



Not all  
universities  
focus on  
learning  
for the  
**real**  
world.  
We do.



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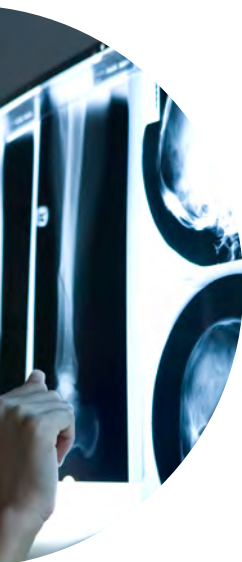
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## Quick reference guide

The following guide is designed to give you an easy to use guide to all of our undergraduate programmes.

The guide will let you see, at-a-glance, the basic information relating to each programme, such as programme title, award, UCAS code and entry requirements. The programmes are divided into six groupings, according to academic school, and each section is colour-coded to make it easier for you to find your way around this undergraduate prospectus.

**Note:** To ensure our programmes remain as up-to-date as possible and that our graduates hold the necessary relevant skills and knowledge to excel in their fields, we review and update course content on a regular basis. As such, please be aware that the course information provided in this prospectus is subject to change between the time of printing and programme commencement.



## Introduction

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## School of the Built and Natural Environment

page	award & programme title	entry requirements	essential subjects	UCAS code
13	BSc/BEng (Hons) <a href="#">Building Services Engineering</a>	270 UCAS points	Maths (H)	K242
14	BSc (Hons) <a href="#">Building Surveying</a>	285 UCAS points	English (S); Maths (S)	K230
15	BSc (Hons) <a href="#">Construction Management</a>	285 UCAS points	English (S); Maths (S)	K251
16	BSc (Hons) <a href="#">Environmental Civil Engineering</a>	285 UCAS points	English (H); Technology or Maths (S)	H220
17	BSc (Hons) <a href="#">Environmental Management and Planning</a>	285 UCAS points	English (S); Maths (S)	FN82
18	BSc (Hons) <a href="#">Fire Risk Engineering</a>	285 UCAS points	English; Maths (Int 2 Min)	H121
19	BSc (Hons) <a href="#">Property Management and Valuation</a>	285 UCAS points	English (S); Maths (S)	N232
20	BSc (Hons) <a href="#">Quantity Surveying</a>	285 UCAS points	English (S); Maths (S)	K240

## Caledonian Business School

page	award & programme title	entry requirements	essential subjects	UCAS code
25	BA/BA (Hons) <a href="#">Accountancy</a>	Higher BBBC/BBBB A-Level BCC	English (H); Maths (H)	N400
26	BA/BA (Hons) <a href="#">Business and Management</a>	Higher BBCC A-Level CCC	English (H)	NN12
27	BA/BA (Hons) <a href="#">Business Studies</a>	Higher BBCC A-Level CCC	English (H)	N100
28	BA/BA (Hons) <a href="#">Entertainment and Events Management</a>	Higher BBCC A-Level CCD	English (H) at B	NN82
29	BA/BA (Hons) <a href="#">Fashion Business</a>	Higher BBCC A-Level CCD	English (H); Art & Design (H)	JN41
30	BA/BA (Hons) <a href="#">Fashion Marketing</a>	Higher BBBC A-Level CCC	English (H)	NW52
31	BA/BA (Hons) <a href="#">Finance, Investment and Risk</a>	Higher BBCC A-Level CC	English (H); Maths (S)	B390
32	BA/BA (Hons) <a href="#">International Business</a>	Higher BBCC A-Level CCC	English (H)	N120
33	BA/BA (Hons) <a href="#">Journalism</a>	Higher ABBC A-Level BCC	English (H) or Media (H)	P500
34	BA/BA (Hons) <a href="#">Management, Technology and Enterprise</a>	Relevant HND	See Programme Entry	JN92
35	BA/BA (Hons) <a href="#">Marketing</a>	Higher BBCC A-Level CCD	English (H)	N500
36	BA/BA (Hons) <a href="#">Media and Communication</a>	Higher ABBC A-Level BCC	English (H) or Media (H) at B	PP93
37	BA/BA (Hons) <a href="#">Retailing</a>	HND Retail Management	See Programme Entry	N240
38	BA/BA (Hons) <a href="#">Risk Management</a>	Higher BBCC A-Level CCC	English (H); Maths (S)	N291
39	BA/BA (Hons) <a href="#">Sports and Active Lifestyles Promotion</a>	Higher BBCC A-Level CCD	English (H) at C	CN65
40	BA by <a href="#">Work Based Learning</a>	See Programme Entry	See Programme Entry	N/A

## School of Engineering and Computing

page	award & programme title	entry requirements	essential subjects	UCAS code
45	BA (Hons) <a href="#">3D Computer Animation</a>	Higher BBB A-Level DDE	See Programme Entry	G610
46	BSc/BSc (Hons) <a href="#">Audio Technology with Electronics</a>	Higher BBC A-Level BC	Maths (H); Physics (H)	J931
47	BSc/BSc (Hons) <a href="#">Audio Technology with Multimedia</a>	Relevant HND or equivalent	See Programme Entry	J932
48	BSc/BSc (Hons) <a href="#">Computer Aided Mechanical Engineering</a>	Higher BBC/BCCC A-Level CD/DDE	See Programme Entry	H131
49	BSc/BSc (Hons) <a href="#">Computer Engineering</a>	Higher BBC A-Level CC/DDE	Maths (H); Physics (H)	H600
50	BA/BA (Hons) <a href="#">Computer Games (Art and Animation)</a>	Higher BBB A-Level DDE	See Programme Entry	GW4G
51	BSc/BSc (Hons) <a href="#">Computer Games (Design)</a>	Higher BBB/BBBC A-Level: CC	Maths (H)	GWK2
52	BSc/BSc (Hons) <a href="#">Computer Games (Software Development)</a>	Higher BBB/BBBC A-Level: CC	Maths (H)	W280
53	BSc/BSc (Hons) <a href="#">Computing (Information Systems Development)</a>	Higher BBC A-Level CC	See Programme Entry	G400
54	BSc/BSc (Hons) <a href="#">Computing (Web Systems Development)</a>	Higher BBC A-Level CC	See Programme Entry	G500
55	BSc/BSc (Hons) <a href="#">Digital Forensic and e-Discovery</a>	Higher ABB A-Level CDD	English (H); Maths (S)	G550
56	BSc/BSc (Hons) <a href="#">Digital Security and Ethical Hacking</a>	Higher ABB A-Level CDD	Maths (H); English (H)	G551
57	BEng/BEng (Hons) BSc/BSc (Hons) <a href="#">Digital Systems Engineering</a>	See Programme Entry	See Programme Entry	See entry
58	BEng (Hons) <a href="#">Electrical Power Engineering</a>	Higher BBBC A-Level BC	See Programme Entry	H630
59	BA/BA (Hons) <a href="#">Graphic Design for Digital Media</a>	Higher BBC A-Level CC	See Programme Entry	W290
60	BSc/BSc (Hons) <a href="#">Information Technology Management for Business</a>	Higher BBC A-Level CCD	See Programme Entry	GN52
61	BEng/BEng (Hons) BSc/BSc (Hons) <a href="#">Instrumentation Systems Engineering</a>	See Programme Entry	See Programme Entry	See entry
62	BSc/BSc (Hons) <a href="#">Interactive Media Development</a>	Higher BBB A-Level DDE	Maths (H); Computing (H) at B	G440
63	BA/BA (Hons) <a href="#">International Product Design</a>	Higher ABC/BBB A-Level CDD	See Programme Entry	W240
64	BEng/BEng (Hons) <a href="#">Mechanical Electronic Systems Engineering</a>	Higher BBBC A-Level BBC	See Programme Entry	H360
65	BEng/BEng (Hons) <a href="#">Mechanical and Power Plant Systems Engineering</a>	See Programme Entry	See Programme Entry	HH32
66	BSc/BSc (Hons) <a href="#">Networking and Systems Support</a>	Higher BBB/BBC A-Level: BC	See Programme Entry	G490
67	BEng/BEng (Hons) BSc/BSc (Hons) <a href="#">Networking and Communication Systems Engineering</a>	See Programme Entry	See Programme Entry	See entry
68	BEng/BEng (Hons) BSc/BSc (Hons) <a href="#">Robotic and Mechatronic Systems Engineering</a>	See Programme Entry	See Programme Entry	See entry



## School of Health

page	award & programme title	entry requirements	essential subjects	UCAS code
73	BM/PgD <b>Midwifery</b>	Higher BBCC	English (S); Maths (S); Science (S)	B720
74	<b>Nursing</b>	Higher CC A-Level CC	English (S); Maths (S)	See entry
75	BA/BA (Hons) <b>Nursing Studies</b>	Higher BBB/BBCC A-Level CC	See Programme Entry	B700
76	BSc (Hons) <b>Occupational Therapy</b>	See Programme Entry	See Programme Entry	B930
77	DipHE <b>Operating Department Practitioner</b>	Higher CC	English (S)	B990
78	BSc (Hons) <b>Physiotherapy</b>	Higher BBBBC A-Level BBB	See Programme Entry	B160
79	BSc (Hons) <b>Podiatry</b>	Higher BBCC A-Level CC	English and 2 science subjects (S)	B985
80	BSc (Hons) <b>Radiography (Diagnostic Imaging Science)</b>	Higher BBCC A-Level BCC	See Programme Entry	B821
81	BSc (Hons) <b>Radiography (Radiation Oncology Science)</b>	Higher BBCC A-Level BCC	See Programme Entry	B822
82	BA (Hons) <b>Social Work</b>	See Programme Entry	See Programme Entry	L500

## School of Law and Social Sciences

page	award & programme title	entry requirements	essential subjects	UCAS code
89	BA/BA (Hons) <b>Business Law</b>	Higher BBBC A-Level CCC	English (H); Maths (S)	M221
90	BA/BA (Hons) <b>Criminology</b>	See Programme Entry	English (H)	M211
91	LLB/LLB (Hons) <b>Bachelor of Laws</b>	Higher AABBB A-Level ABB	English (H); Maths (S)	M114
91	Fast Track <b>Bachelor of Laws</b>	See Programme Entry	See Programme Entry	M115
92	BA/BA (Hons) <b>Social Sciences</b>	See Programme Entry	English (H)	L000

## School of Life Sciences

page	award & programme title	entry requirements	essential subjects	UCAS code
97	DipHE <b>Biological Sciences</b>	Higher CCC A-Level DD	Chemistry (S); Maths (S)	C900
98	BSc/BSc (Hons) <b>Biomedical Science</b>	Higher BBBC A-Level BCC	Chemistry (S); Maths (S)	B940
99	BSc/BSc (Hons) <b>Cell and Molecular Biology</b>	Higher BBBC A-Level BCC	Chemistry (S); Maths (S)	C760
101	BSc/BSc (Hons) <b>Food Bioscience</b>	Higher BBBC A-Level BCC	Chemistry (S); Maths (S)	D611
102	BSc/BSc (Hons) <b>Forensic Investigation</b>	Higher BBBC A-Level BCC	See Programme Entry	F410
103	BSc/BSc (Hons) <b>Human Biology with Sociology and Psychology</b>	Higher BBBC A-Level BCC	See Programme Entry	CL03
104	BSc/BSc (Hons) <b>Human Biosciences</b>	Higher BBBC A-Level BCC	Chemistry (S); Maths (S)	B120
105	BSc/BSc (Hons) <b>Human Nutrition and Dietetics</b>	Higher BBBB A-Level BCC	Chemistry (H) plus another science	B400
106	BSc/BSc (Hons) <b>Microbiology</b>	Higher BBBC A-Level BCC	Chemistry (S); Maths (S)	C510
107	BSc <b>Ophthalmic Dispensing</b>	Higher BBC A-Level CC	See Programme Entry	B502
108	BSc/BSc (Hons) <b>Optometry</b>	Higher AAABB A-Level AAB	See Programme Entry	B510
109	BSc/BSc (Hons) <b>Pharmacology</b>	Higher BBBC A-Level BCC	Chemistry (S); Maths (S)	B210
110	BSc/BSc (Hons) <b>Psychology</b>	See Programme Entry	English (S); Maths (S)	C800
111	BSc/BSc (Hons) <b>Psychology with Interactive Entertainment</b>	Higher BBCC/BBBCC A-Level CCC	English (S); Maths (S)	C8G4

## Further Information

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**Note:** This page is intended as a guide only. Please refer to individual programme entry pages for further information and more detailed entry requirements.



“At Glasgow Caledonian University, we are committed to **ensuring our graduates are global citizens with bright futures.**”

Welcome to one of the most vibrant and forward-thinking universities in the UK, Glasgow Caledonian University. Whether you are at the very early stages of considering going to university, or are on the verge of application, this prospectus should help to guide you through one of the most important decisions of your life.

We are committed to ensuring our graduates are global citizens with bright futures. Our programmes are designed to equip students with the skills and knowledge required to progress and excel in their careers. We also develop and maintain strong links with external partners locally, nationally and worldwide. Where relevant, our programmes are accredited by professional and statutory bodies and we offer invaluable work experience which enhances the employability of our students.

We continue to offer a variety of unique programmes. Our BSc (Hons) Optometry is the only programme of its kind in Scotland and we are ranked first in Scotland and in the UK top ten for research in allied health professions. We are the only university in the UK to offer a degree in Risk

Management and our range of Built Environment programmes are considered to be the best in Scotland.

We have invested heavily in recent years to ensure our learning environment is at the leading edge in terms of teaching facilities, private study and social learning space and technology. Our modern, city centre campus boasts secure student accommodation and a popular sport and recreation centre. With the innovative Saltire Centre at the heart of the University, our community of 16,000 students, from more than 100 countries and all walks of life, is a vibrant one. Our students enjoy their experience at the University, with overall satisfaction rated above the UK average and international student support recognised as outstanding by the Times Higher Education Awards.

If you would like to experience life at Glasgow Caledonian University for yourself, please visit our website or come along to one of our Open Days. It's an exciting place to be.

**Professor Pamela Gillies,**  
[Principal and Vice-Chancellor](#)

#### Student President

Deciding on which university to go to is an important step. Trust me, Glasgow Caledonian University can offer you an experience that you will not forget. My student experience here has been fantastic and memorable and I am proud to call myself a GCU graduate.

Our vibrant cosmopolitan campus is unique, modern, friendly, welcoming and ideally located. The atmosphere and relaxed environment is something that students really appreciate. Our vast mix of students come from all over the world. The diversity of the student body adds an exciting element to GCU student life.

As the Student President it is my job, along with the rest of the Students' Association, to work with the University to ensure that your time here furthers your education while at the same time making it as much fun as possible along the way. The Students' Association offers countless opportunities for you to embrace student life through a variety of activities such as sports, societies, student media, welfare volunteering and the Student Leaders Programme.

Glasgow Caledonian University is a bright and ambitious university, with an equally bright and ambitious Students' Association. Making the choice to spend your university years at GCU will help you look forward to a successful future.

I hope to see you here next year.




**Stephanie Pitticas**  
[Student President](#)



Glasgow is Scotland's **largest city** and is home to around **600,000** people.

Glasgow means '**dear green place**' and is loved by both its citizens and tourists alike.



A nighttime photograph of Glasgow, Scotland, featuring modern buildings and a river. The buildings are illuminated with warm white and vibrant green lights, which are reflected in the calm water of the river. A prominent white arch structure is visible on the left side of the frame. The sky is a deep, dark blue with some light clouds. In the foreground, there are several large, semi-transparent blue circles that serve as a design element.

It was listed by Lonely Planet as one of the **top 10** places in the world to visit in 2009.

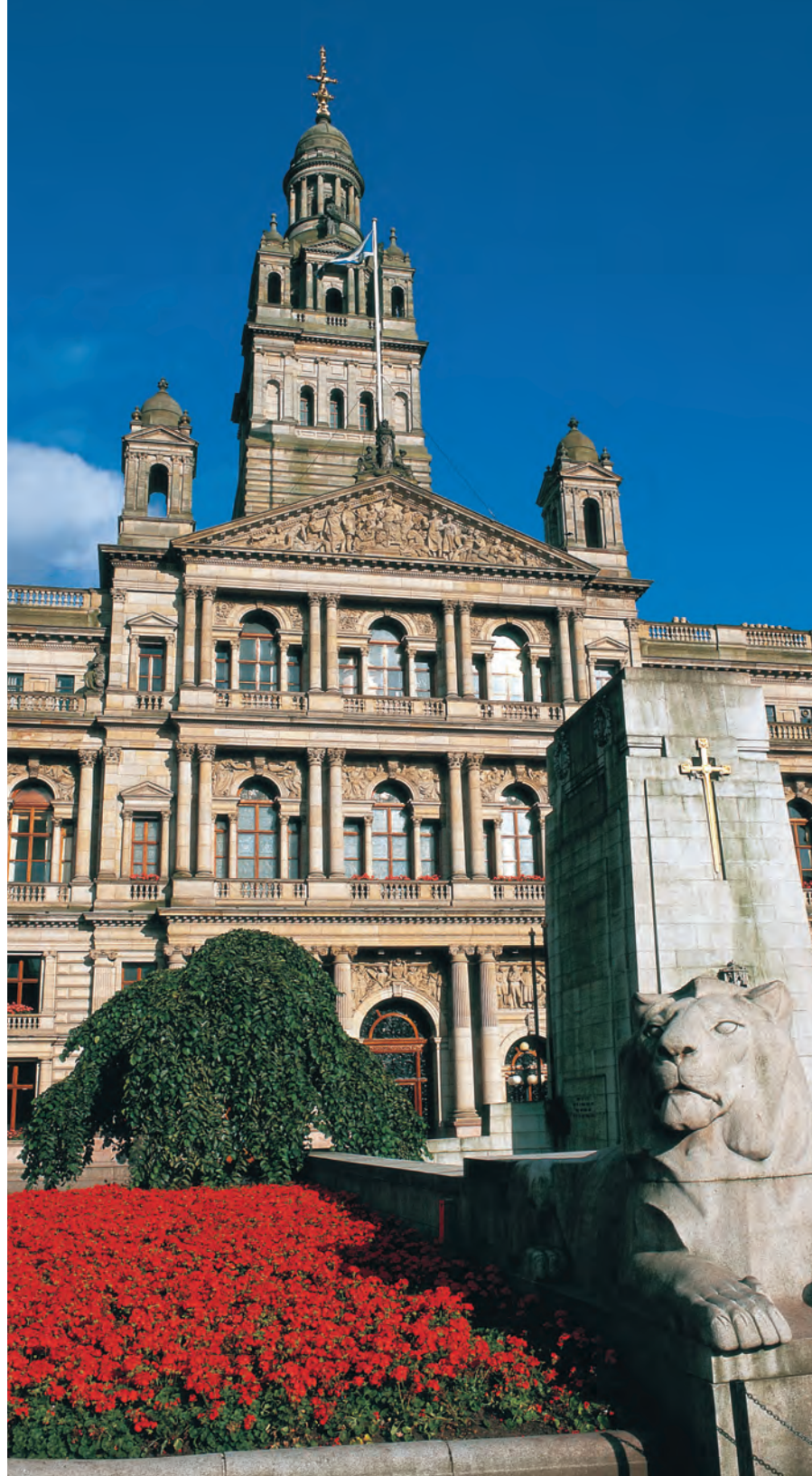


# Glasgow

City life

Glasgow is Scotland's largest city, home to around 600,000 people as well as the largest student population in Scotland. Cosmopolitan, stylish and edgy, it was recently named Britain's coolest city by National Geographic magazine, yet remains steeped in history and alight with charm and character.

The Glaswegian sense of humour is as celebrated as the warm welcome extended to its visitors, giving the city a unique, friendly atmosphere and making it easy to feel at home. Meaning 'dear green place', Glasgow is loved by both its citizens and tourists alike and was listed by Lonely Planet as one of the top 10 places in the world to visit in 2009. Hosting an exciting blend of culture, architecture, music, nightlife, shopping, sport and much more, Glasgow's appeal is endless.



**Picture captions:** Main image: The City Chambers, George Square. Clockwise: 1. Gallery of Modern Art, GoMA is the second most visited contemporary art gallery outside London. 2. The Heavy Horse. Next to the M8 motorway on the eastern approach to Glasgow. It was designed and built by Andy Scott. 4. The Barrowlands, music venue. 5. Elvis in the Kelvingrove Art Gallery and Museum. 6. Ashton Lane. 7. Buchanan Street. 8. The River Clyde. 9. Floating heads installation in the Kelvingrove Art Gallery and Museum. 10. The Botanic Gardens are located at Kelvinside in Glasgow's West End. 11. Hampden Park, home to Scotland's national football team.







