyprus (Greek)	Apolytirion	15 - 19
Cyprus (Turkish)	Devlet Lise Diplomasi / Lise Bitirme Diplomasi	7-9
Czech Republic	Maturitni ZKouška	2 - 3
Denmark	Studentereksamen	8 - 11
Estonia	Gümnaasiumi lõputunnistus and Riigieksam	60 – 90%
Finland	Ylioppilastutkintotodistus/Studentexamensbetyg	4 - 6
Germany	Abitur	1 - 3
Greece	Apolytirion of Eniaio Lykeio	15 - 19
Hungary	Érettségi	4 - 5
Ireland	Irish Leaving Certificate	BBBB -AAAABB
Italy	Diploma di Esame di Stato/Maturita	65 - 95
Latvia	Atestāts par vispārejo videjo izglitibu	A - C
Lithuania	Brandos Atestatus	7 - 10
Luxembourg	Diplôme de Fin d'Etudes	39 - 48
Malta	Matriculation Certificate – Advanced Level (MC)	A - C
Netherlands	Diploma Voorbereidend Wetenschappelijk Onderwijs (VWO)	6 - 9
Poland	Matura	55% – 70%
Portugal	Diploma de Ensino Secundário	14 - 18
Romania	Diploma de Bacalaureat	7 - 9
Slovakia	Maturita	1 - 3
Slovenia	Maturitetno Spricevalo	3 - 5
Spain	Titulo de Bachiller	7 - 9
Sweden	Fullstandigt Slutbetyg från Gymnasieskolan	G - MVG
USA	High School Graduate Diploma Cumulativeone	GPA (3.0-4.0) plus AP (4-5) or one SAT II (600-800)
European Baccalaureate		60 - 80%
International Baccalaureate	See relevant course entry	

The Campus

KEY

1 McCance Building
2 Livingstone Tower
3 Graham Hills Building
4 Royal College Building
5 James Weir Building
6 Thomas Graham Building
7 Centre for Sport & Recreation
7a Chaplaincy / St Paul's Building (not in view)
7b Student Union (not in view)
8 Rottenrow Gardens
9 Colville Building
10 Architecture Building
11 Sir William Duncan Building
12 Strathclyde Business School
13 Stenhouse Building
14 Arbuthnott Building
15 Wolfson Building
16 Curran Building
17 Lord Hope Building (not in view)
18 John Anderson Building
19 Chancellors Hall
20 James Blyth Court / Thomas Campbell Court
21 James Young Hall
22 Forbes Hall
23 James Goold Hall
24 Murray Hall
25 Campus Village Office
26 Garnett Hall
27 Birkbeck Court
28 Barony Hall
29 Andrew Ure Hall
30 Patrick Thomas Court
31 Henry Dyer Building
32 Collins Building / Collins Gallery
33 Ramshorn Theatre
34 Strathclyde Institute of Pharmacy and Biomedical Sciences

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. A copy of the Calendar may be downloaded via the link at www.strath.ac.uk/gpes/gmpt/academicquality/publications

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 2012, is for use by those interested in entering the University in the academic year beginning in September 2013. 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 2013 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.

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