### Architecture

Despite its industrial roots, Glasgow's beauty can never be overlooked. Heralded as 'Scotland with Style', the city is a monument to architecture and design, with striking examples of Charles Rennie Mackintosh's trademark Art Nouveau design in the likes of Glasgow School of Art and House for an Art Lover. The Lighthouse, Scotland's Centre for Architecture, Design and the City, also houses a changing programme of exhibitions and events and plays a key role in a number of significant design projects.

### Culture

Other cultural highlights of the city include the recently refurbished landmark Kelvingrove Art Gallery and Museum, the impressive Gallery of Modern Art, the Burrell Collection in the city's south side and the Glasgow Film Theatre (GFT), where visitors can regularly indulge in silver-screen treasures, old and new. Glasgow is also home to the Scottish Ballet and Scottish Opera, adding to the city's exciting international appeal and making it easy to see why Glasgow was once voted European City of Culture.

### Music

Recently honoured as a UNESCO City of Music, the lively music scene has produced countless famous and ground-breaking artists like Franz Ferdinand, The Fratellis, and Glasvegas in recent years. Glasgow's renowned music venues, such as the legendary Barrowlands, showcase an endless stream of musical talent and, in fact, Oasis were discovered in one of the city's most celebrated venues, King Tut's Wah Wah Hut.

### Nights out

A dazzling array of bars, restaurants, clubs, theatres and cinemas all combine to create unrivalled nightlife which attracts visitors from all over the UK and beyond. In addition to these permanent attractions, Glasgow's events diary is a busy one, with the city hosting huge international events like Celtic Connections in January, a music festival celebrating traditional celtic music, and the Glasgow International Comedy Festival every March. All in all, there's never a dull moment in this thriving metropolis.

### Shopping

For those seeking some retail therapy, Glasgow is second only to London for the best shopping experience in the UK. From giant high street shopping malls like Buchanan Galleries, to the exclusive Princes Square development and designer Italian Centre, shopping in the city can easily become an art form in itself.

### Sport

In sporting terms, Glasgow is perhaps most famous for football, with the city boasting Scotland's largest football stadia (Celtic Park, Ibrox Stadium and Hampden Park) and three professional football clubs. However, Glasgow's love of sport does not end there. Rugby, athletics, badminton, rowing and even shinty, amongst countless other sports, are all enjoyed across the city. In fact, serving as testament to its vibrant cultural appeal, welcoming atmosphere and top-notch sporting facilities, in 2007 Glasgow was chosen to host the 2014 Commonwealth Games.

### Time out

Amongst the hustle and bustle of the busy city, it's still easy to find some breathing space. With over 70 parks and gardens within the city boundaries, there is ample opportunity to relax on your own or with friends, go for a jog or simply enjoy the beauty of this 'dear green place'.

“Glasgow’s such a great city - it feels like home now.”

[Fiona, 2nd year student](#)

More than **8 in 10 graduates** find work or **further study** within 6 months of graduating.

We have **17,000 students** from more than **100 countries** and all walks of life.

The university library is based within the award-winning **Saltire Centre**.

Our innovative, modern campus is at the **heart** of Scotland's largest and most cosmopolitan city.









With our innovative, modern campus at the heart of Scotland's largest and most cosmopolitan city, Glasgow Caledonian University offers a unique learning experience with all the city has to offer on its doorstep. Formed in 1993 with the merger of the Queen's College Glasgow and Glasgow Polytechnic, the University is now Scotland's fifth largest university and has established a strong reputation for providing relevant and forward-looking programmes.

#### Our Chancellor

The Rt Hon Lord Macdonald of Tradeston CBE was installed as Chancellor of Glasgow Caledonian University in October 2007. As Chancellor, Lord Macdonald's duties include conferring degrees at graduation ceremonies, promoting the University's image throughout the world and furthering its interests at home and abroad.

Throughout his distinguished career, spanning more than 40 years, he has held senior roles in the media (including managing director of Scottish Television), business and politics. He was elevated to the House of Lords in 1998 and has held several ministerial positions in government. He is now a member of the Lords' Select Committee on Economic Affairs and is Chairman – Investment Banking Group, Europe, for Macquarie Bank Limited.

#### Leading facilities

The University's award winning, high tech campus includes, at its heart, the impressive Saltire Centre, which is home to the library and student support services. In addition, two Real Learning Cafés offer students a lively space where they can combine social time with their studies. Also situated on campus is the University's modern sports and recreation facility, the Arc and Caledonian Court, the University's student accommodation facility, lies just across the road from the main campus.

For more information on our modern campus facilities, turn to pages 128, 134 and 136.

#### Bright futures

Widening access is at the core of Glasgow Caledonian's educational philosophy. It is one of the UK's most inclusive universities, welcoming a large number of students from backgrounds not normally associated with studying at university. We also have over 4000 mature students and the largest number of part-time students in Scotland.

The University is committed to working together with local communities for the common good. Projects include The Caledonian Club, a groundbreaking initiative that has allowed children as young as three to take classes at the University, and the Grameen Caledonian Partnership, a partnership which will leverage the University's teaching and research strengths to help tackle aspects of poverty and inequality.

Creating an environmentally friendly campus on which to study, work and play is one of the University's key priorities. It is working towards achieving the EcoCampus Environmental Management System, a pro-active approach which allows universities to be recognised for addressing key issues of environmental sustainability. The University is also committed to helping students realise their potential and has established a number of student enterprise initiatives and activities to help dynamic, enterprising students get a creative and innovative project up and running.

For more details on student enterprise activities, see page 138.

#### Employer links

Maintaining strong links with industry, Glasgow Caledonian's six academic schools offer programmes which are relevant, industry-accredited, career-focussed and highly valued by employers. Strong business partnerships and the University's cutting-edge applied research activities help to ensure that our academic courses are developed and delivered in line with industry needs. These business links are also vital in ensuring students gain the best possible work placements during their degree programmes, where relevant.

#### Student support

The University prides itself on the award-winning support it provides for its students, both on and off campus. Most teaching staff operate an open-door policy, allowing students to discuss their studies with tutors outside their timetabled class times and helping to create a flexible and supportive study environment. Students also have access to a huge variety of resources and support throughout their degree.

For more information on the University's support services and resources, turn to page 130.

#### The Caledonian community

Glasgow Caledonian has a strong international focus, welcoming students from over 100 countries worldwide and helping UK students to become global citizens with the necessary skills to succeed in an international environment.

With over 16,000 students from all over the world and more than 1700 members of staff, there is a vibrant, active and diverse community at Glasgow Caledonian University and many of our students find friends for life during their time here. Joining the Students' Association provides an ideal way for students to become involved in university life, to represent their fellow students or to simply become a member of one of the many clubs or societies on campus.

For more information on the Students' Association, turn to page 132.



The School is highly regarded externally for the quality of its research, its innovative learning and teaching and the quality of its graduates. Students are given unparalleled opportunities to participate in study tours in Europe and to enjoy work or study placements abroad. While the School has firm roots in its local community it has a wide international perspective with around 30% of its academic staff coming from 15 countries outside the UK.

Peter Kennedy, Dean of the School of the Built and Natural Environment

The school is the largest in Scotland and one of the leading schools of its kind in the UK. It was recently rated top for the quality of its degree programmes in Scotland (Guardian Newspapers 2008) and is the largest provider of Built Environment graduates in Scotland. In the UK Research Assessment Exercise (RAE 2008) the school was ranked within the top 20 in the UK and it currently collaborates on a regular basis with over 40 academic bodies, both in the UK and across the globe.

#### **Industry and professional partnerships**

Well respected by its powerful industry and professional partners, the school has developed strong relationships with a wide range of commercial and public sector organisations. Many leading employers rely on us to supply them with well trained professional staff, able to cope with the challenges of the working environment.

#### **Professional accreditation**

All programmes offered by the school are approved by the appropriate professional bodies, including the Royal Institution of Chartered Surveyors (RICS), Chartered Institution of Building Services Engineering (CIBSE), Chartered Institute of Building (CIOB), Institution of Civil Engineers (ICE), Chartered Institution of Wastes Management (CIWM), and the Chartered Institution of Water and Environmental Management (CIWEM).

#### **Professional placement**

The school is unique in Scotland in providing professional placement experiences as an integral part of their programmes.

#### **Study tours**

All second year, full-time students are given the opportunity to take part in our programme of week-long study tours. Tour destinations include: France, Finland, Spain and Canada.



School of the  
Built and  
Natural  
Environment





## Student profile

Kevin McCormick

that which I cannot do, in order to learn how to do

**Name:** Kevin McCormick  
**Programme:** BSc (Hons)  
 Environmental Management and  
 Planning  
**Year of Study:** 4th

### Why did you choose your programme at GCU?

With growing concerns around sustainable development, the course gave me the opportunity to apply my interests in the natural environment and really make a difference. Also, the growth in the environmental sector offers great career prospects for graduates and the course equips you with a diverse range of knowledge and skills to increase your employability.

### What are you enjoying most about your programme?

Site visits are a favourite of mine.

### Do you belong to any university clubs or societies?

I'm a member of the Caledonian Sustainability society which enables me to keep up to date with all the latest news. The society also provides a great opportunity to build a network within the industry.

### What is your best experience so far?

Completing my 3rd year placement at a Safari Park has to be the most memorable so far. Most students find placements very useful and enjoyable.

### What advice do you have for people considering applying to university?

Have a good idea of where you want to be and what you want to be doing in a few years time. Think about what your interests are and what you enjoy - how could they be applied? Don't rush your decision!

### What do you think about Glasgow as a place to study?

I know a few people who have travelled to cities around the world and I'm surprised how many said Glasgow is one of the best. Glasgow's great, with lots to do and many people to meet.

### What single word sums up your GCU experience so far?

Diverse.

### What do you plan to do after you graduate?

I plan to travel for a while then begin my career when I get back.





# Building Services Engineering

BSc/BEng (Hons)

**UCAS code:** K242

**Entry requirements:** Higher Grade and A Level: 180 UCAS points, BBC at Scottish Higher Grade, ILC: 180 UCAS points.

**Essential subjects:** Mathematics (H).

**Recommended subjects:** English (H), Mathematics (H) and Physics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Professional accreditation:** The BSc programme entitles graduates to Associate Membership of the Chartered Institution of Building Services Engineers (CIBSE). It can also provide direct entry to year 3 of the BEng (Hons) which is part accredited for full Chartered Engineer status by CIBSE.

**Number of places:** 30.

**Mode of study:** Full-time and part-time.

**Contact:** Robert Hoare  
E: r.hoare@gcal.ac.uk  
T: +44 (0)141 331 3538  
[www.gcu.ac.uk/bne](http://www.gcu.ac.uk/bne)

**What you'll learn:** **Year 1:** Subjects covering aspects of Industrial Operation and Application as well as Electrical and Computer Technologies will be added to the Science of Engineering and Mathematics to create a broad base knowledge. **Year 2:** Expands upon first year disciplines and introduces concepts related to Building Services Engineering and Building Technology to support case study work, applying theory to practice. **Year 3:** Computer Aided Design will be introduced to complement learning in core Building Services Engineering design functions such as Air Conditioning Engineering and Heating Systems.

**Career opportunities:** Graduates of this programme enjoy career prospects covering a wide spectrum of activities throughout the design to operation stages of domestic, commercial, industrial and leisure building types. Specific opportunities include:

- Consultant design engineers
- Major contracting companies, including multi-nationals
- Public organisations including local authorities and hospital boards
- Service suppliers
- Facilities management companies.

## The school offers two distinct Building Services Engineering routes – BSc and BEng.

### BSc Building Services Engineering

This BSc programme, which can be studied on a full-time or part-time basis, aims to equip students with the essential skills required to work as a professional Building Services Engineer. Upon graduation, students will be eligible for Associate Membership of the Chartered Institution of Building Services Engineering (CIBSE). The programme is also fully integrated within an overall academic structure which can provide entry to the advanced programme of BEng in Building Services Engineering, enabling students to progress towards full Chartered Engineering status.

### BEng (Hons) Building Services Engineering

The BEng (Hons) degree in Building Services Engineering is a part-time programme dedicated to the professional development of engineers who have chosen a career related to the building services industry. It forms the academic foundation for full Corporate Membership of the Chartered Institution of Building Services Engineers (CIBSE). The course operates over four years and the syllabus includes teaching related to the design, installation and maintenance of all systems and equipment required to provide us with

a safe and comfortable 'built environment' e.g. air conditioning, heating systems, ventilation, lighting and electrical installations (often referred to as M & E). Students who possess relevant qualifications may join the programme at an advanced level.

It is essential that students on the programme gain an educational experience that is relevant, that enhances their overall understanding of industry and which trains them to approach problem-solving and design work from a wide perspective and with a sound analytical understanding.

### Why Caledonian?

While developing and reviewing this exciting degree programme, we consulted heavily with industry to ensure that graduates would be well equipped to enter the employment market in professional, well-paid positions of responsibility.

In fact, the success rate for the programme in this area is high, with most students finding employment in a relevant job shortly after graduating.

“This programme involves the design, installation and maintenance of the systems and equipment which control our built environment.”

# Building Surveying

BSc (Hons)

Graduates of this Building Surveying degree are professional experts involved in the survey, restoration, conservation and regeneration of existing buildings.

This degree is fully recognised under a Partnership Agreement between Glasgow Caledonian University and the Royal Institution of Chartered Surveyors (RICS). Chartered Building Surveyors offer professional advice on many areas relating to the purchase and construction of property, from the design of modern buildings and maintenance, to project and facilities management. Graduate careers are varied and generally well paid.

## Why Caledonian?

The Building Surveying programme is well established and has, over the years, developed very strong links with industry and the public sector. Graduates are in high demand by both local and national employers.

The school provides use of the latest equipment available on the market, including moisture meters, borescopes and thermal imaging apparatus for non-destructive testing of buildings. This allows students to develop experience in using the most modern techniques – much appreciated by employers.



**UCAS code:** K230

**Entry requirements:** Higher Grade and A Level: 285 UCAS points (preferably a combination of As and Bs at Scottish Higher Grade), ILC: 285 UCAS points from Higher grades C1 or above.

**Essential subjects:** English (S) & Mathematics (S).

**Recommended subjects:** English (H) and Mathematics (H) (at least grade B for both), a science subject (H).

**FE college students** Contact us for a copy of our College Student Supplement.

**Work placement:** Students have the opportunity to undertake an accredited work placement at the end of Year 2, returning to university study for Trimester 2 of Year 3.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Professional accreditation:** The programme is fully accredited by the Royal Institution of Chartered Surveyors (RICS). On successful completion of their Honours degree, graduates may commence working towards their professional qualification to obtain chartered membership of the Institution (MRICS).

**Number of places:** 30.

**Mode of study:** Full-time and part-time (part-time students must be in full-time related employment).

**Contact:** Harry Madden

E: [h.madden@gcal.ac.uk](mailto:h.madden@gcal.ac.uk)

T: +44 (0)141 331 3633

[www.gcu.ac.uk/bne](http://www.gcu.ac.uk/bne)

**What you'll learn:** **Year 1:** Studies include the principles of Construction Technology and Building Performance. Modules include Property Legislation, Economics and Cost Studies.

**Year 2:** You build on the foundation started in Year 1, with additional modules including Building Contracts, Structural Engineering, Health and Safety, Computer Aided Drawing and Land Surveying. **Year 3:** As well as undertaking a work placement for six to eight months, further studies include Construction Technology, Building Performance and Statutory Control. **Year 4:** An Honours dissertation with options in areas such as Conservation, Facilities Management, Advanced CAD and the Internet. Other core modules include Project Management, Building Surveying Studies and Professional Studies.

**Career opportunities:** Career prospects are excellent, not only in the UK but increasingly overseas where a UK RICS qualification is held in high esteem. Graduates are employed by private practices and in the public sector by local authorities, health trusts and other government organisations. Major blue-chip companies in the construction and property sectors actively seek our graduates, including Graham & Sibbald, Watts and Partners, and Knight Frank.



See page  
116 for entry  
requirements.

**UCAS code:** K251

**Entry requirements:** Higher Grade and A Level: 285 UCAS points (preferably a combination of As and Bs at Scottish Higher Grade), ILC: 285 UCAS points from Higher grades C1 or above.

**Essential subjects:** English (S), Mathematics (S).

**Recommended subjects:** English (H) and Mathematics (H) (at least grade B for both), a science subject (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Students have the opportunity to undertake accredited work placement at the end of Year 2, returning to university study for Trimester 2 of Year 3.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Professional accreditation:** The programme is fully accredited by the Chartered Institute of Building (CIOB) and the Royal Institution of Chartered Surveyors (RICS).

**Number of places:** 23.

**Mode of study:** Full-time and blended learning. Blended learning students must be in full-time related employment.

**Contact:** Michael McCarney  
E: mmc4@gcal.ac.uk  
T: +44 (0) 141 331 8997  
www.gcu.ac.uk/bne

**What you'll learn:** **Year 1:** The first year is a foundation level, developing knowledge of fundamental principles and practice of the construction industry, including Resource Estimation.

**Year 2:** You will focus upon discipline-specific skills. Core Construction Management skills will be taught to generate further understanding of how buildings are constructed and perform in use.

**Year 3:** Trimester 1 will consist of your industrial placement, where you will learn how to apply your knowledge in a work scenario.

Trimester 2 will further your understanding of core skills in Construction Management and construction. **Year 4:** You will undertake an Honours dissertation on a related topic of your choice and further your study from a choice of subjects including Corporate Strategy, Project Management, and Facilities Management.

**Career opportunities:** Graduates will enjoy fantastic job prospects across a variety of fields and have been employed by companies such as Bovis Lend Lease, Bouygues, Miller, Dawn Construction, Carillion and Ogilvie. The many career paths followed by graduates include construction managers, site engineers, planners, project estimators, facilities managers and building control surveyors.

It is the responsibility of the construction manager to transform the architect's creative vision into a reality. You will manage complex construction projects with a keen eye on cost, quality and, of course, time.

Construction managers can expect very rewarding careers. The UK construction industry is the biggest single industry sector in the economy, contributing almost 10% of the UK's Gross Domestic Product and employing one in ten of the UK working population. Construction Management is an integral part of this industry putting you in control of the vast activities the construction industry has to offer.

#### Why Caledonian?

The programme has been developed very much in partnership with the construction industry. This ensures that teaching modules reflect and develop current best practice and that graduates are well equipped to enter careers at management level.

The school has a close relationship with French company, Bouygues, one of the largest construction companies in the world, and students get the opportunity to visit their magnificent headquarters.



# Environmental Civil Engineering

BSc (Hons)

Civil Engineers turn complex ideas into reality. They help make some of the most innovative structures in the UK and abroad. The infrastructure for transport, energy, industry and commerce is the result of civil engineering. Our society would not function without civil engineering products.

Our degree is unique in that it incorporates environmental issues into all aspects of your learning, giving you skills which are valuable to employers and beneficial to the world in which we live. This degree will also provide you with a range of skills in planning, design and construction.

### Why Caledonian?

This unique programme incorporates all of the main principles of the discipline; Structures and Foundations, Energy, Transport and Water and enhances these by incorporating environmental issues such as Recycling, Water Treatment and Environmental Protection.

The degree draws from teaching across the many construction disciplines offered in the School of the Built and Natural Environment, the biggest school of its kind in Scotland.

**UCAS code:** H220

**Entry requirements:** Higher Grade and A Level: 285 UCAS points (preferably a combination of As and Bs at Scottish Higher Grade), ILC: 285 UCAS points from Higher grades C1 or above.

**Essential subjects:** English (H/A), Mathematics (H/A) or Technological Studies (H/A).

**Recommended subjects:** English (H) and Mathematics (H) at least grade B. Two (H/A) awards from Physics, Geography, Craft & Design or Economics.

**FE college students** Contact us for a copy of our College Student Supplement.

**Work placement:** Students have the opportunity to undertake an accredited work placement at the end of Year 2, returning to university study for Trimester 2 of Year 3.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Professional accreditation:** The programme is currently going through the reaccreditation process with the Engineering Council, with its completion expected in April 2010. With appropriate further learning, graduates can pursue chartered status.

**Exchanges:** Students may study partial or complete modules in other European countries, including Spain, France, and Finland.

**Number of places:** 30.

**Mode of study:** Full-time and part-time. Part-time students must be in full-time related employment.

**Contact:** Dr Bob Gilmour  
E: [r.a.gilmour@gcal.ac.uk](mailto:r.a.gilmour@gcal.ac.uk)  
T: +44 (0)141 331 3571  
[www.gcu.ac.uk/bne](http://www.gcu.ac.uk/bne)

**What you'll learn:** **Year 1:** Studies will develop a good foundation level of Civil Engineering, Surveying and Structures.

**Year 2:** Principles of Hydraulics, Contracts Management, Structural Design and Geotechnics amongst other subjects. **Year 3:** As well as undertaking a work placement for six to eight months, studies include Structural, Ground and Water Engineering. **Year 4:** Honours project, Environmental Civil Engineering subjects such as Water Quality & Treatment, Waste Management and Environmental Protection.

**Career opportunities:** Employment opportunities exist with civil engineering contractors engaged in road building, quarrying, construction of large buildings and bridge structures. Local authority positions also exist in planning and the administration of major works. Within an engineering consultant's office, you may be designing, drawing and describing major projects to the contractor. In the environmental field, you could be monitoring and reporting on the impact of works, as well as seeking design solutions which maximise sustainability and minimise environmental degradation.





# Environmental Management and Planning

BSc (Hons)

**UCAS code:** FN82

**Entry requirements:** Higher Grade and A Level: 285 UCAS points (preferably at C Grade or above), ILC: 285 UCAS points from Higher grades C1 or above.

**Essential subjects:** English (S) and Mathematics (S).

**Recommended subjects:** English (H) and Mathematics (H), a science subject (H), Geography (H), Modern Studies (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Students have the opportunity to undertake an accredited work placement at the end of Year 2, returning to university study for Trimester 2 of Year 3.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Professional accreditation:** The programme is fully accredited by the Chartered Institution of Water and Environmental Management (CIWEM), and the Royal Institution of Chartered Surveyors (RICS).

**Exchanges:** There is the possibility for student exchange, generally at Level 3, in Norway, Finland, Spain and France.

**Number of places:** 15.

**Mode of study:** Full-time.

**Contact:** Dr Caroline Gallagher  
E: C.E.Gallagher@gcal.ac.uk  
T: +44 (0) 141 331 3938  
[www.gcu.ac.uk/bne](http://www.gcu.ac.uk/bne)

**What you'll learn:** **Year 1:** Studies include a broad look at Urban Studies, Legislation and Economics as they relate to the profession, Land Surveying and Management of Natural Resources. **Year 2:** You are introduced to key themes, such as: Environmental Management, Economics and Project Evaluation, Environmental Science and Measurement, Interactions between society and the natural environment, Urban Planning. **Year 3:** There is an opportunity to undertake practical work experience in a relevant organisation in Environmental Planning, Geographical Information Systems (GIS), Sustainable Development. **Year 4:** Honours dissertation in a preferred specialism. Specialist modules include: Waste Management, Water Quality and Treatment or Urban Regeneration.

**Career opportunities:** Sustainability, planning and development are key topics for local government and also for the private sector. Increasingly, professionals with a good understanding of all these aspects are needed for work in local authorities, regulatory bodies (e.g. SEPA, EA), development agencies, the construction and property industry, waste management organisations, consultancies and conservation projects.

This BSc (Hons) Environmental Management and Planning degree is designed as part of a suite of degrees accredited by the Royal Institution of Chartered Surveyors (RICS).

Environmental Management and Planning graduates offer professional advice on how to make towns, cities and rural areas better places to live and work. They are experts who understand the impact on the environment of construction and regeneration and also the need for effective management of waste, energy, contaminated land and socio-economic issues.

### Why Caledonian?

The programme has been developed to ensure that teaching modules reflect and develop current best practice and cater for the needs of employers. As a result, graduates are well equipped to gain fulfilling and well paid employment on its completion.

This programme draws on the school's unique strengths and specialisms in Environmental Management, Built Environment and Energy Technology. Graduates of this degree will be particularly employable in local government, where skills are required in contaminated land, tackling waste, reducing social exclusion, enhancing the countryside, wildlife and coast, promoting energy efficiency, or developing new transport policies.

You will also be sought after by private and public organisations, as there is an increasing need for implementing environmental management systems (ISO14001 and EMAS) and environmental assessments.

In order to meet today's various environmental challenges, public and private institutions need trained professionals like our graduates, who understand the economic, environmental and social issues around sustainable development and can manage these complex projects.

“You will offer professional advice on how to make towns, cities and rural areas better places to live and work.”

# Fire Risk Engineering

BSc (Hons)

Fire Engineering is a comparatively new discipline, and this programme is the only one with a specific focus on fire safety design and regulation.

The programme is recognised by the Institution of Fire Engineers and the Society of Fire Protection Engineers. Graduates will have excellent job prospects in both public and private sectors.

## Why Caledonian?

The programme, originally developed in close partnership with Strathclyde Fire Brigade, is unique in its focus and one of a limited number of fire engineering programmes in the UK. Risk management, forecasting, problem-solving and communication are all essential components of your learning, as is the ability to specify performance levels of buildings when you assess them.

It is designed to meet the needs of consultants, building control practitioners and fire service officers in a rapidly evolving design, engineering and regulatory environment.

The programme team has strong links with consultants and regulators who support the programme through guest lectures, case study material and site visits. The programme also benefits from the input of visiting lecturers from various organisations including Strathclyde Fire and Rescue.



**UCAS code:** H121

**Entry requirements:** Higher Grade and A Level: 285 UCAS points (preferably a combination of As and Bs at Scottish Higher Grade), ILC: 285 UCAS points from Higher grades C1 or above.

**Essential subjects:** English and Mathematics (Int 2 minimum).

**Recommended subjects:** English (H) and Mathematics (H), at least grade B for both.

**FE college students** Contact us for a copy of our College Student Supplement.

**Work placement:** Students have the opportunity to undertake an accredited work placement at the end of Year 2, returning to university study for Trimester 2 of Year 3.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Professional accreditation:** The programme is fully accredited by the Institution of Fire Engineers.

**Number of places:** 10.

**Mode of study:** Full-time and part-time (part-time students must be in full-time related employment).

**Contact:** Douglas Hillhouse

E: D.Hillhouse@gcal.ac.uk

T: +44 (0)141 331 3638

[www.gcu.ac.uk/bne](http://www.gcu.ac.uk/bne)

**What you'll learn:** **Year 1:** Studies will develop a good foundation level understanding of building design, technology and performance. **Year 2:** You are introduced to the principles of fire safety analysis and the practice of fire safety design and regulation. You will also develop an understanding of computer aided modelling techniques and risk management. **Year 3:** There is an opportunity for students to undertake a work placement for six to eight months. You will extend your learning with studies such as fire dynamics, performance evaluation and fire safety data analysis. **Year 4:** An Honours dissertation will be combined with further study of topics such as smoke control systems design and evacuation systems design and fire risk assessment.

**Career opportunities:** Career prospects are excellent, driven by developments in fire safety legislation and the overall size of the construction industry, which employs almost one in ten of the UK working population. Graduates will find meaningful employment with the fire services, construction companies, consultancies, local authorities and building control organisations.



# Property Management and Valuation

BSc (Hons)

See page  
114 for how  
to apply.

**UCAS code:** N232

**Entry requirements:** Higher Grade and A Level: 285 UCAS points (preferably a combination of As and Bs at Higher Grade) ILC: 285 UCAS points from Higher grades C1 or above.

**Essential subjects:** English (S) and Mathematics (S).

**Recommended subjects:** Business Studies, English, and Geography at Higher or A Level. At least grade B in English (H) and Mathematics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Students have the opportunity to undertake accredited work placement for twelve months in Year 3, returning to university study for Year 4.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations, are included within the modules.

**Professional accreditation:** The programme is fully accredited by the Royal Institution of Chartered Surveyors (RICS).

**Exchanges:** Study tours and case study work are integral to the programme. Most recently, study tours of North America have focussed on distinctions in their real estate markets and challenges for regeneration. Students are able to partake in academic exchanges through the established link with Ryerson University, Toronto.

**Number of places:** 30.

**Mode of study:** Full-time and part-time (part-time students must be in full-time related employment).

**Contact:** Malawi Ngwira  
E: Malawi.Ngwira@gcal.ac.uk  
T: +44 (0) 141 331 3425  
[www.gcu.ac.uk/bne](http://www.gcu.ac.uk/bne)

**What you'll learn:** **Year 1:** Studies include Urban Studies, Economics, Legislation, Construction and Property Valuation. **Year 2:** Continuation of Core Skills Development with additional study including Property Management, Urban Planning, Construction and Property Contracts and Property Development. **Year 3:** A year long professional placement which may count towards professional qualification. **Year 4:** Honours dissertation. Further studies include Advanced Valuation, Corporate Property Management and Urban Regeneration.

**Career opportunities:** Career opportunities: In addition to preparation for Chartered Surveyor status, graduates can quickly find meaningful employment in related fields in the property arena or in the wider business environment. Graduates have gone on to work in multinational organisations, private practices, housing associations, local authorities, health care trusts, colleges and universities worldwide as well as a wide range of public sector organisations.

This programme will prepare you for a career as a professional handling the valuation, management and development of urban property across the commercial, industrial and residential sectors.

If you are interested in the management of property and buildings such as shopping centres and multi-occupied office parks, or the valuation of a full range of buildings, you can study on a degree programme that is fully accredited by the Royal Institution of Chartered Surveyors (RICS), aimed at giving you a career as a Chartered General Practice Surveyor.

### Why Caledonian?

The programme has been developed to ensure that teaching modules reflect and develop current best practice and cater for the needs of employers. As a result, graduates are fully equipped to gain rewarding and well paid employment on completion of the programme.

The programme is the only one of its type recruiting in the West of Scotland. Students enjoy a challenging blend of academic subjects and practical knowledge and skills aimed at achieving professional competency and transferability. You will study essential elements of Construction, Economics, Legal Studies and Valuation, giving you the ability to relate the property industry to other built environment fields and the wider business context. A variety of learning methods will be employed, such as project and group work, field study visits, and a range of professional guest speakers also support the programme.

“Work towards a professional career in the management and valuation of property and buildings such as shopping centres, multi-occupied office parks or residential developments.”

# Quantity Surveying

BSc (Hons)

As a Quantity Surveyor you'll be a key player in the construction team, giving financial and contractual advice to a wide variety of clients. As an essential link between designer and contractor, providing advice on construction costs and contractual arrangements, you will take responsibility for the monitoring of costs from the inception of a construction project through to completion.

This programme is accredited by the Royal Institution of Chartered Surveyors (RICS) and the Chartered Institute of Building (CIOB). This accreditation is essential for those wishing to continue to Chartered Quantity Surveyor status.

### Why Caledonian?

The Quantity Surveying programme is long-established and has, over the years, developed very strong links throughout the construction industry. Graduates are in high demand by both local and national employers.

Due to its first class reputation, many overseas students choose to study on this programme. This introduces a global perspective to the programme,

allowing students to benefit from the sharing of knowledge from different cultures and economies.

Full-time Quantity Surveying students at Year 3 participate in an annual 'Interact' design project, working with architecture students from The Glasgow School of Art (Mackintosh School of Architecture), and Engineering students from the University of Glasgow and the University of the West of Scotland. This unique competition provides an opportunity for students to experience working as part of a design team to develop a network of contemporaries and participate competitively in solving a specific design problem.

**UCAS code:** K240

**Entry requirements:** Higher Grade and A Level: 295 UCAS points (preferably a combination of As and Bs at Scottish Higher Grade), ILC: 295 UCAS points from Higher grades C1 or above.

**Essential subjects:** English (S), Mathematics (S).

**Recommended subjects:** At least grade B in English (H) and Mathematics (H).

**FE college students** Contact us for a copy of our College Student Supplement.

**Work placement:** Students have the opportunity to undertake an accredited work placement at the end of Year 2, returning to university study for Trimester 2 of Year 3.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Professional accreditation:** The programme has been fully accredited by The Royal Institution of Chartered Surveyors (RICS), The Chartered Institute of Building (CIOB), The Institution of Civil Engineering (ICE), and the Board of Quantity Surveyors Malaysia (BQSM).

**Number of places:** 30.

**Mode of study:** Full-time and part-time. Part-time students must be in full-time related employment.

**Contact:** Halbert Mills  
E: H.Mills2@gcal.ac.uk  
T: +44 (0)141 331 3296  
[www.gcu.ac.uk/bne](http://www.gcu.ac.uk/bne)

**What you'll learn:** **Year 1:** Fundamental principles of basic technology and design, including materials and construction techniques. You will also be introduced to the legal and commercial sides of Quantity Surveying. **Year 2:** Focus on the core Quantity Surveying skills specific to the job including contractual and commercial knowledge and key quantification and technology skills. **Year 3:** Students gain practical experience in industry and consolidate your core skills and knowledge. **Year 4:** Students can develop their skills through personal choice of path through the final year of the programme. Options include: Corporate Strategy, Facilities Management, Project Management, Dispute Resolution and Negotiation.

**Career opportunities:** Graduates of the programme have been recruited by such leading companies as First Engineering, Tarmac, Miller Group, Balfour Beatty, Turner & Townsend and Doig + Smith. They continue to find meaningful employment with major players in the construction and property sectors as Quantity Surveyors or can choose to follow many other career paths with a respected qualification. Graduates can expect similar rewards to those of the law and accountancy professions for their efforts.





**Name:** Jennifer Bullingham  
**Programme:** BSc (Hons)  
 Environmental Civil Engineering  
**Year of Graduation:** 2007  
**Current Role:** Graduate Engineer,  
 Jacobs Engineering UK Ltd

#### How has your career progressed since graduation?

Since graduating in 2007 my career has progressed considerably. Having gained a first class Honours degree at GCU, I went onto study an MSc at another university. I did this on a part time basis whilst working full time at Jacobs Engineering. During this time I have gained vital experience in all aspects of bridge design through my work at Jacobs working on key infrastructure projects throughout the UK and Ireland.

#### Why did you choose your programme at GCU?

I chose the course as there were key elements to its structure that appealed to me. Firstly there was a practical element to the course which enabled me to develop detailed knowledge and confidence which is required in the Civil Engineering Industry. Secondly there was an option to work in industry for a semester which I saw as being key to finding a route to employment.

#### What did you enjoy most about life at the University?

I enjoyed the social aspects of university and also gaining a valuable degree.

#### What did you enjoy most about your programme?

In the third year of the course you have the opportunity to work in industry for 6-8 months. I chose to relocate to Manchester and soon realised that the practical studies I had been taught at GCU could be put to good use. This placement was instrumental in my career allowing me to see what 'real' engineers do and how they come over challenges in the work place, gaining valuable experience in the profession. Once the placement was complete I transferred to the company's Glasgow office on a part time basis for 18 months until I completed my degree and remain there today.

#### What was your best memory from your time at GCU?

It has to be my graduation day.

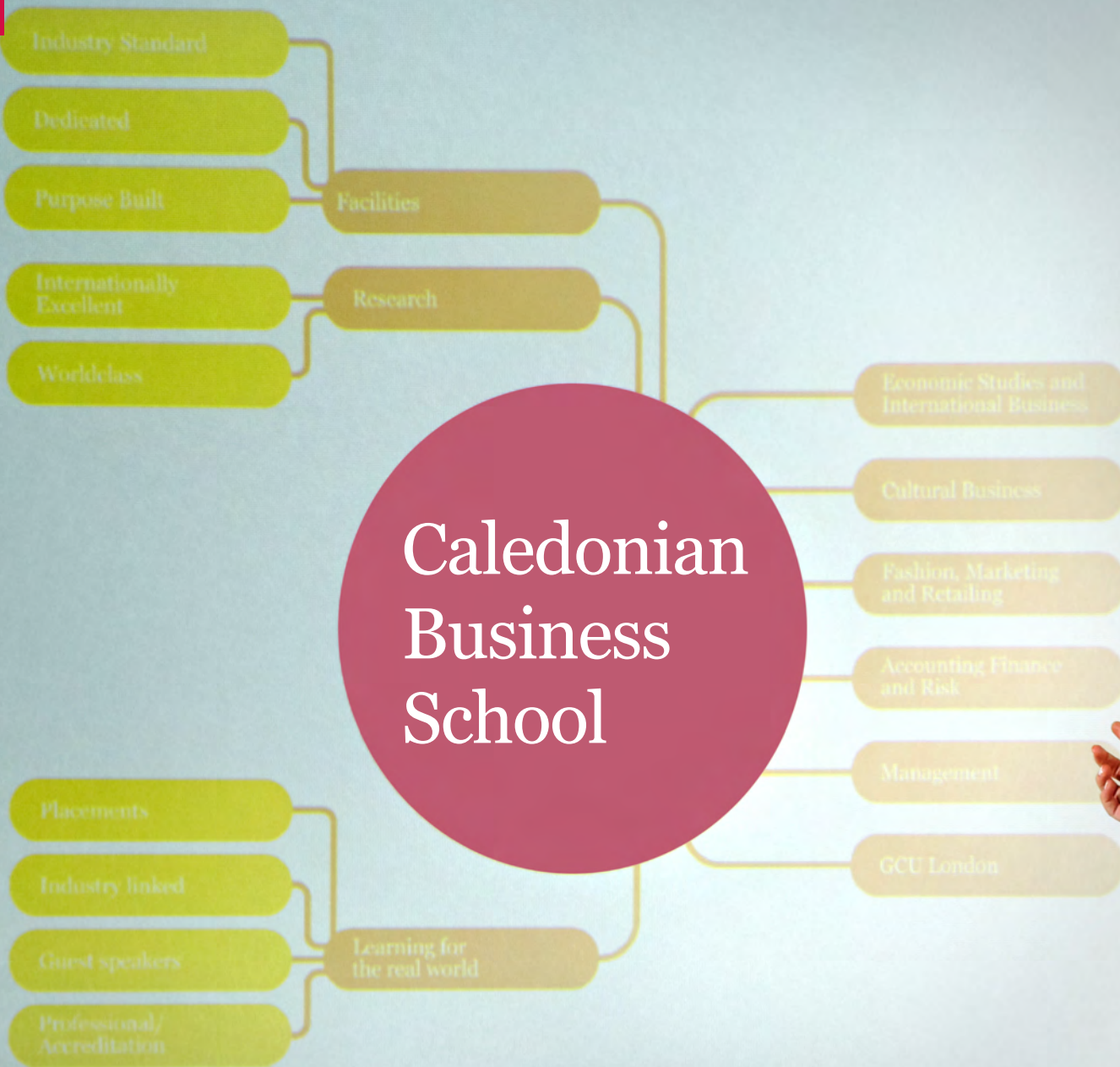
#### What do you think about Glasgow as a place to study?

Glasgow has everything. I moved to Glasgow for my degree at GCU and still live and work in the city.

#### What single word would you use to sum up your GCU experience?

Enlightening.





# Caledonian Business School

Facilities

Research

Learning for the real world

Economic Studies and International Business

Cultural Business

Fashion, Marketing and Retailing

Accounting Finance and Risk

Management

GCU London





We pride ourselves on our strong links with industry across Scotland, the UK and beyond. These links support the programmes we offer and play an important part in creating professionally competent, more innovative and globally competitive graduates. Join us and discover a 'Genuinely International and Proudly Scottish' business school.'

[Professor Zeljko Sevic, Dean of Caledonian Business School](#)

Caledonian Business School (CBS) is the largest business school in Scotland with each of its degree programmes having a fundamental business and management background specifically designed to provide you with a strong mix of knowledge, professional skills and the tools to succeed in life.

#### **Industry and professional partnerships**

The school has strong links with industry partners, allowing our students access to site visits, live projects and case studies.

#### **Exchange opportunities**

Many of our degrees offer study exchange opportunities with European universities in Denmark, Finland, Sweden, France and Italy (with courses delivered in English). It is also possible to undertake an exchange with partner universities in the USA or Canada.

#### **Professional accreditation**

Our department of Accounting, Finance and Risk is now a designated Centre of Excellence. In addition, the BA Journalism is the only degree in Scotland to be professionally accredited by both the National Council Training for Journalist (NCTJ) and the Broadcast Journalism Training Council (BJTC), providing industry standard training for our current and future Journalists. Many CBS programmes enable students to gain partial exemptions from the relevant professional body examinations. The portfolio of professional bodies that accredit our degree programmes include the Chartered Association of Certified Accountants (ACCA), Chartered Institute of Bankers in Scotland (CIOBS) and the Chartered Institute of Securities and Investment (CISI).

#### **Professional placement**

With a strong vocational focus and an emphasis on combining creativity and innovation with good business practice, many of our degrees also feature industrial placements allowing you to gain critical work experience.

## Student profile

Martin Malone



**Name:** Martin Malone  
**Programme:** BA (Hons) Entertainment and Events Management  
**Year of Study:** 3rd

### Why did you choose your programme at GCU?

I chose Caledonian because it was a modern university with a great location in central Glasgow - perfect for the full student experience. Events Management has always been an interest of mine and the industry is still booming. I feel vocational subjects are more focused for life after university and increase your potential job prospects in the industry you choose.

### What do you like most about the University?

I am enjoying the chance to socialise and get involved with university activities. Although the course has many challenges there is still time for things like playing sports and getting to know new people. The University offers great support for students and has won many awards for international student support. The lecturers also have great industry experience and, if there you experience any problems, are always willing to help.

### What are you enjoying most about your programme?

There is a multitude of events experience to be had in Glasgow. The University has some of the best links with events companies and enjoys regular contact with Culture and Sport Glasgow. Placements are available during term time and over the summer and we are all encouraged to get as much experience as possible - the lecturers help a lot with this.

### Do you belong to any university clubs or societies?

I play rugby and use the University gym. However, whatever your background and interests are there will be something for you.

### What is your best experience so far?

There are two. In terms of my programme, the best experience was getting a summer placement with Culture and Sport Glasgow which really opened the doors into events allowing me to work on events such as Glasgow Mela, Piping Live and World Pipe Band Championships. It not only gave me industry experience but also provided great contacts for the future, which I am already using to work at the Aviva International Match in Glasgow. The other was the rugby team being promoted and winning the BUCS Scottish Mens Conference Cup in the same season.



**UCAS code:** N400

**Entry requirements:** Higher: BBBC (from 1 sitting) or BBBB (over 2 sittings), A-Level: BCC, ILC: BBBC

**Essential subjects:** English (H and ILC), Mathematics (H and ILC), English or Mathematics (A Level).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants may occasionally be called for interview prior to being offered a place.

**Assessment:** A combination of exams and coursework.

**Professional accreditations:** This programme is accredited by the main UK professional accountancy bodies including ICAS, ICAEW, ACCA, CIMA and CIPFA.

**Number of places:** 100.

**Mode of study:** Full-time.

**Contact:** Siobhan White  
E: [baac@gcal.ac.uk](mailto:baac@gcal.ac.uk)  
T: +44 (0)141 331 3365  
[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** **Year 1:** Introduction to Financial Accounting, Introduction to Management Accounting, Principles of Business Finance, Economics Markets & Enterprises, Accounting Organisations & Society. **Year 2:** Financial Accounting Regulation, Ethics and Accountability, Accounting Information Systems, Planning Control and Performance Evaluation, Business Law and Management. **Year 3:** Financial Accounting, Accounting for Decision Making, Corporate Finance, Audit, Taxation plus one option. **Year 4:** Dissertation plus subjects chosen from a range of advanced Accounting, Finance, Financial Services and Risk topics, plus options from a wider range of subjects, including Marketing and Human Resource Management.

**Career opportunities:** On graduation, you will have the opportunity to train as a professional accountant while completing professional exams such as ACCA, CIMA and CIPFA also taught at Glasgow Caledonian. The programme is recognised by all of the main professional accounting bodies through accreditation status. Once qualified, you may work in a specialist area such as auditing, taxation, as a liquidator or in a broader role as a management consultant. The BA Accountancy also provides you with attributes for careers in many other areas.

For any organisation to function effectively and prosper, it needs constant and reliable financial advice. As an accountant, you can provide input and guidance in a financial management capacity for any organisation.

We have an excellent reputation for producing high quality Accountancy graduates. We will give you the skills to manage, plan and control financial systems and you will also enjoy maximum exemptions from the exams of the professional accountancy bodies.

#### Why Caledonian?

Caledonian Business School has one of the largest communities of professionally qualified academic accountants within the UK, as well as a wealth of professional connections and expertise in both the public and private sectors.

We invite a limited number of students to join our Accountancy programme, thus ensuring that they can develop a strong working relationship with our professionally accredited staff and a bond with each other that will carry through their career as accountants. The first three years of the programme will give you a solid grounding in all aspects of accountancy, with a high emphasis on practical content. Linked with essential theory in subjects such

as economics, law and management, this will give you a broader appreciation of the business and corporate world.

The subjects you choose in the fourth year will very much reflect the type of accountancy career you wish to pursue, whether as a financial accountant, management accountant or in another role altogether. Evidence of the respect our degrees is held in by the accounting profession is seen not only in the fact that we teach the professional bodies' qualifications, but also in the number of our graduates employed by major accountancy firms and 'Blue Chip' employers.

“Caledonian Business School has one of the largest communities of professionally qualified academic accountants within the UK.”

# Business and Management

BA/BA (Hons)

This programme offers you the opportunity to build your own Business and Management degree, tailored to suit your own career aspirations, by allowing you a choice of option themed routes. The breadth of key areas available is wide, from advertising and human resource management to quality and marketing. Working within a framework, you can design your own degree based on your interests.

## Why Caledonian?

You can choose from the suite of modules available in the Caledonian Business School, the largest business school in Scotland.

Every year you will be involved in selecting the modules you will study. In your first year you will share modules with students from other business degrees. From Year 2, as well as optional modules, you will build on the central areas of the programme; economics, finance, information technology, law and management. Throughout Years 2 and 3 you will have the opportunity to study abroad as an exchange student with partner

institutions in Europe. You are then asked to contribute your ideas as to the type of degree you want and, in particular, which specialisms you wish to study.

The final two years of study then allow you to focus on the main career areas you are interested in, through to an Honours degree.

An intake of students from further education colleges will enter the programme at Year 3, taking advantage of the flexible structure of this degree to add to an HND in a business area and complete either a degree or Honours degree.

**UCAS code:** NN12

**Entry requirements:** Higher: BBCC, A-Level: CCC, ILC: BBCC

**Essential subjects:** English (H).

**Recommended subjects:** Mathematics (S).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A combination of coursework and exams.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Exchanges:** Year 2 or 3, Trimester 2. See p124 for more details.

**Number of places:** 60.

**Mode of study:** Full-time & part-time (evening only).

**Contact:** Dr John Cooper

E: babm@gcal.ac.uk

T: +44 (0)141 331 3311

www.gcu.ac.uk/cbs

**What you'll learn:** Year 1: Business Law, Marketing, Managerial Finance, Business Environment, Economics, Data Analysis.

Year 2: Perspectives on People, Quantitative Business, Management, Business Enterprise, Options Theme or European Exchange.

Year 3: Different routes are available, building on your career ambitions. You will study Strategic Management and Research as well as four modules in your selected area or three modules including European Exchange. Year 4: An Honours project will be combined, again relating to your career pathway, with four subjects in your chosen Business field.

**Career opportunities:** As you can imagine, this degree has a very broad scope of different career paths, linked to the particular field of study our graduates have chosen. A few examples are careers in administration, advertising, consumer psychology, consumer studies, economics, entrepreneurial studies, financial services, hospitality management, human resource management, information technology, languages, law, leisure management, marketing, quality, retail management, risk management and travel and tourism.

**Note:** This degree is also available on a Part-time (evening-only) basis.





See page  
118 for funding  
information.

**UCAS code:** N100

**Entry requirements:** Higher: BBCC, A-Level: CCC, ILC: BBCC

**Essential subjects:** English (H).

**Recommended subjects:** Mathematics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** 48 week full-time industrial placement.

**Assessment:** A combination of coursework and exams.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Number of places:** 80.

**Mode of study:** Full-time.

**Contact:** Dr John Cooper

E: babs@gcal.ac.uk

T: +44 (0) 141 331 3311

www.gcu.ac.uk/cbs

**What you'll learn:** Year 1: Business Law, Marketing, Managerial Finance, Business Environment, Economics, Data Analysis. Year 2: Perspectives on People, Quantitative Business, Management, Options Theme or European Exchange. Year 3: 48 week full-time industrial placement. Year 4: Honours dissertation, International Business Strategy, Industry Studies plus students continue with two options.

**Career opportunities:** The programme is flexible and varied in nature and, therefore, the career opportunities it grants graduates are equally varied. The themed routes allow you to help design your path as you progress through the different years of the programme. Graduates of the programme have gone on to rewarding careers in areas such as management consultancy, accountancy, retail management, marketing analysis and promotion, personnel management and public relations.

**Note:** The first year of this degree gives you a broad introduction to Business and Management which provides a strong foundation for your subsequent studies.

The BA (Hons) Business Studies programme offers you the chance to gain a broad understanding of the issues and operations of the world of business and, in addition, to gain a deeper understanding of particular business disciplines through your own choice of learning.

A key feature of this programme is the full year's paid industrial placement in Year 3, greatly enhancing your career prospects. Blue chip companies such as IBM, Marks & Spencer, Hewlett-Packard and British Airways are just some of the organisations who have supported the scheme.

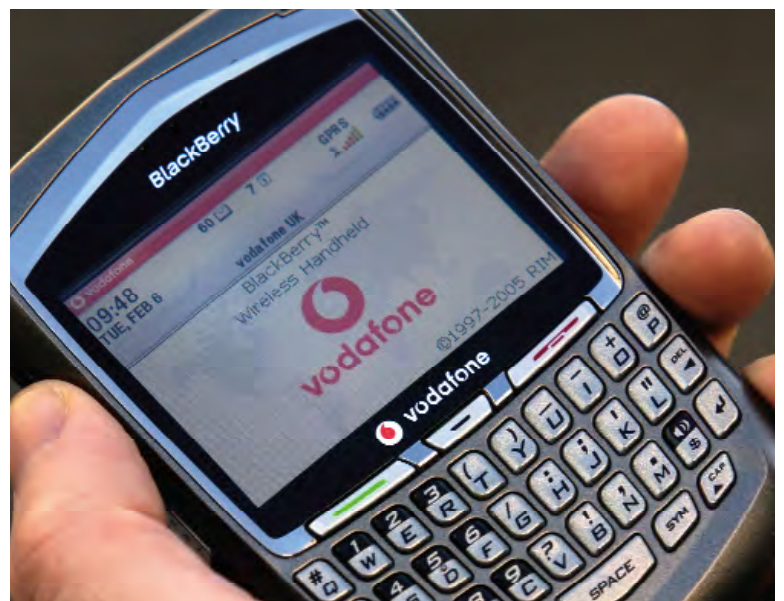
#### Why Caledonian?

The longest running degree programme at Glasgow Caledonian University, the BA (Hons) Business Studies continues to gain tremendous respect from industry, providing graduates with a broad base of business related knowledge from which you can choose a specialised career path.

The combination of a full year's placement and study options will help direct your learning to a specific area of work. Graduates can follow specialisms including marketing,

finance or human resource management. The strength of the programme lies with the synergy it creates between knowledge and experience. By combining a broad business base with the ability to pursue areas of interest and gain a year's experience in a chosen field, the end result is a highly employable graduate.

One of the main advantages of this programme is the excellent placement opportunity it affords students. You can work with major companies across a variety of industries putting your knowledge and skills to work and making valuable contacts for the future. Over 48 weeks of full-time employment, you will see the workplace from an 'informed' perspective, witnessing the theories and strategies you have learned on the programme.



# Entertainment and Events Management

BA (Hons)

The entertainment and events industries have seen rapid expansion over the last decade. These industries now require high calibre managers who can cope with the many demands placed on staff and facilities.

In this specialist degree programme, you will learn to synchronise all of the elements under the control of a manager, including staff and financial resources, to allow your business to present a service which exceeds its customers' expectations.

### Why Caledonian?

The majority of modules have been designed with the entertainment and events industries in mind and the degree meets the requirements of the Quality Assurance Agency for Higher Education benchmark for Leisure Management.

You will understand and experience the many forms that entertainment and events can take and acquire the management skills needed in these industries at both operational and strategic levels.

Lecturers on the programme enjoy excellent relationships with the entertainment and events industries locally, nationally, and internationally, giving you the opportunity to undertake project work in organisations as part of your assessment. You will also be given the opportunity to deliver real-life entertainment and events opportunities as part of a management team during your degree. As well as becoming an effective manager, you will be able to work towards a range of vocational awards pertinent to the entertainment and events industries. This degree also offers regular fieldwork experiences, project work and industrial experience.

**UCAS code:** NN82

**Entry requirements:** Higher: BBCC, A-Level: CCD, ILC: BBCC

**Essential subjects:** English (H) at B.

**Recommended subjects:** Mathematics (S) at grade 2 (minimum).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** An industrial work experience component runs throughout the degree. Supported through a Personal Development Planning process, you will need to complete a minimum of 300 working hours, in an appropriate context, before entry to Year 3.

**Assessment:** A combination of presentations, essays, reports and case study analysis within, where appropriate, live practical situations. A dissertation project is undertaken in Year 4.

**Language option:** Students can opt to study language modules during Trimester 2 at levels two to four. Please see p125 for more details.

**Exchanges:** Existing relationships in Canada and the USA are being developed to enhance the portfolio of exchange opportunities. These are made available to Year 3 students.

**Number of places:** 40.

**Mode of study:** Full-time.

**Contact:** Dr Matt Frew  
E: baeventsmgt@gcal.ac.uk  
T: +44 (0)141 331 8468  
[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** **Year 1:** Marketing Fundamentals; Managerial Finance; Conceptualising Cultural Environments; Economies, Markets and Enterprise; Introduction to PR; Information and Planning in the Cultural Sector. **Year 2:** Perspectives in People at Work; Managing Risk in Cultural Contexts; Youth Entertainment and the City; Practical Events Management; Management and Organisations and an option choice. **Year 3:** Strategic Management; Events and Regeneration; Comparative Policy in the Cultural Sectors; Capable Professional Practice; Research Methods in the Cultural Sector and an option choice. **Year 4:** Honours dissertation, combined with subjects including Globalisation, Culture and Lifestyle; Mega-Events, Spectacle and Identity; a PR Campaign and an option choice.

**Career opportunities:** There are opportunities for graduates to secure jobs across the public, private and voluntary sectors in aspects of music, fashion, arts, dance, drama, sport and recreation. Recent graduates have secured jobs in events organisations, nightclubs, theme parks and the music industry

**Note:** Students can bid into the Leisure Development Fund in order to finance supplementary and technical qualifications as well as other learning opportunities (e.g. industry conferences). This will support students in obtaining and developing a portfolio of vocational knowledge and skills deemed essential to employability.





**UCAS code:** JN41

**Entry requirements:** Higher: BBCC, A-Level: CCD, ILC: BBCC

**Essential subjects:** English (H), Art & Design (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Most students undertake a period of relevant work experience on a part-time basis in Year 2.

**Assessment:** A combination of coursework & exams.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Number of places:** 40.

**Mode of study:** Full-time.

**Contact:** Diane Cook  
E: bafashionbus@gcal.ac.uk  
T: +44 (0) 141 331 8754  
www.gcu.ac.uk/cbs

**What you'll learn:** **Year 1:** The Business Environment, Marketing Fundamentals, Introduction to Fashion and Design, Personal Development & Self Presentation, Pattern Cutting and Garment Development, Economics, Markets and Enterprise. **Year 2:** Management and Organisations, Perspectives on People at Work, Production Processes and Design, Consumer Buying Behaviour, Supervised Work Placement or Work Based Learning, Managerial Finance. **Year 3:** Strategic Retail Management, Strategic Management, Fashion Design and Cultural Studies, Business Research Methods or option, Fashion Collection and Promotion, fashion related option. **Year 4:** Range Design for Industry, Dissertation – double credit, fashion-related options, Changing Perspectives on Marketing Management (Fashion).

**Career opportunities:** Graduates have progressed to careers as designers, stylists, journalists, fashion editors, buyers, merchandisers, visual merchandisers, pattern technologists, garment technologists, production managers, retail managers, wardrobe assistants and fashion lecturers. Others have set up their own fashion businesses in design and retailing based on the skills they acquired from the programme.

This stimulating programme will enable you to develop intellectual, conceptual and technical skills in fashion design, marketing and business. With a focus on creativity, students are encouraged to be experimental in their approach to visual and theoretical research.

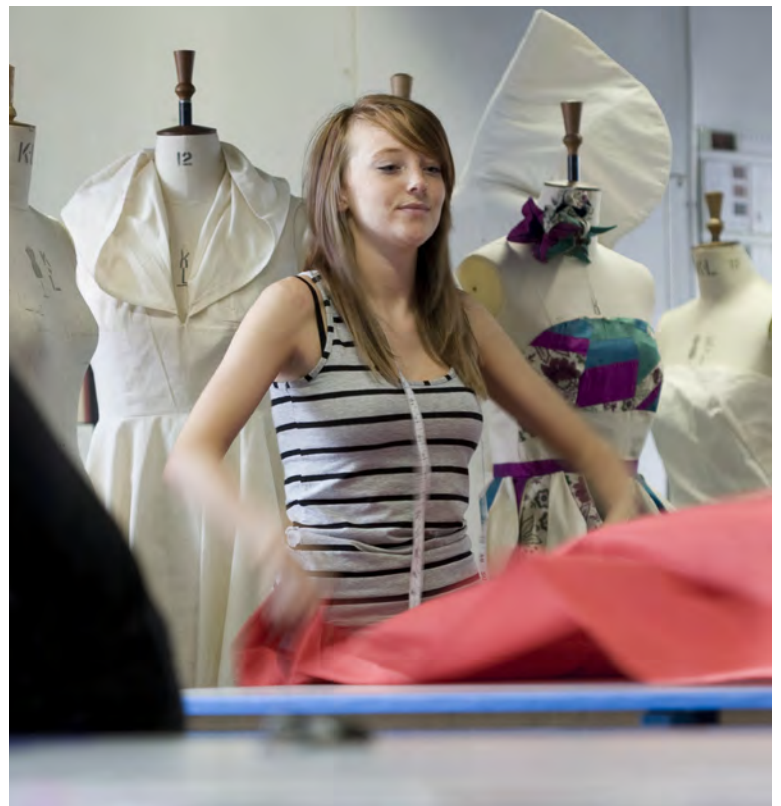
#### Why Caledonian?

Quite unlike any other programme, you will gain knowledge in the foundations of clothing design and manufacture, underpinned by essential business theories related to the fashion industry. Throughout this degree you will participate in practical industry events such as fashion competitions and shows; visiting exhibitions and trade fairs.

Through numerous fashion projects, you will develop your design skills in studio-based practice, while simultaneously developing your management, communication and

analytical skills to provide you with an all-round commercial approach. You will be encouraged to think analytically and work effectively, both individually and as part of a team.

Most students undertake a period of work experience on a part-time basis over one trimester in the second year. This work experience can be in a variety of sectors including design and the retail fashion sector.



# Fashion Marketing

BA/BA (Hons)

Fashion is a globally dynamic sector which influences a growing number of products and services. Fashion Marketing is involved in all aspects of the supply chain from product concept to carrier bag and therefore offers a variety of specialisms from trend forecasting to styling and media planning.

## Why Caledonian?

This is the first and only programme of its kind in Scotland. This commercially relevant course puts our graduates at the cutting-edge of the fashion marketing industry. The programme begins by providing a strong theoretical business and generic marketing base which is an essential starting point. This solid foundation is then complimented by the development of your creative and practical skills which are vital to fashion marketing professionals. This unique blend of theory and practice is what makes our programme innovative and gives you the competitive advantage over other graduates when joining the industry.

The programme is enriched by the excellent industry links that the staff have as a result of their research and consultancy. This means that visiting lecturers from design houses, major retailers, fashion magazines, both national and international, come and share the benefit of their up-to-date experience with students. In addition, external companies set 'live' briefs about real issues faced by fashion industry.

You can further enhance your experience and employability through the BA (Hons) Fashion Marketing as it offers international exchange and work placement opportunities.



**UCAS code:** NW52

**Entry requirements:** Higher: BBBC, A-Level: CCC, ILC: BBBC

**Essential subjects:** English (H).

**Recommended subjects:** Mathematics (S) or numerical subject (S).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Students may undertake a 12 week work experience module option in Year 2.

**Assessment:** A combination of coursework and exams.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Number of places:** 60.

**Mode of study:** Full-time.

**Contact:** Carol Barry  
E: bafashmkt@gcal.ac.uk  
T: +44 (0)141 331 8755  
[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** **Year 1:** Marketing, Managerial Finance, Business Environment, Economics, Personal Development and an introductory module which sets Fashion Marketing Theory in context. **Year 2:** Perspectives on People, Consumer Behaviour, Management, optional fashion marketing modules and a specialist module which examines how to develop new Fashion Markets and Products. **Year 3:** Strategic Management and Retail Marketing with specialist Marketing modules, including the specialist module Fashion Brand Communications. **Year 4:** The Honours dissertation is of great importance in Year 4 and accounts for two modules. There are two options: Marketing module and the specialist module International Fashion Marketing Management.

**Career opportunities:** As fashion permeates just about every aspect of the consumer's buying decisions, the opportunities for employment occupy a wide spectrum. There are potential jobs as fashion marketing executives, visual merchandisers, fashion buyers or in fashion journalism, brand management, fashion marketing research, styling, events and public relations.

**Note:** The first year of this degree gives you a broad introduction to Business and Management which provides a strong foundation for your studies in Fashion Marketing.



See page  
116 for entry  
requirements.

**UCAS code:** N390

**Entry requirements:** Higher: BBCC, A-Level: CC, ILC: BBCC

**Essential subjects:** English (H), Mathematics (S).

**Recommended subjects:** Business-related subject (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A combination of coursework and exams.

**Number of places:** 40.

**Professional accreditations:** The BA Finance, Investment and Risk offers graduates exemptions from a range of professional organisations. These include the Chartered Insurance Institute, the Chartered Institute of Securities and Investment, the Chartered Institute of Bankers in Scotland and the Institute of Financial Services.

**Mode of study:** Full-time.

**Contact:** Shahid Nawaz  
E: bafinrisk@gcal.ac.uk  
T: +44 (0) 141 331 3145  
www.gcu.ac.uk/cbs

**What you'll learn:** **Year 1:** Introduction to the Financial Services sector – the Financial Environment, Markets, Economics, Managerial Finance and Business Law. **Year 2:** You will begin to develop specialist knowledge in areas such as Banking, Business Finance, Regulation, Risk and Personal Finance. **Year 3:** Here you will broaden your knowledge in areas such as Corporate Finance and Investment, European Financial Services and Institutions, Pensions and Retention and Transfer of Risk in Financial Services. Options will also enable you to specialise in chosen areas. **Year 4:** An Honours dissertation relating to your career pathway will be combined with more specialist subjects like International Financial Services, UK Pension Practice, Investment Management and Managing Risk in Financial Institutions.

**Career opportunities:** We have a strong history of graduate employment. Our graduates have gone on to work in areas such as financial advice and wealth management, investment analysis and management, financial risk analysis and operations, regulatory supervision and compliance, financial market analysis and pension fund management, as well as taking up graduate management places. They have gained employment with organisations such as Morgan Stanley, Standard Life, Abbey, Clydesdale Bank, Lloyds Banking Group, Ignis Asset Management, Scottish Widows and the Financial Services Authority.

An award-winning degree programme, recognised by Scottish Financial Enterprise for its innovation, the BA (Hons) Finance, Investment and Risk offers graduates excellent opportunities to work in a broad range of roles and sectors within the financial services industry.

Even in the current economic climate, financial services continues to be a mainstay of the Scottish and UK economies.

#### Why Caledonian?

The programme is located in a department which has been designed as a Centre of Excellence by the UK's Chartered Institute for Securities and Investment. It focuses on the key areas of personal finance, corporate finance and investment, risk, banking and international finance, as well as including general business subjects. The availability of options enables you to specialise in one or more areas, depending upon your interests. A dedicated careers tutor will help you find related work experience during your studies or during vacation time and eventual employment following graduation.

The degree has built a strong reputation amongst employers by providing graduates who understand the mechanics of a wide range of disciplines in the financial services sector and can therefore quickly add value to their business. It also offers exemptions from various professional examinations which is a real advantage when seeking employment. As the then Head of Scottish Enterprise's Financial Services Team commented: '...the degree course provides students with the right skills for challenging and rewarding careers in the financial services industry and demonstrates best practice in education and industry links.'

“Scotland’s financial services industry employs a greater proportion of people holding a higher education qualification than across industry in Scotland as a whole.”

# International Business

BA/BA (Hons)

The increasing globalisation of economic and business activity means that there is a growing need for business students to understand the forces that are driving such activity and the business and managerial implications thereof. The International Business programme will give you the opportunity to understand these key issues and develop the skills necessary to pursue a successful career in the global marketplace.

## Why Caledonian?

The programme is a combination of key business and management modules enabling you to develop your analytical skills and broaden your understanding of current global, international and European issues. Combined with your choice of optional modules, (which includes European Business, Human Resource Management, Marketing, Modern Languages, International Finance, Risk Management and Entrepreneurship) you will develop the general business skills and acumen needed in any international business career or chosen specialist area.

Students on the International Business degree can undertake an overseas exchange for one trimester of Year 3 or for all of Year 3. Exposure to study in another country helps to develop your understanding of the international context, culture and language aspects of business. In addition it will have a positive impact on the employability of graduates of the International Business degree by further developing your personal transferable skills, which employers increasingly demand. These include: self-reliance, resilience, adaptability, tolerance and cultural literacy.



**UCAS code:** N120

**Entry requirements:** Higher: BBCC, A-Level: CCC, ILC: BBCC

**Essential subjects:** English (H).

**Recommended subject:** Mathematics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A combination of coursework and exams.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Exchanges:** Students will have the opportunity to go on an exchange to one of our partner universities in Year 3, either for the year or for one trimester. Please see p124 for more details.

**Number of places:** 40.

**Mode of study:** Full-time.

**Contact:** Dr John Cooper

E: baib@gcal.ac.uk

T: +44 (0)141 331 3311

[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** **Year 1:** Economics, Marketing, Managerial Finance, Business Environment, The Global Business Environment, Modern Languages option. **Year 2:** Management Challenge of International Business, Perspectives on People, Management & Organisations, Business Law Option Modules including Modern Languages. **Year 3:** International Market Entry & Development, Strategic Management, International Trade & Finance and Option Modules or International Exchange. **Year 4:** International Business Strategy, International Business Project, Option Modules from your chosen specialist field.

**Career opportunities:** As you can imagine, career pathways on graduation are both wide and varied. The increasingly global nature of business means employers are calling for graduates with an international perspective. Graduates of the International Business degree can look forward to careers in management, consultancy, international trade, marketing, human resource management, international marketing and information technology.

**Note:** The first year of this degree gives you a broad introduction to Business and Management which provides a strong foundation for your studies in International Business.



**UCAS code:** P500

**Entry requirements:** Higher: ABBB, A-Level: BCC, ILC: ABBB

**Essential subjects:** English (H) or Media (H).

**Recommended subjects:** Media Studies (H), Mathematics (S).

**Additional requirements for entry:** Successful applicants will be interviewed and tested (in current affairs and use of English) before being offered a place. We will also ask you to bring a piece of your own journalistic writing with you.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Minimum of four weeks placement by the end of Year 3.

**Assessment:** A combination of coursework and exams.

**Professional accreditations:** This programme is accredited by the National Council for the Training of Journalists (NCTJ) and the Broadcast Journalism Training Council (BJTC).

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Number of places:** 20.

**Mode of study:** Full-time

**Contact:** Dr Catriona Miller

E: bajo@gcal.ac.uk

T: +44 (0)141 331 8097

[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** **Year 1:** News Writing, Shorthand Theory & 80wpm, Journalism Production, UK Governance. **Year 2:** Reporting & Newsgathering, Shorthand 100wpm, Feature Writing, Media Policy, Media Analysis. **Year 3:** Newsdays, Advanced Reporting, Communications Law & Regulation, Research Methods, plus two options. **Year 4:** Dissertation, Portfolio, Media Ethics, Editorial Management, plus one option.

**Career opportunities:** A likely first job for you as a graduate might be as a reporter for a Scottish weekly newspaper or radio station; or as a writer or production sub-editor on a magazine. In 2006 and 2007, more than 60% of our graduates were in real journalism jobs like these within three months of graduation.

**Note:** A selection of other subjects drawn mainly from the Business portfolio will also be taught in Years 1 and 2.

Competition for the limited places on this programme is intense, but if you are: certain you want to be a journalist and can say why, based on some experience in or outside school; an avid consumer of the news in print, on radio or TV; and keen to use your research and writing skills to find out about and report on people's lives, then this is the programme for you.

#### Why Caledonian?

The BA Journalism degree will give you the ideal preparation for a career in the press or broadcasting; a full third of the programme is devoted to practical journalism skills training. You will also be taught the academic knowledge which journalists need (Government and Law, for example), as well as useful business subjects such as Marketing and Economics.

Uniquely in Scotland, the BA (Hons) Journalism programme is accredited by the National Council for the Training of Journalists — the most respected benchmark used by editors when looking for new reporters. There is also compulsory teaching from Year 1 onwards of broadcast journalism in fully digital radio and television studios, as well as print production.

The staff are highly experienced journalists and editors, while senior journalists from organisations like the BBC, STV, Daily Record, The Herald and The Scotsman regularly come in as guest lectures and tutors, advising and mentoring. We also have a unique agreement with the Herald and Times, Glasgow's biggest newspaper company, which involves paid work experience, as well as working journalists talking classes at the university.

Before the end of your third year, you will complete a work-experience placement at a Scottish newspaper, magazine, radio or TV station newsroom, of not less than four weeks' duration in total, during which you will be expected to do some of the normal journalistic tasks of a full-time journalist.



“The only undergraduate journalism degree in Scotland which is industry-accredited and where broadcasting is core.”

# Management, Technology and Enterprise (Year 3 direct entry only)

BA/BA (Hons)

BA/BA (Hons) Management, Technology and Enterprise is an up-to-date, creative and exciting programme which meets the demands of the modern workplace. This third year direct entry programme blends the three crucial business themes of management, technology and enterprise providing students with a broad and integrated knowledge and understanding across the three fields.

## Why Caledonian?

Caledonian Business School enjoys close links with industry and this programme exploits these links to ensure students are kept informed of leading edge business practice and knowledge. Guest speakers from a variety of organisations, including successful entrepreneurs from private and social enterprise, are regularly invited to speak to students as part of module delivery.

The strength of this innovative programme lies in the study of the interplay and interconnectedness between the three main themes of management, technology and enterprise. Management is studied from a number of perspectives including project management, strategic management, operations and

service management and innovation management. Technology is considered for maximising strategic opportunity and helping organisations achieve competitive advantage. Various types of enterprise are studied including public, private, voluntary and social enterprises to identify and exploit business opportunities.

The innovative subject area and curriculum prepare students with the skills required for the flexible working environment. Since entry to this programme is only at Year 3, student support is uniquely tailored for direct entry.

**UCAS code:** JN92

**Entry requirements:** HND in a relevant subject area, for example HND Admin & IT, HND Business or HND Information Technology (which must include some business related units). Students should achieve BBC at graded units. Other HNDs may be considered. Contact us for more details.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A combination of coursework and exams.

**Mode of study:** Full-time.

**Contact:** Margaret McCann

E: bamte@gcal.ac.uk

T: +44 (0)141 331 3973

[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** Year 1 and 2: HND in a relevant subject area at a recognised UK or overseas institution. Year 3: Strategic Management, Information Resource Management, Operations & Service Management, Entrepreneurship in Developing Organisations, Research and Consultancy Methods plus one option. Year 4: Dissertation, E-Business Management, Emerging Business Ventures, Innovation and Change Management plus one option.

**Career opportunities:** Graduates from the programme are likely to pursue a broad scope of different career paths which may include positions such as management, project management, operations management, business analyst, business/IT 'hybrid' manager, information services management, IT planning, technical services manager and business/IT consultancy.

**Note:** Module options include Business Web Innovation, Project Management, Financial Studies 3, Technology Strategy for Contemporary Organisations and Successful Business Life Cycles.





See page 125  
for language  
options.

**UCAS code:** N500

**Entry requirements:** Higher: BBCC, A-Level: CCD, ILC: BBBC

**Essential subjects:** English (H).

**Recommended subjects:** Mathematics (S).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A combination of coursework and exams.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Number of places:** 56.

**Mode of study:** Full-time.

**Contact:** Antoinette Fionda-Douglas

E: antoinete.fionda-douglas@gcal.ac.uk

T: +44 (0)141 331 3193

www.gcu.ac.uk/cbs

**What you'll learn:** **Year 1:** Marketing Fundamentals, core business modules and an optional subject. **Year 2:** Modules include Consumer Behaviour, Marketing Research and marketing options in addition to two core business and management modules. **Year 3:** Strategic Marketing Management, Integrated Marketing Communications and a variety of marketing options that include Internet Marketing and practical based Marketing Assignment. **Year 4:** Central to the fourth year is the Honours dissertation in which you have the opportunity to investigate a marketing related topic in some depth. This is combined with Changing Perspectives in Marketing Management and additional optional subjects.

**Career opportunities:** A qualification in marketing can open many different doors to graduates. The increasingly global nature of marketing means that many students can enjoy excellent career prospects both at home and abroad as marketing executives and sales executives and those with particular creative flair can find work in advertising and public relations.

**Note:** The first year of this degree gives you a broad introduction to Business and Management which provides a strong foundation for your studies in Marketing.

Marketing permeates every aspect of a well run business. It involves many different aspects such as advertising, sales, market research and new product development to create, promote and protect the company brand. Through understanding its customers and their needs and desires, a company can make itself, its goods or its services irresistible to consumers.

### Why Caledonian?

This programme equips you for a career as a marketing professional. You will gain a good balance of theory and practice and will have the opportunity to apply your skills to real world marketing situations. In addition to the central subject of marketing, students will study a range of complementary business modules which are common to most students in the Caledonian Business School. Your studies will include a variety of creative, practical applications of

marketing, market research and consumer behavioural knowledge, giving you invaluable experience of the 'creative team' based nature of the world of marketing.

Throughout the programme, students will enjoy the ability to select modules to complement their studies from a variety of related areas such as psychology, European languages, sociology and retailing related subjects.



# Media and Communication

BA/BA (Hons)

This degree is one of the longest established and most highly rated of its kind in Scotland – in The Times newspaper's Good University Guide for 2005, Glasgow Caledonian University was ranked the top university in Scotland for the teaching of media and communication.

## Why Caledonian?

Each year of the programme combines academic study of the media industries with practical work. In the first two years there are compulsory practical modules in Radio Production, Video Production and Web Design; and from the second year onwards you can choose to take a selection of up to six further practical subjects, including Public Relations, Events Management, News & Journalism and Languages.

The academic heart of the programme is equally demanding. The programme takes a broad-based approach to the study of broadcasting, the press, cinema, and the internet. It examines the role of media in society and how media industries are organised. Topics such as how different groups are presented and the behavioural impact of the media are also considered.

Opportunities exist for students to spend a year, or part of a year, abroad studying at either a European or North American university (Canada or USA).



**UCAS code:** PP93

**Entry requirements:** Higher: ABBB or equivalent, A-Level: BCC, ILC: ABBB

**Essential subjects:** English (H) or Media Studies (H) at B grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A combination of coursework and exams.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Exchanges:** Students have the opportunity to spend a year or part of a year studying at a university either in Europe or USA. Please see p124 for more details.

**Number of places:** 50.

**Mode of study:** Full-time.

**Contact:** Dr Catriona Miller

E: bajo@gcal.ac.uk

T: +44 (0)141 331 8097

www.gcu.ac.uk/cbs

**What you'll learn:** **Year 1:** You will be introduced to Media Studies, Psychology, Sociology, Radio Production and Business Web Media. **Year 2:** Studies include Media Policy, Video Production, Media & Communication Career Planning and a range of options including Events Management, News Writing, Feature Writing and Mass Media. **Year 3:** Subjects include Psychology & the Influence of the Media, Advanced Media Analysis and a wide range of both media analysis options (Situation Comedy, Television Drama, Music and Film) and others including PR, Business Web-Site Creation, Optional Reflection on Work Experience. **Year 4:** An Honours dissertation will be combined with options in, for example, Advanced Video Production, PR Campaign, Soap Opera and Society, Mega-Events, Cultural Theory and Film Theory.

**Career opportunities:** Graduates of this degree programme have traditionally gone on to a variety of careers involving communications such as marketing, public relations, corporate communications and advertising. An increasing number of graduates in recent years have also been successful in finding employment in the highly competitive fields of radio, TV, and the press.



# Retailing (Year 3 direct entry only)

BA/BA (Hons)

**UCAS code:** N240

**Entry requirements:** HND Retail Management or equivalent. Graded unit 2 at B or above.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Number of places:** 20.

**Mode of study:** Full-time.

**Contact:** Mandy Sheridan  
E: baretail@gcal.ac.uk  
T: +44 (0)141 331 8231  
www.gcu.ac.uk/cbs

**What you'll learn:** Year 1 and 2: HND in a relevant subject area at a recognised UK or overseas institution. Year 3: Strategic Retail Marketing, Retail Buying and Logistics, Retail Assignment, Business Research Methods or Option, Strategic Management and People Management Processes and Practice. Year 4: Central to the fourth year is the Honours dissertation in which you have the opportunity to investigate a retailing related topic in some depth. This is combined with Retailing in an International Context and additional optional subjects such as Retail Brand Strategy.

**Career opportunities:** This programme provides you with the vocational relevance to pursue a wide variety of career opportunities in the retail industry. Graduates have pursued careers in the areas of store management, retail buying, retail marketing and human resources. Others have set up their own business based on the skills developed throughout their degree.

Retailing is a dynamic and fast paced industry. The BA (Hons) Retailing degree at Glasgow Caledonian combines elements of retailing, marketing and human resource management to offer a unique and highly rated retail education. It will equip you with the skills and knowledge necessary to meet the challenges in this dynamic sector.

The degree has been designed in consultation with the retail sector and the teaching staff maintain close links with industry.

### Why Caledonian?

In addition to the central subject of retailing, students will study a range of complementary business modules which are common to most students in the Caledonian Business School. Your studies will include a variety of creative and practical applications of retail management, marketing and human resources, giving you invaluable experience and insight into the retail industry.

On joining the programme in year 3, the 'Retail Assignment' will give you a unique opportunity to discover your entrepreneurial flair as well as implementing the skills and knowledge that you have gained from your previous two years studies. The assignment is both challenging and exciting, involving the creation of an active-trading retail outlet. Personal skills such as teamwork and communication will be tested as you create a unique retail offer to real customers in a live retail setting. This is a genuine opportunity to put all that you have learned, as well as what you have still to learn, into practice. In the past, students have 'set up shop' in the prestigious Princes Square and the busy St Enoch' centre.

“The degree has been designed in consultation with the retail sector, giving students invaluable experience and insight into the retail industry.”

# Risk Management

BA/BA (Hons)

Glasgow Caledonian claims a truly unique status, as no other UK university offers a BA/BA (Hons) degree in Risk Management. As a result, leading companies approach the University directly when seeking to employ risk graduates.

## Why Caledonian?

Risk is an inherent part of everyday life and the Risk Management degree focuses on how organisations can maximise the positive aspects of risk and eliminate, or minimise, the potentially negative aspects.

Risk Management is now firmly part of the corporate and public sector agenda. As the only undergraduate programme of its type in Europe, the BA (Hons) Risk Management offers you a fantastic opportunity to be a graduate in demand.

Risk Management is the process whereby organisations identify the risks they face, evaluate the likely effect of those risks, introduce a range of control measures and finally monitor and evaluate the success of these measures. It involves the application of a number of techniques which combine both knowledge and problem-solving skills.

You will learn the application of these practical techniques through the evaluation of real life examples such as the Piper Alpha disaster, the collapse of Enron and the recent crisis in the Global Banking System. The emphasis is on the practical application of specialist knowledge and skills, complemented by regular talks from industry-related speakers and corporate sponsorship.



**UCAS code:** N291

**Entry requirements:** Higher: BBCC, A-Level: CCC, ILC: BBCC

**Essential subjects:** English (H), Mathematics (S).

**Recommended subjects:** Business-related subjects.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A combination of coursework and exams.

**Number of places:** 40.

**Mode of study:** Full-time.

**Contact:** John Hood  
E: bariskmgt@gcal.ac.uk  
T: +44 (0)141 331 3154  
[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** **Year 1:** Risk Management, Managerial Finance, Business Law, Economics, Data Analysis. **Year 2:** Risk Control, Risk Identification and Analysis, Risk Management in Organisations, Business Finance, Liability Risk Management and Management and Organisations. **Year 3:** Retention and Transfer of Risk, Business Continuity, Insurance Theory and Practice and Occupational Health and Safety, plus two options. Different options are available to build on your previous studies including Occupational Health and Hygiene, Project Risk Management and a number of financial services subjects. **Year 4:** An Honours dissertation, Enterprise Risk Management and Societal Risk Assessment will be combined with optional subjects to suit your interests and desired career pathway. These can include Public Sector Risk Management, International Management of Risk and Corporate Finance and Investment.

**Career opportunities:** Graduates have found employment with organisations such as the BBC, Glaxo Smithkline, Scottish Power, Network Rail, JP Morgan, the Sydney Olympics organisers, AON Risk Services and the National Criminal Intelligence Service. You will also enjoy assistance from our dedicated careers tutor, who will help you to find related work experience during your studies and also to find employment following graduation. The exemptions from professional examinations which the degree offers also make our Risk Management graduates attractive to employers.

**Note:** The first year of this degree gives you a broad introduction to business and management which provides a strong foundation for your studies in Risk Management.



# Sport and Active Lifestyles Promotion

BA/BA (Hons)

See page  
114 for how to  
apply.

**UCAS code:** CN65

**Entry requirements:** Higher: BBCC, A-Level: CCD, ILC: BBCC

**Essential subject:** English (H) at grade C.

**Recommended subjects:** Biology (H) or Human Biology (H) at grade C; consideration will be given to applicants with science subjects at Standard Grades levels 1 or 2.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** An industrial work experience component runs throughout the degree. Supported through a Personal Development Planning process, you will need to complete a minimum of 300 working hours, in an appropriate context, before entry to Year 3.

**Assessment:** A combination of presentations, essays, reports and case study analysis within, where appropriate, live practical situations. A dissertation project is undertaken in Year 4.

**Summer School:** Opportunities are available to enhance foundational knowledge in core programme areas. See p131 for details.

**Exchanges:** Existing relationships in Canada and the USA are being developed to enhance the portfolio of exchange opportunities. These are made available to Year 3 students.

**Number of places:** 40.

**Mode of study:** Full-time.

**Contact:** Dr Matt Frew  
E: [basalp@gcal.ac.uk](mailto:basalp@gcal.ac.uk)  
T: +44 (0)141 331 8468  
[www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs)

**What you'll learn:** Year 1: Marketing Fundamentals; Understanding Sport, Fitness and Lifestyle; Conceptualising Cultural Environments; General Psychology; Introduction to PR; Information and Planning in the Cultural Sector. Year 2: Perspectives of People at Work; Managing Risk in Cultural Contexts; Sport and Exercise Psychology; Physical Activity and Health; Sport, Physical Activity and Inclusion; Management and Organisations. Year 3: Strategic Management; Capable Professional Practice; Public Relations; Research Methods in the Cultural Sectors; Comparative Policy in the Cultural Sector; Health Perspectives/Policy and Practice in Organisational Wellness OR Option. Year 4: Dissertation; Globalisation, Culture and Lifestyle; Sport, the Body and Identity; PR Campaign; Option.

**Career opportunities:** There are opportunities for graduates to secure jobs across the public, private and voluntary sectors that span sport, active lifestyles, health and wellbeing. These could include community action officers, active schools coordinators, sports development, sports policy and sports administration, health and fitness and community health officers.

**Note:** In levels 1 and 2, students undertake foundational sports leadership awards. Additionally, students can apply to Leisure Development Fund to finance Governing Body Qualifications.

With concerns over health and policy agendas focused on crime, economic development and educational re-engagement, sport and physical activity has become a key force in effecting lifestyle change.

The BA (Hons) Sport and Active Lifestyles Promotion programme is a specialist degree that will equip students with the necessary skills that will allow them to address the challenges of delivering the benefits sport and physical activity can offer individuals, communities and society.

### Why Caledonian?

The specialist nature of this degree is reflected in its design. Led by the Division of Cultural Business, within Caledonian Business School, the degree works in partnership with the Schools of Life Sciences and School of Health. The degree means you will engage with areas such as psychology, health, promotion, and sport and physical activity, among others.

As well as requiring and facilitating work experience, the degree builds in practical sport and physical activity qualifications. In addition to this, you will be encouraged to develop a portfolio of experience and further national governing body qualifications throughout your degree. With a lecturing team well connected and actively researching within the field of sport and physical activity, this degree will furnish you with the competencies, experience and practical skills that will enhance your employability and establish a positive platform for you to forge a future career.



# Work Based Learning

BA/BA (Hons)

Glasgow Caledonian University has developed Work Based Learning modules to allow a holder of a Higher National Diploma or equivalent to complete a degree in as little as 12 months, through linking academic studies to learning in the workplace. Workshops are held on evenings at the city centre campus.

This programme is work-based so students must be employed.

### Why Caledonian?

The programme is currently unique to Scotland in offering a work based learning route to achieving an undergraduate degree. It is designed to improve the learning and development skills that can contribute to both your personal development and to your work. These skills will also enable you to design and complete an Integrated Work Based Project relating to your role at work. Throughout the

programme, students play a major role in designing their own assessments based upon work activities.

The BA by Learning Contract offers a top-up programme from HND to degree level. Modules will be delivered by a mixture of structured tutorials, workshops, supported study and work-based and online activities. This programme is delivered on Tuesday evenings, two modules at a time.

**Entry requirements:** HND or equivalent. Please contact the Programme Administrator for details of specific entry requirements.

**Assessment:** A combination of coursework and exams.

**Number of places:** 20

**Mode of study:** Part-time.

**Contact:** Caroline Tuff

E: [c.tuff@gcal.ac.uk](mailto:c.tuff@gcal.ac.uk)

T: +44 (0)141 273 1277

[www.gcu.ac.uk/scwbl](http://www.gcu.ac.uk/scwbl)

**What you'll learn:** The programme is made up of six work based learning modules: Personal and Professional Development through Work Based Learning, Learning and Development; Organisational Issues in Practice, Learning and Development; People Issues in Practice, Learning and Development; Change Issues in Practice, Learning and Development; Quality Issues in Practice, The Integrated Work Based Learning Project.

**Note:** You need to be in full or part-time employment with access to email.

**Note:** This is a unique programme, designed specifically for HND holders in employment who wish to top up their diploma to a degree, providing real benefits to both student and employer.





## New programmes in development

Addressing and exploring some of the most exciting and interesting subject areas in the current business environment, Caledonian Business School are developing a range of new degrees for 2011 entry. All of these degree programmes are subject to approval.

### **BA/BA (Hons) Human Resource Management - Year 3 Direct Entry only**

Designed for HND/Diploma graduates, this programme's content is distinctive in complying with the requirement of the new CIPD Certificate of Human Resource, providing both a theoretical and practical grounding in HRM best practice. This will provide graduates of the programme with a clear employability advantage in furthering their career ambition to become professional human resource manager. Graduates of this programme can progress to MSc level study in HRM.

### **BA/BA (Hons) International Hospitality & Tourism Enterprise - Year 3 Direct Entry only**

This programme provides HND graduates with a flexible path to a degree in a dynamic sector with demand across the globe. At the heart of this programme are core management skills with the opportunity to develop particular expertise in hospitality and tourism sectors. Graduates of this programme can progress to MSc level study in International Tourism Enterprise.

### **BA/BA (Hons) International Retail Marketing**

This programme is designed to be intellectually challenging and commercially relevant. It will provide opportunities to develop a fundamental knowledge of retail management and marketing, as well as business understanding and applicable skills demanded by organisations operating in today's increasingly competitive and international retail environment. The overall aim of this is to expose the learner to the business context of retailing as an academic discipline and a management function to provide graduates with the ability to think across functional boundaries.

### **BA/BA (Hons) International Travel & Tourism Enterprise - Year 3 Direct Entry only**

Contemporary tourism has become for many countries the fastest growing economic sector in terms of job creation and foreign exchange earnings. International tourism can contribute not only to local infrastructure, but also improve living and social conditions for local communities and boost their economy. This programme will provide opportunities for HND graduates to develop these skills and gain the knowledge necessary to recognise current trends and development challenges. Graduates of this programme can progress to MSc level study in International Tourism Enterprise.

### **BA/BA (Hons) Management - Year 3 Direct Entry only**

This programme is a general management degree designed for HND holders and aims to produce graduates who can effectively pursue operational line management positions in a range of diverse organisations, including public, private and non-profit, as a stepping stone to more senior management positions. Programme content will cover strategic management, human resource management and operations management, including performance, service quality and supply chain management and logistics.

“For more information regarding any of these programmes, visit [www.gcu.ac.uk/cbs](http://www.gcu.ac.uk/cbs).”

Welcome to the School of Engineering & Computing. We offer a range of innovative, professionally orientated programmes within and across the disciplines of Computing, Engineering and Creative Technologies. Our programmes focus strongly on relating your studies to the 'real' world of employment and are also enriched by our strong commitment to integrate research and knowledge transfer activity into our teaching.

**Professor Malcolm Allan**, Dean (Acting) School of Engineering and Computing

The School of Engineering and Computing offers undergraduate, postgraduate, professional short course training and research opportunities in the three broad areas of Computing and Creative Technology, Communication, Network and Electronic Engineering and Energy Systems Engineering.

#### **Industry and professional partnerships**

The school has an excellent track record of offering innovative programmes which meet the needs of today's students by working closely with leading employers, both locally and nationally.

Within a large number of our degree programmes, we offer the opportunity to incorporate practical training in industry. This experience, which is normally paid, is highly regarded by potential employers.


#### **Professional accreditation**

Excellent links with professional bodies mean that programmes are developed in line with the accreditation standards of organisations including the British Computer Society (BCS), the Institute of Engineering and Technology (IET) and the Institution of Mechanical Engineers (IMechE).

#### **Facilities**

The school's range of modern teaching facilities include: a fully equipped games laboratory with Emotion Lab; specialist engineering facilities including industrially supported laboratories; high specification networking labs; an audio workstation laboratory using various software packages including Digidesign Pro-Tools, Steinberg Cubase, dB audioware Quantum FX, Sony Acid Pro and Sony Sound Forge; two professional recording studios with Digidesign Pro Tools HD systems; and an extensive range of specialist audio equipment including Trinnov Optimiser and surround sound location recording systems incorporating Soundfield microphone and laptop recording.





School of  
Engineering  
and Computing



## Student profile

Graeme McMullen

**Name:** Graeme McMullen

**Programme:** BSc (Hons) Network and System Support

**Year of Study:** 4th

### Why did you choose your programme at GCU?

It was unique in that it offered a generic first two years of study (shared with other related courses) which gave a wide knowledge base and then allowed me to specialise in my final two years.

### What are you enjoying most about life at the University?

I enjoy the University's flexibility with 24 hours library access and late opening. GCU is also very well placed for access to the city centre and fits conveniently into the rest of my life.

### What are you enjoying most about your programme?

The programme offers not only comprehensive theory but also the opportunity to gain practical skills in a mock-up lab environment.

### Do you belong to any University clubs or societies?

I am very much involved in the Students' Association. I currently sit on the Student Executive as Campaigns Officer and enjoy working with students and staff to create policy that reflects student views.

### What is your best experience so far?

Last year I was lucky enough to be picked to represent the university on a trip to China. A group of us travelled over and met with officials from the University of Jinan. We stayed for two weeks and I gained a valuable insight into higher education and day-to-day life in the region.

### What do you think about Glasgow as a place to study?

Glasgow is a great city. I have lived within 15 minutes of the University for the past four years and I have always liked the city. It is also very well connected - I travel a lot and Glasgow's main train stations and airports are very close by, making the city a great base for onward travel.

### What single word sums up your GCU experience so far?

Inspiring

### What do you plan to do after you graduate?

I plan to put my degree to use within the IT industry. However I also hope to continue to volunteer, using the skills I have developed over the last four years.





**UCAS code:** G610

**Entry requirements:** Higher: BBB, A-Level: DDE, ILC: BBC.

**Recommended subjects:** Art (H).

**Additional requirements for entry:** Successful applicants will be invited to submit a portfolio prior to being offered a place on the programme.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work experience:** Students benefit from guest lecturers from the creative industries and an industrial project in their fourth year.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Summer School:** If required, a Summer School is available for Mathematics. Please see p131 for details.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Design Process, 2D Design, Digital Design, 3D Visualisation, Digital Video, Design Context. **Year 2:** Animation, 3D Modelling, Portfolio Production, Interactive Media Programming, Motion Graphics. **Year 3:** Lighting and Rendering Techniques, Advanced Animation, Individual Project, Group Project, Advanced Portfolio Production, Advanced 3D Modelling. **Year 4:** Honours Project, Real-time 3D Graphics, Technical Animation, Industrial Project.

**Career opportunities:** The BA (Hons) in 3D Computer Animation will provide students with the opportunity to develop the necessary skills and knowledge to enjoy a number of careers within the creative industries such as 3D animator, 3D modeller, game animator, architectural visualisation artist, 3D graphic designer, video SFX artist and pre-visualisation artist for TV and film.

**Note:** Year 1 is common to a number of other creative courses within the division of Computing and Creative Technology and is designed to give the student the opportunity to explore a range of creative disciplines. This offers the student the possibility of changing to one of these other courses at the start of Year 2.

## The BA (Hons) 3D Computer Animation programme is designed to provide graduates with the right mix of practical design skills and theoretical knowledge necessary for a career as a 3D Animator.

3D Computer Animation will appeal to students who wish to combine their traditional art skills with cutting edge creative technology in 3D animation combined with digital video and motion graphics. The course is practically focused and provides the student with the opportunity to develop a significant digital media portfolio in preparation for working within the creative industry.

### Why Caledonian?

Taught on campus, at the heart of Glasgow's city centre, the BA (Hons) 3D Computer Animation offers hands-on access to high-end professional tools and facilities. Where appropriate, the course uses industry standard software and students have the opportunity to develop their skills and become an active member of the creative industries. Studio facilities include 3D Computer Animation Lab, HD Video Production Suite, Art Studio,

Digital Audio Recording Studio and Game Design Studio – which together host several pieces of equipment including 3D Laser Scanning tools, Motion Capture tools and a Rapid Prototyping Machine for realising your digital work as a tangible art asset.

All creative courses at Glasgow Caledonian University aim to enhance the students' employability skills and the group portfolio elements provide the opportunity to work within teams alongside colleagues from complimentary creative production disciplines. This method of learning, along with the industrial-based projects, provides a commercially rich environment from which to begin an exciting career within the creative industry.



# Audio Technology with Electronics

BSc/BSc (Hons)

The audio industry provides us with the means to use sound to educate, work and entertain. These programmes offered within the School of Engineering and Computing cover the latest technologies used within the audio industry.

Audio is an everyday part of our lives, be it through listening to music on a portable player, catching up on the latest news on digital radio or experiencing a live show of our favourite artists.

## Why Caledonian?

The BSc (Hons) Audio Technology with Electronics is designed to give a firm grounding in audio with an emphasis on the technology and engineering that features in audio equipment and software. Drawing on the established engineering and audio expertise within the University, the programme covers the audio signal path from the recording process, through mixing and mastering, to distribution and transmission both from practical and theoretical standpoints.

As the focus of the programme is on audio, opportunities will be given to acquire appropriate audio production skills in the University's specialist studio facilities using a range of industry standard equipment and software. The other principle areas covered in the programme are that of acoustics both in relation to audio production and to musical instruments, digital signal processing, audio software design and development, physical computing and audio interface design and electronic engineering.

Glasgow Caledonian University has been at the forefront of education in audio technology for many years. It has developed an excellent reputation in teaching and more recently in research in audio technology.



**UCAS code:** J931

**Entry requirements:** Higher: BBC, A-Level: BC, ILC: BC.

**Essential subjects:** Maths (H) or Physics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditation:** The BSc (Hons) Audio Technology with Electronics programme is accredited by the Institution of Engineering & Technology (IET).

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for details.

**Mode of study:** Full-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** Programme themes include: sound production, acoustics, digital signal processing, audio software design and development, physical computing and audio interface design, electronic engineering and technical mathematics.

**Career opportunities:** Graduates from this programme and its forerunner can now be found in many parts of the audio and multimedia industries including posts such as broadcast engineer, sound engineer, audio technician, journalist, lecturer and games sound designer. In addition, many have used their broad range of skills to secure employment in related industries such as computing, networking and software engineering and electronics.



# Audio Technology with Multimedia

BSc/BSc (Hons)

See page  
116 for entry  
requirements.

**UCAS code:** J932

**Entry requirements:** For Year 3 entry – HND or equivalent in appropriate discipline such as Sound Production, Music & Audio Technology.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditations:** The BSc (Hons) Audio Technology with Multimedia programme is accredited by the Institute of Engineering & Technology (IET).

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Mode of study:** Full-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
www.gcu.ac.uk/sec

**What you'll learn:** Year 1 and 2: Relevant HND at recognised Further Education College. Years 3 and 4: Course themes include sound design for games, audio software design and development, physical computing and audio interface design, web-based audio, video and animation.

**Career opportunities:** Graduates from these programmes and their forerunners can now be found in many parts of the audio and multimedia industries including posts such as broadcast engineer, sound engineer, audio technician, journalist, lecturer and games sound designer. In addition, many have used their broad range of skills to secure employment in related industries such as computing, networking and software engineering and electronics.

Audio is an everyday part of our lives, be it through listening to music on a portable player, catching up on the latest news and entertainment on the web or experiencing a live show of our favourite artists.

The audio industry provides us with the means to use sound to educate, work and entertain. These programmes within the School of Engineering and Computing cover the latest technologies used within the audio industry.

### Why Caledonian?

This programme has been specifically designed to build upon and broaden the knowledge that you will have gained during your HND. It gives you the opportunity to extend and apply your technical knowledge, and to analyse the effectiveness of audio technology and techniques. In addition, the programme looks at many of the technologies that will be making their impact on our lives in the near future.

The programme produces graduates who can access a broad range of careers within the audio and new media industries. Personal music players, streaming audio, sound production software, video games – these are all applications of modern audio technology. This innovative programme looks at all aspects of audio in new technologies, and provides the opportunity to design and develop audio applications and systems. Experience of this broad range of audio applications and technology is essential to the modern audio professional.

“This programme offers access to a broad range of careers within the audio and new media industries.”

# Computer Aided Mechanical Engineering

BSc/BSc (Hons)

Computer aided mechanical engineering is the application of state-of-the-art computer technology and software to the design, manufacture and control of engineering components, products and systems.

It allows engineers to design and test new products or systems without having to build prototypes. Essentially a form of 'virtual engineering', the engineer can design and analyse a product or system using the computer to accurately simulate real situations and stresses that may be placed upon it. This allows the engineer to identify and rectify any problems that the product may develop, saving the huge development costs of actually manufacturing and testing the product or system, only to discover a fault.

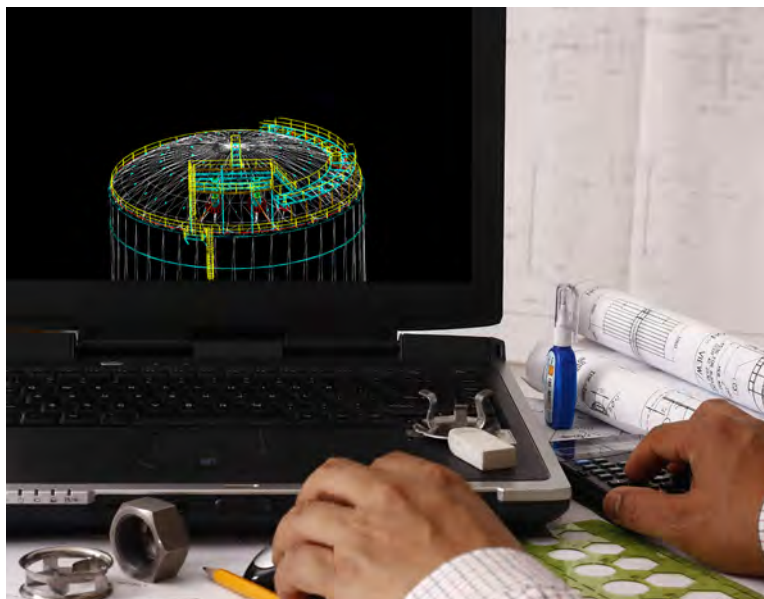
## Why Caledonian?

This degree provides an excellent broad-based Mechanical Engineering education combined with the application of Computer Aided Design (CAD) and Computer Aided Manufacture (CAM). Utilising industry standard software such as 'ACAD', 'Pro Engineer' and 'Ansys', you will gain an understanding of the fundamental principles of engineering - design, control, materials and

manufacturing methods. With this understanding and through the application of the computer techniques, you will learn to provide solutions to complex engineering problems as well as for engineering systems and processes.

This programme is particularly suitable for numerate and communicative individuals interested in the design and manufacture of components and systems. Various industry prizes are awarded annually for academic achievement. Project work is related to real problems, giving you insight into the workings of industry.

You will benefit from studying in a state-of-the-art learning environment, using extensive IT and specialist engineering laboratories. In addition, staff operate an 'open door' policy within the school.



**UCAS code:** H131

**Entry requirements:** Higher: BBC or BCCC, A-Level: CD/DDE, ILC: BBC.

**Recommended subjects:** Maths (H), Physics (H) or Technological Studies (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditation:** This programme is accredited by the Institute of Engineering & Technology (IET) leading to IEng Professional Status.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Exchanges:** The School of Engineering and Computing has numerous European Exchange agreements through which opportunities are available to study a trimester at a partner institution. Please see p124 for more details.

**Mode of study:** Full-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Engineering Computing 1, Technology Management, Mechanical Principles A, Engineering Applications (with PDP), Electronic and Electrical Principles, Mechanical Principles B, Technical Mathematics 1, Engineering Materials. **Year 2:** Computer Aided Engineering, Engineering Design & Analysis, Mechatronics 1, Mechanical Engineering Design, Project Studies, Materials & Manufacture 2, Fundamentals of Quality Assurance. **Year 3:** Industrial Studies, Manufacture & Materials 3, Computer Aided Engineering, Control Systems 2, Engineering Analysis 3, Applied Project Methodology. **Year 4:** Technical Project (40), Finite Element Analysis, Simulation for Manufacturing, Engineering Analysis 4, Computer Aided Design 2, Electro-Mechanical Condition Monitoring, Integrated Studies 4.

**Career opportunities:** Due to the range of subjects studied, you are able to follow a career within the extensive mechanical engineering fields of design, CAD/CAM, manufacturing and control engineering, thus preparing you for the exciting world of design, analysis and manufacture, allowing involvement in the areas of high technology consumer and industrial products such as robotics.



**UCAS code:** H600

**Entry requirements:** Higher: BBC, A-Level: CC/DDE, ILC: BBC.

**Recommended subject:** Maths (H) or Physics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Specifically designed to encourage students to take a year out in industry before completing the Honours year.

**Assessment:** Assessment methods used to demonstrate achievements of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Mode of study:** Full-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Introduction to Programming, Introduction to Network Technology, Technology Management, Electronic and Electrical Principles, Engineering Applications, Communications and Information Technology, Mathematics. **Year 2:** Visual Software Development, Electronic Engineering, Software Development Principles, Systems Engineering Principles, Microcomputer Systems, Project Studies, Fundamentals of Quality Assurance. **Year 3:** Industrial Studies, Engineering Computing, Multimedia Systems and Media Editing, WWW Authoring Systems, Communications and the Internet, Team Project. **Year 4:** Technical Project, Visual Database Development, Simulating Multimedia Networks, Multimedia Technology, Digital Forensics

**Career opportunities:** The Engineering Council identified computer engineering as a growth area within the UK economy. Students from the programme will possess good academic and practical skills in computer engineering, electronics, telecommunication systems and multimedia technology to support manufacturing, business and product support in computer technology for various providers and users.

Computer Engineering is a rapidly advancing technology involving the application and integration of computer and electrical design techniques, communications engineering, computer simulation techniques and computing, to create complex engineering solutions to the design, manufacture and control of systems and sub-systems.

In order to stay competitive, commerce and industry requires graduates who are knowledgeable in these techniques and their application.

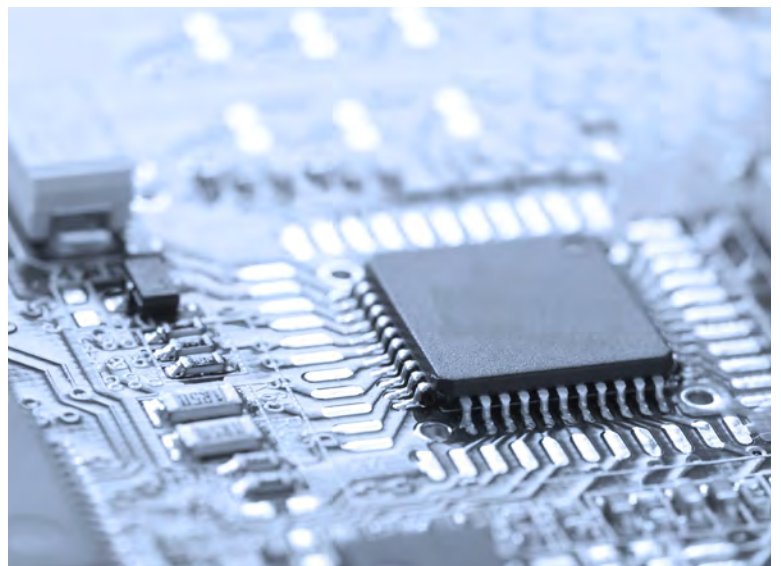
#### Why Caledonian?

This programme provides undergraduate engineers with an integrated set of computer communications, information technology, computer aided design and software development technological skills. Of equal importance is the fundamental knowledge in electrical and electronic engineering, mathematics, computing, engineering applications and business issues.

Your understanding of the operational functions of computers and computer-related hardware will be served by the

engineering elements of the programme, while study of information technology and software development allows you to understand and counter any compatibility issues involved in creating operational systems or networks for organisations. The programme does not train students in the particular features of one type of network or software application, but rather focuses upon broad learning across all types that may be encountered in the workplace.

You will benefit from studying within the state-of-the-art facilities on offer within the school, meaning your learning keeps pace with the rapid developments of industry. Staff within the school also operate an open door policy to students, creating a friendly and supportive learning environment.



# Computer Games (Art and Animation)

BA/BA (Hons)

The BA (Hons) Computer Games (Art and Animation) programme is designed to provide graduates with the right mix of practical skills and theoretical knowledge necessary for a career as a Game Artist.

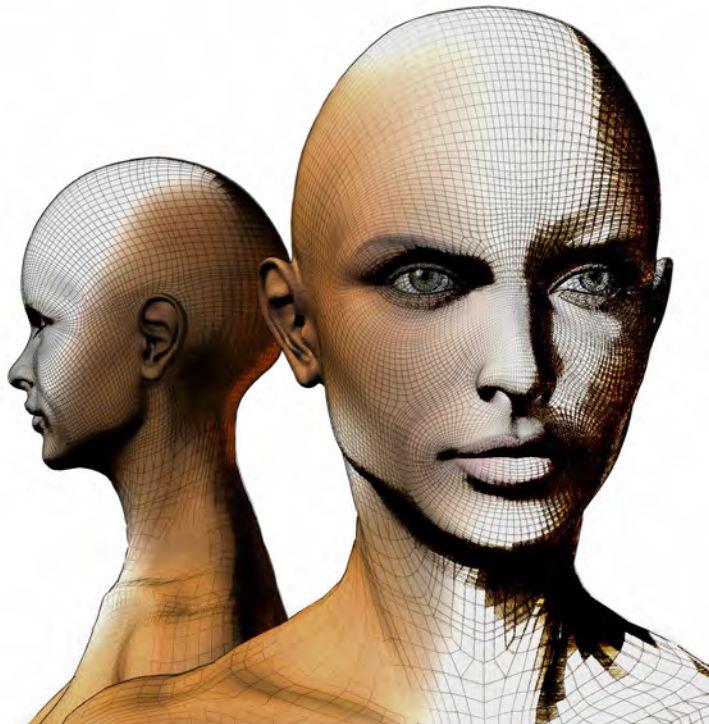
Game Art will appeal to students who wish to combine their traditional art skills with cutting edge creative technology in 3D art, animation and motion graphics. The course is practically focused offering continual opportunity for portfolio development.

## Why Caledonian?

Taught on campus, at the heart of Glasgow's city centre, BA/BA (Hons) Computer Games (Art and Animation) offers hands-on access to high-end professional tools and facilities, giving students the opportunity to develop their skills and become an active member of the creative industries. Studio facilities include HD Video Production Suite, Art Studio, Digital Audio Recording Studio and Game Design Studio – which together host

equipment including 3D Laser Scanning tools Motion Capture tools, and a Rapid Prototyping Machine for realising your digital work as a tangible art asset.

All game courses at Glasgow Caledonian University offer high integration and collaboration across the development disciplines. Many aspects of a student's portfolio will be the product of group work, where team-based colleagues will be chosen from complimentary game production courses. This method of learning, along with the industrial-based projects, provides a commercially rich environment from which to begin an exciting career within the games industry.



**UCAS code:** GW4G

**Entry requirements:** Higher: BBB, A-Level: DDE, ILC: BBC.

**Recommended subjects:** Art (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Successful applicants will be invited to submit a portfolio prior to being offered a place on the programme.

**Work experience:** Students will complete an industrial project during their fourth year.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Design Process, 2D Design, Digital Design, 3D Visualisation, Digital Video, Design Context. **Year 2:** Animation, 3D Modelling, Game Design, Portfolio Production, Interactive Media Programming, Motion Graphics. **Year 3:** Lighting and Rendering Techniques, Advanced Animation, Individual Project, Group Project, Advanced Portfolio Production, Advanced 3D Modelling. **Year 4:** Honours Project, Real-time 3D Graphics, Technical Animation, Industrial Project.

**Career opportunities:** A graduate from the BA/BA (Hons) Computer Games (Art and Development) course will have the necessary skills and knowledge to enjoy a number of careers within the creative industries, including 3D game artist, conceptual game artist, game animator, video SFX artist, pre-visualisation artist for TV and film.



See page  
114 for how to  
apply.

**UCAS code:** GWK2

**Entry requirements:** Higher: BBB (one sitting); BBBC (two sittings), A-Level: CC, ILC: BBB.

**Essential subjects:** Mathematics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** The programme features an optional one-year sandwich placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

www.gcu.ac.uk/sec

**What you'll learn:** **Year 1:** Computer Systems Development, Database Development, Games Design, Web Development, Programming, Media Content Creation, Integrated Project 1, Computer Systems, Mathematics for Computer Games 1. **Year 2:** Interactive Storytelling, Games Design 1, Software Modelling, Analysis and Design 1, Multimedia Authoring, Interaction Design, Integrated Project 2. **Year 3:** Games Design 2, Psychology of Design, Graphic Design for Interactive Multimedia, Animation, New Venture Creation, Integrated Project 3. **Year 4:** Honours Project and Research Methods, Games Design 3, Honours Project, Reflective Practice for Personal Development, Serious Game Design.

**Career opportunities:** Graduates will enjoy excellent employment opportunities as the computer games industry continues to grow and can expect to find work as both game designers and programmers. The games and creative media industries are areas of significant growth within the Scottish Economy. The industry has identified the role of game designers as a pivotal one and their recruitment and educational background as an ongoing problem for the industry. Thus, the aim of the BSc/BSc (Hons) Computer Games (Design), is to meet the employer led requirements for the job role of game design.

**Note:** All students entering first year on the suite of computing based programmes (BSc Computer Games, BSc Computing, BSc Information Technology Management for Business and BSc Networking and Systems Support) follow a common first year. This commonality provides a taster in a variety of subject areas to help students confirm their choice of specialist programme for Year 2 onwards.

The video games industry continues to grow every year with constant advances made in the field of Video Games Technology. Subsequently, the software is always evolving in order to push the limits of this technology and produce more and more advanced computer gaming experiences for the increasingly sophisticated gamer.

The BSc/BSc (Hons) Computer Games programme suite aims to meet these continuing and development needs of the computer games industry.

#### Why Caledonian?

This programme is designed to provide graduates with the right mix of skills and knowledge needed to become a Game Designer. Game Design embraces a broad area of concerns encompassing elements of both software development and computer arts. This is reflected in the programme which embraces both the Software Engineering (usability/HCI) elements of Game play, Game level design, and key elements of Game Narrative and Story Telling which forms a critical element in the successful development of modern and complex computer games. The Design stream also provides coverage of computer arts, i.e specialist media design and creation and game asset integration requirements for the game designer.

An optional feature of this programme is the one-year sandwich placement. This can be undertaken after completing the BSc 3rd year. The placement consists of a year of practical paid work experience in a suitable company position. The different types of posts undertaken can be of quite a diverse range but will always relate to your area of study. Recently students have been placed with companies such as IBM, Dell Corporation, National Australia Group, The Royal Bank of Scotland, Strathclyde Police among others. Undertaking the placement can provide valuable experience to enhance your career prospects following your graduation.

“Game Design embraces a broad area of concerns encompassing elements of both software development and computer arts.”

# Computer Games (Software Development)

BSc/BSc (Hons)

Study the creation of computer games software in state-of-the-art facilities. You will utilise the most up-to-date tools of the industry to learn the many different skills involved in the creation of cutting edge games software.

## Why Caledonian?

The BSc/BSc (Hons) Computer Games (Software Development) programme stream will emphasise the technical programming requirements (including the mathematics and implementation of physical mechanics), but would also share an appreciation of the core elements of Game Design.

Your studies will include the creation of 2D and 3D graphics, the incorporation of 3D animation in games, the creation of 'thinking' creatures, new product development and professional issues involved in the development of software. This learning is underpinned by the teaching of the basic concepts required to master the design process of computer games.

Students will develop games for the current game industry platforms such as Xbox 360, Playstation and Nintendo.

An optional feature of this programme is the one-year sandwich placement. This can be undertaken after completing the BSc third year. The placement consists of a year of practical paid work experience in a suitable company position. The different types of posts undertaken can be of quite a diverse range but will always relate to your area of study. Recently students have been placed with companies such as IBM, Dell Corporation, National Australia Group, The Royal Bank of Scotland and Strathclyde Police among others. Undertaking the placement can provide valuable experience to enhance your career prospects following your graduation.



**UCAS code:** W280

**Entry requirements:** Higher: BBB (one sitting); BBBC (two sittings), A-Level: CC, ILC: BBB.

**Essential subjects:** Mathematics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** The programme features an optional one-year sandwich placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Summer School:** If required, Summer School is available for Mathematics. Please see p125 for more details.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Computer Systems Development, Database Development, Games Design, Web Development, Programming, Media Content Creation, Integrated Project 1, Computer Systems, Mathematics for Computer Games 1. **Year 2:** Games Design 1, Object Oriented Software Development, Software Modelling, Analysis and Design 1, Games Programming 1, Interaction Design, Integrated Project 2. **Year 3:** Mathematics for Computer Games 2, Console Programming, Software Processes and Practices, Games Programming 2, Game Artificial Intelligence, Integrated Project 3. **Year 4:** Honours Project and Research Methods, Games Programming 3, Honours Project, Reflective Practice for Personal Development, Rich Internet Applications, 3D Internet Virtual Worlds.

**Career opportunities:** Graduates will enjoy excellent employment opportunities as the computer games industry continues to grow and can expect to find work as both game designers and programmers. The games and creative media industries are areas of significant growth within the Scottish economy. The industry has identified the role of game designers as a pivotal one and their recruitment and educational background as an ongoing problem for the industry. Thus, the aim of the BSc/BSc (Hons) Computer Games (Design), is to meet the employer led requirements for the job role of game design.

**Note:** All students entering first year on the suite of computing based programmes (BSc Computer Games, BSc Computing, BSc Information Technology Management for Business and BSc Networking and Systems Support) follow a common first year. This commonality provides a taster in a variety of subject areas to help students confirm their choice of specialist programme for Year 2 onwards.



# Computing (Information Systems Development)

BSc/BSc (Hons)

**UCAS code:** G400

**Entry requirements:** Higher: BBC, A-Level: CC, ILC: BBC.

**Recommended subjects:** Computing (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** The programme features an optional one-year sandwich placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

www.gcu.ac.uk/sec

**What you'll learn:** Year 1: Computer Systems Development, Database Development, Web Development, Programming, Media Content Creation, Integrated Project 1, Computer Systems and Network Technology, Business Data Analysis Techniques for Decision Making. Year 2: Web Programming 1, Object Oriented Software Development, Software Modelling, Analysis and Design 1, Multimedia Authoring, Interaction Year 3: Web Programming 2, Database Systems Development 1, Software Processes & Practices, Software Modelling, Analysis and Design 2, Information Systems Security, Integrated Project 3. Year 4: Honours Project and Research Methods, Web Programming 3, Professional Issues, Rich Internet Applications.

**Career opportunities:** Careers in computing or IT are varied as most organisations now require computing professionals to work within their structure – regardless of whether their sector is IT related. Graduates of the BSc/BSc (Hons) Computing (Web Systems Development) could enter positions such as web designer, web programmer and web systems developer. Graduates from this programme embark on careers as computing professionals in the analysis, design and development of software and information systems in a wide variety of application areas. Our record of graduate employment is excellent, particularly as a wider range of computing areas open up.

**Note:** All Year 1 students on the suite of computing based programmes (BSc Computer Games, BSc Computing, BSc Information Technology Management for Business and BSc Networking and Systems Support) follow a common first year. This provides a taster in a variety of subject areas to help students confirm their choice of specialist programme for Year 2 onwards.

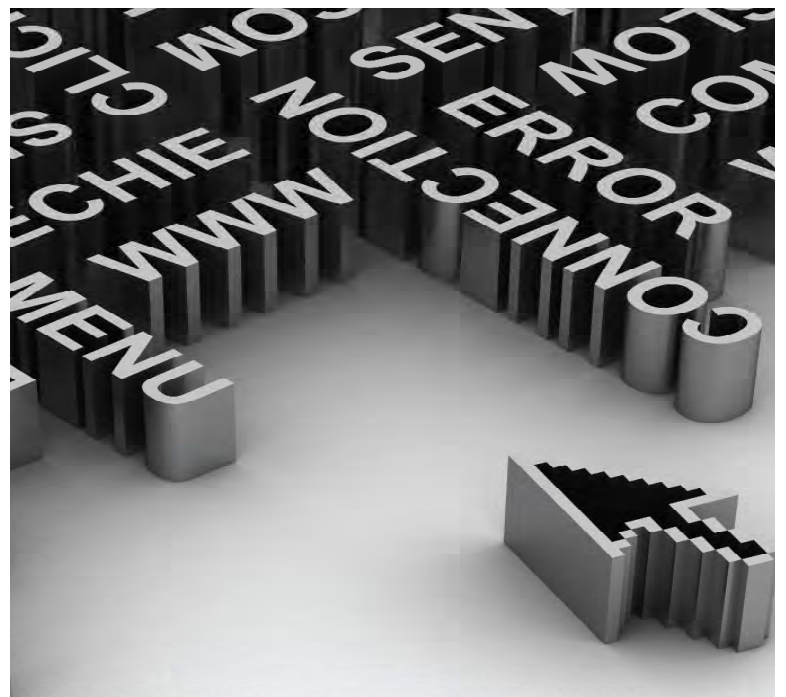
Study on a programme that provides practical coverage of the modern software skills required for the development of computer systems across a full range of commercial and industrial software-based applications.

The need for computing professionals continues to grow, with demand for problem solving knowledge and expertise affording graduates excellent career opportunities.

## Why Caledonian?

The BSc/BSc (Hons) Computing (Information Systems Development) programme is concerned with the software engineering and development of the 'core' business-based information systems upon which the vast majority of business and organisational functions depend. These would tend to be large scale data base centred systems, many of which would be web-enabled. This programme, therefore, has a significant emphasis on key information systems skills, such as systems analysis, design and data modelling.

An optional feature of this programme is the one-year sandwich placement. This can be undertaken after completing the BSc 3rd year. The placement consists of a year of practical paid work experience in a suitable company position. The different types of posts undertaken can be of quite a diverse range but will always relate to your area of study. Recently students have been placed with companies such as IBM, Dell Corporation, National Australia Group, The Royal Bank of Scotland, Strathclyde Police among others. Undertaking the placement can provide valuable experience to enhance your career prospects following your graduation.



# Computing (Web Systems Development)

BSc/BSc (Hons)

Study on a programme that provides practical coverage of the modern software skills required for the development of computer systems across a full range of commercial and industrial software-based applications.

The need for computing professionals continues to grow, with demand for problem solving knowledge and expertise affording graduates excellent career opportunities.

## Why Caledonian?

The BSc/BSc (Hons) Computing (Web Systems Development) programme is concerned with the software engineering and development of internet enabled software applications. These systems would be used in a wide variety of application domains. Many may be information and transaction centred, but many will be involved in multimedia centred applications and as 'free-standing' products. This programme, therefore, incorporates elements of the information systems branch of the computing discipline family, but also combines this with up-to-date web based software development technologies along with an appreciation of media design and creation.

An optional feature of this programme is the one-year sandwich placement. This can be undertaken after completing the BSc 3rd year. The placement consists of a year of practical paid work experience in a suitable company position. The different types of posts undertaken can be of quite a diverse range but will always relate to your area of study. Recently students have been placed with companies such as IBM, Dell Corporation, National Australia Group, The Royal Bank of Scotland and Strathclyde Police among others. Undertaking the placement can provide valuable experience to enhance your career prospects following your graduation.

**UCAS code:** G400

**Entry requirements:** Higher: BBC, A-Level: CC, ILC: BBC.

**Recommended subject:** Computing (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** A combination of coursework and exams.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Computer Systems Development, Database Development, Web Development, Programming, Media Content Creation, Integrated Project 1, Computer Systems and Network Technology, Business Data Analysis Techniques for Decision Making. **Year 2:** H Web Programming 1, Object Oriented Software Development, Software Modelling, Analysis and Design 1, Multimedia Authoring, Interaction **Year 3:** Web Programming 2, Database Systems Development 1, Software Processes & Practices, Software Modelling, Analysis and Design 2, Information Systems Security, Integrated Project 3. **Year 4:** Honours Project and Research Methods, Web Programming 3, Professional Issues, Rich Internet Applications.

**Career opportunities:** Careers in computing or IT are varied as most organisations now require computing professionals to work within their structure – regardless of whether their sector is IT related. Graduates of the BSc/BSc (Hons) Computing (Web Systems Development) could enter positions such as web designer, web programmer and web systems developer. Graduates from this programme embark on careers as computing professionals in the analysis, design and development of software and information systems in a wide variety of application areas. Our record of graduate employment is excellent, particularly as a wider range of computing areas open up.

**Note:** All Year 1 students on the suite of computing based programmes (BSc Computer Games, BSc Computing, BSc Information Technology Management for Business and BSc Networking and Systems Support) follow a common first year. This provides a taster in a variety of subject areas to help students confirm their choice of specialist programme for Year 2 onwards.





# Digital Forensics and e-Discovery\*

BSc/Bsc (Hons)

See page  
125 for  
language  
options.

**UCAS code:** G550

**Entry requirements:** Higher: ABB, A-Level: CDD, ILC: BBB.

**Essential subjects:** Mathematics (H), English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants will be interviewed prior to an offer being made.

**Work placement:** Optional one-year sandwich placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditations:** To ensure graduates have excellent employment opportunities, the course has been designed with reference to accreditation criteria set by the British Computer Society (BCS) and the Institution of Engineering and Technology (IET). It is envisaged that the degree will be put forward for accreditation when the first graduates in 2013.

**Language option:** Students can opt to study language modules as part of this degree. Please see p125 for more details.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Exchanges:** There are numerous opportunities to study a trimester at a partner institution.

**Mode of study:** Full-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Computer Systems Development, Programming, Database Development, Computer Systems and Network Technology, Digital Security Practises, e-Discovery, Data Analysis Techniques, Integrated project. **Year 2:** Digital Forensics 1, Security Fundamentals, Ethical and Legal Aspects of Computing, Cybercrime, Forensic Investigation, Integrated Project. **Year 3:** Digital Forensics 2, Law of Evidence, Ethical Hacking, Computer Law and Digital Investigations, Security Principles, Integrated Project. **Year 4:** Project Methods and Honours Research, Professional Issues, Digital Forensics 3, Advanced Security Concepts and an elective.

**Career opportunities:** As the industry continues to grow rapidly, graduates with skills in digital security will be at the forefront of the new developments and will therefore enjoy excellent wide and varied employment opportunities. We would expect graduates to embark on a range of career pathways including government agencies, law enforcement or associated private sector agencies, supporting specialist roles such as forensic practitioners, and security and forensic consultants, network administrators and computer systems management.

Digital forensics is the analysis of data contained within and created with digital systems and embedded devices (iPods, Phones, GPSs, PDAs, etc.), typically in the interest of figuring out what happened, when it happened, how it happened and who was involved.

This can be for the purpose of establishing the root cause or to find out who is responsible for misuse of digital systems, or perhaps who committed a crime.

### Why Caledonian?

The School has a strong ethos of providing career oriented learning experiences and has established itself as an approved provider for professional certifications, notably from Cisco, Microsoft, Oracle, EMC and the leading Information Security and Computer Forensics firm, 7Safe. Building on links with our strategic partners we have developed a new undergraduate curriculum that is at the cutting edge of new advances in digital forensics.

The programme offers an industrial and business-related curriculum geared towards producing graduates with technical, analytical and evaluative skills, together with expertise in data recovery, preservation, analysis and the provision of evidence for legal or commercial use. Students will explore the nature of digital evidence, learn what is acceptable in law, and what is not, and focus on the special issues surrounding computer crime. This multidisciplinary programme combines core technological concepts with the subject of forensics, with emphasis on the principles, techniques, theory and applications central to the subject of digital forensics. Upon completion, students will be competent in all areas of digital forensic investigations, audit network and system security, detect intrusions, ethical and privacy considerations and legal requirements.

Within this suite of digital security alternative pathways exist which enables Mathematics, Business Management or Software Development to be included in the curriculum. This has been designed specifically to address the importance of digital security in a range of complementary fields and meet the demands of the continually evolving field of digital security.

**Note:** All students entering first year on the suite of digital security based programmes follow a common first and second year. This flexible design enables students to establish a foundation on which to build upon and experience an insight into the alternative pathways enabling students to develop their interest and specialise in this selected area at the end of year 2. The third and fourth year specialises a student's knowledge and experience in the areas of digital forensics with significant hands on experience of forensics and security techniques.

\* Three BSc/BSc (Hons) options: **BSc/BSc (Hons) Digital Forensics and e-Discovery with Business/Business Management/Software Development.**

# Digital Security and Ethical Hacking\*

BEng/BEng (Hons)/BSc/BSc (Hons)

See page  
116 for entry  
requirements.

Whether it be high-profile hacking incidents, controversies surrounding lost data, identity-theft or insecure systems, it is impossible to ignore the importance of digital security. Ethical hacking uses a combination of processes as pre-emptive measures against malicious attacks by attacking the system.

Ethical hackers work within the law to penetrate computer and network systems employing the same methods as a Hacker, to locate weaknesses and then design countermeasures through the design of secure systems.

## Why Caledonian?

The school has a strong ethos of providing career oriented learning experiences and has established itself as an approved provider for professional certifications, notably from Cisco, Microsoft, Oracle, and the leading Information Security and Computer Forensics firm, 7Safe. Building on links with our strategic partners we have developed a new undergraduate curriculum that is at the cutting edge of new advances in digital security.

The philosophy of the programme is to combine core information technology concepts with specialised knowledge and skills in the distinctive discipline of digital security. The aim is to teach students the theory and practical skills of how illegal computer attacks are performed and the methods employed to counteract them.

On this programme, students will learn about computer architecture, operating systems, programming and networks. In addition, students will also be taught about the legal framework surrounding the use of computers, particularly with regard to privacy, freedom of information and powers of investigation. Students will specialise in all aspects of digital security including ethical hacking, intrusion detection, data recovery and security systems design.

Within this suite of digital security alternative pathways exist which enables Mathematics, Business Management or Software Development to be included in the curriculum. This has been designed specifically to address the importance of digital security in a range of complementary fields and meet the demands of the continually evolving field of digital security.

**Note:** All students entering first year on the suite of digital security based programmes follow a common first and second year. This flexible design enables students to establish a foundation on which to build upon and experience an insight into the alternative pathways enabling students to develop their interest and specialise in this selected area at the end of Year 2. The third and fourth year specialises a student's knowledge and experience in the areas of security, computer law, and digital investigation.

\* Three BSc/BSc (Hons) options: **BSc/BSc (Hons) Digital Security and Ethical Hacking with Mathematics/Business Management/Software Development.**

**UCAS code:** G551

**Entry requirements:** Higher: ABB, A-Level: CDD, ILC: BBB.

**Essential subjects:** Mathematics (H), English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** The programme features an optional one-year sandwich placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditations:** To ensure graduates have excellent employment opportunities, the course has been designed with reference to accreditation criteria set by the British Computer Society (BCS) and the Institution of Engineering and Technology (IET). It is envisaged that the degree will be put forward for accreditation when the first graduates in 2013.

**Language option:** This programme can be combined with a language. See p125 for details.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Exchanges:** There are numerous opportunities to study a semester at a partner institution.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Computer Systems Development, Programming, Database Development, Computer Systems and Network Technology, Digital Security Practises, e-Discovery, Data Analysis Techniques, Integrated Project. **Year 2:** Digital Forensics 1, Security Fundamentals, Ethical and Legal Aspects of Computing, Cybercrime, Forensic Investigation, Integrated Project. **Year 3:** Ethical Hacking, Network Investigation Principles, Security Principles, Cyberlaw, Integrated Project. **Year 4:** Honours Project, Honours Research and Project Methods, Professional Issues, Advanced Ethical Hacking & Penetration Testing, Advanced Security Concepts and an Elective.

**Career opportunities:** A qualification in digital security will provide graduates with attractive career prospects in the interesting field of attack and defence scenarios. A potentially large job market is emerging for graduates in this area. We would expect graduates to embark on a range of career pathways including infrastructure management and security consultants (systems penetration testers).



**UCAS code:** BEng: G600, BSc: G400

**Entry requirements:** BEng: Higher: BBBB, A-level: BBC, ILC: BBBC. BSc: Higher: BBB, A-level: BC, ILC: BBB.

**Essential subjects:** Maths (H) and Physics (H) or Technology Studies (H); English (S/O).

**Recommended subjects:** Chemistry (H), English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Optional one-year sandwich placement after completion of Year 3.

**Assessment:** Methods include examinations, coursework, class tests, presentations, computer-based exercises, laboratory based demonstration and written reports.

**Professional accreditations:** Designed to meet the needs of industry and the accreditation criteria set by the Institute of Engineering and Technology (IET formerly the IEE). The course contributes to the academic registration as a practicing Chartered Engineer.

**Language option:** The programme can be combined with a language. See p125 for details.

**Summer school:** If required, Summer School is available for Mathematics. Please see p131 for moore details.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

www.gcu.ac.uk/sec

**What you'll learn:** Year 1: Digital & Analogue Electronics; Intro to Programming; Intro to Computer Architecture, Intro to Network Technologies; Mechanical Principles; Engineering Materials; Applied Mathematics; Profession Practice; Electronic Product Design. Year 2: Electrical Principles & Circuit Theory; Software Development for Engineers; Data Communications and Transmission Systems; Digital & Programmable Systems I; Control & Instrumentation; Electronic Product Development; Professional Practice. Year 3: Applied Mathematics; Digital & Programmable Systems II; Signals & Electronic Systems Design; Wireless Communication Principles; Electronic Product Design III; Supply Logistics & Operations Management; Specialist options. Year 4: Honours Research & Project Methods; Individual Project; Digital Signal Processing; Professional Practice. Specialist options.

**Career opportunities:** Graduates find employment in a wide range of industrial sectors and motivated graduates frequently progress rapidly to positions of responsibility with high levels of remuneration. Industrial sectors such as health care, medical, instrumentation, automotive and transport, business, travel and tourism, and, interactive entertainment are exciting and growing areas of interest. Graduates also find good career prospects outside Engineering where your highly developed knowledge and skills are recognised.

Do you get excited by the ground breaking design of the new 'iPhone 3G'? How often do you reach for the Nintendo 'DS Lite' for entertainment? Where would we be without that new GPS navigator in the family car? So many of the wide range of electronic gadgets we see around us today seem essential to the way we work and play.

Many individuals and companies have built reputations and wealth on innovation and the development of new product ideas. Yet so much more remains to be done in the invention and design of new products, in the use of new technologies, and through enhancing the performance or function of exciting products many of which contain embedded programmable microelectronic devices.

#### Why Caledonian?

This exciting new programme forms part of our new Electronic Product Design Engineering suite which has been developed to prepare you for a rewarding career in key areas of electronic and computer based product design engineering. The suite offers pathway flexibility and articulation between the BSc and BEng routes at the end of 2nd year. Each programme in the suite combines knowledge of current and exciting new technologies, the application of electronic product design engineering knowhow, the development of business management and entrepreneurship skills, and an awareness of the globalization of product development. We provide you with a learning experience that allows you the opportunity to become a well-rounded engineer, able to exercise leadership, initiative, personal responsibility and decision making in complex and unpredictable situations.

We aim to encourage your creative thinking, to develop your design visualization skills, to expand your knowledge, confidence and professional values, so that you can move into a successful career in innovative product design where electronics is the key.

Students will benefit from:

- experience of, and the opportunity to transfer to, other programmes within the Electronic Product Design Engineering suite.
- significant exposure to team based projects and problem based learning, and opportunities to develop your key soft skills.
- industrial partnerships that provide access to design-oriented case studies and projects, work experience and real world problems.
- an emphasis on market and business realities and exposure to entrepreneurship through the CISCO Entrepreneurship Institute.
- well-equipped design studios to encourage and explore design ideas and well equipped electronic laboratories giving students access to leading edge technologies.
- the award of credit to extra curricular activities that evidence engineering professionalism.
- the opportunity to study management and software development specialisms (BSc)

\* Those eligible for BSc entry follow the BSc/ BSc (Hons) Computer and Communications Systems Engineering.

# Electrical Power Engineering

BEng/BEng (Hons)

Electrical Power is at the heart of modern society. The infrastructure used for production, control and management of the electricity network is overseen by engineers.

Electrical Power Engineering encompasses the fields of power generation, transmission, distribution and utilisation. Power Engineers are concerned with efficient energy conversion and with design of systems involving electric motors and electronic drive technologies.

## Why Caledonian?

The pace of technological innovation has significantly weakened the boundaries between the traditional engineering disciplines, with employers expecting engineers to function over a wide range of possible solutions to an engineering task. The Electrical Power Engineering and the Electronic Engineering degrees at Glasgow Caledonian University have been designed to provide applied insight into challenges facing modern graduates through project work which applies skill-sets from both degrees.

These interactive projects enable the graduate to work in industrial, challenging environments and enable them to adapt and change as circumstances dictate. The innovative degree is designed to produce highly skilled Electrical Power Engineers who have expertise ranging from engineering system design to condition monitoring and management of systems. This broad-based programme provides two foundation years which give underpinning in mathematics and the disciplines of mechanical, electronic and electrical engineering. It is possible to transfer to other degree courses, such as Electrical Power Engineering, Manufacturing Systems Engineering or Mechanical Electronic Systems Engineering, at points through the programme.



**UCAS code:** H630

**Entry requirements:** Higher: BBBC, A-Level: BC, ILC: BBBC.

**Essential subjects:** Maths (H) and Physics (H) or Technological Studies (H).

**Recommended subjects:** Chemistry (H), English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Examinations, coursework, class tests, presentations, computer-based exercises and written reports are used to demonstrate achievement of learning outcomes.

**Professional accreditations:** Accredited by the Institution of Engineering & Technology (IET formerly IEE) and contributes to the academic registration as a Chartered Engineer.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Exchanges:** The School of Engineering and Computing has numerous European Exchange agreements providing opportunities to study a trimester at an EU partner institution.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Principles of Programmable Systems, Electrical Principles and Circuit Theory, Professional Orientation and Practice 1, Mechanical Principles A, Engineering Materials, Mathematics 1, Mechanical Principles B, Engineering Applications. **Year 2:** Electronic Engineering 2, Engineering Design and Analysis, Mathematics 2, Engineering Computing 2, Control Engineering 2, Manufacture & Materials 2, Project Methodology. **Year 3:** Control Engineering 3, Integrated Studies 3, Plant and Electrical Distribution, Quality Assurance, Power Electronic Systems 3, Communications Engineering, Technology Management 3. **Year 4:** Project, Power Plant Engineering, Digital Signal Processing, High Voltage Engineering, Condition Monitoring, Control Engineering 4.

**Career opportunities:** Chartered Electrical Engineers are creative, innovative individuals responsible for leading the development and implementation of sophisticated technologies into systems. The global nature of the electrical power industry provides career opportunities in Europe and beyond. We have strong links with major power generation, transmission and distribution companies such as ScottishPower, National Grid plc and EDF Energy. Graduates from GCU courses are employed by electrical utilities and industries which use electrical power to carry out their daily business, e.g. Ineos petrochemical industries and Network Rail. Electrical Engineering graduates can pursue a career across the world.



**UCAS code:** W290

**Entry requirements:** Higher: BBC, A-Level: CC, ILC: BBC.

**Advanced entry:** Students with UCAS tariff of 300 points or above from the study of appropriate Advanced Higher or A level subjects will be eligible to apply for Year 2 entry subject to interview with portfolio. Students with an HND in Graphic Design (or equivalent) will be eligible to apply for Year 3 entry subject to interview with portfolio.

**Essential Subjects:** Art & Design and English. Higher or Advanced Higher or Art at A-level and English at GCSE level.

**Additional Requirements for Entry:** Interview with portfolio.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work Experience:** Industrial Project in Year 4.

**Assessment:** Most coursework is project-based requiring assessment of a number of skills including application of graphic design principles and techniques, technical ability, subject knowledge and analysis, depth of research and process, as well as oral and written presentation. Individual to every subject, assessment usually takes the form of visual and written presentations of project work and/or research.

**Number of Places:** 20.

**Mode of study:** Full-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
www.gcu.ac.uk/sec

**What you'll learn:** **Year 1:** You will explore and experience the design process providing the basis for further study. Through the study of design history and design in context you will consider the historical significance of design and its influence on society. Creative and technical drawing techniques and skills will be introduced and practised using a variety of media. **Year 2:** You will focus on the fundamentals of Graphic Design including an introduction to digital media and the web. You will learn about the importance of the user and develop professional skills including portfolio development and presentation techniques. **Year 3:** Concentrates on studio projects that engage with more advanced digital media including motion graphics, animation and web design. Professional skills are further enhanced aligning projects with professional practice. **Year 4:** As well as an honours project, you will be given the opportunity to choose an area of specialism – marketing, animation, interactive media or video. An industrial project will provide you with the opportunity to put professional skills into practice.

**Career opportunities:** Graduates from this programme will leave with the creative and professional skills required to become successful digital media designers. With these skills, graduates will be prepared to work in a wide range of industries including in-house design teams, design studios, television, animation.

Illustration by: Calum Loudon, 1st year student

Graphic design is a form of visual communication. Having expanded the boundaries of graphic design to include animation, interactive media, web design, digital illustration and motion graphics, digital media is an essential part of today's design education.

The new BA/BA (Hons) Graphic Design for Digital Media programme prepares graduates to design creatively using industry standard technologies.

#### Why Caledonian?

Today's successful graphic designers combine a highly developed creative design process with accomplished digital media skills. Unlike the traditional art school approach, this new four-year programme addresses both of these areas by emphasising not just the process of design but also the technical skills needed to create your work digitally. Through studio-based design projects, you will learn how to design using software from the latest Adobe Creative Suite (Photoshop, Illustrator, Flash, Premiere, Dreamweaver,

After Effects and InDesign). This software will be supported and taught in technical modules equipping you with the necessary skills to create state of the art graphics of a professional standard.

In Year 1, you will explore the creative process through a variety of imaginative projects placed within the context of design culture. Year 2 builds on this foundation by introducing the core elements of graphic design. By Year 3 you will begin to establish your individual style as a graphic designer through rigorous projects and advanced software. This prepares you for a final year of independent projects, industrial opportunities and skills to help you succeed after graduation.



This programme reflects the distinctive specialist requirements of an applied IT based programme relating to supporting the development of information systems for the needs of business applications and organisations.

The central theme of this programme is the application of IT to business, but with an appropriate combination of information systems skills, to enable the support for the engineering development, and use of the information centred systems upon which the vast majority of business functions depend.

#### Why Caledonian?

This programme is particularly targeted at meeting the key requirements business have for IT and business aware graduates, who also have a distinct awareness of project and 'people' management skills.

The framework for this programme has been specifically developed by e-skills through direct consultation with large scale industry 'players' including BA, BT, Ford, Fujitsu, HP, IBM, Lehman Brothers, Morgan Stanley, Norwich Union and Unilever.

The programme aims to provide students with an understanding of the IT needs for the deployment of business-centred systems, as well as the necessary understanding of the business models, needs and organisational structures which these systems support.

An optional feature of this programme is the one-year sandwich placement. This can be undertaken after completing the BSc third year. The placement consists of a year of practical paid work experience in a suitable company position. The different types of posts undertaken can be of quite a diverse range but will always relate to your area of study. Recently students have been placed with companies such as IBM, Dell Corporation, National Australia Group, The Royal Bank of Scotland and Strathclyde Police among others. Undertaking the placement can provide valuable experience and enhance your career prospects following your graduation. Graduates will be well placed to undertake additional assessment and professional certification such as Cisco Certification.

**UCAS code:** GN52

**Entry requirements:** Higher: BBC, A-Level: CC, ILC: BBC.

**Recommended subjects:** English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** The programme features an optional one-year sandwich placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Mode of study:** Full-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Computer Systems Development, Database Development, Web Development, Programming, Media Content Creation, Integrated Project 1, Computer Architecture and Networking Technology. **Year 2:** Software Modelling, Analysis and Design 1, managerial Finance, Visual Software Development, Interaction Design, Management and Organisation, Integrated Project 2. **Year 3:** IT Project Management 1, Database Systems Development 1, Strategic Management, Communications and the Internet, Financial Planning and Decision Making for Managers, Integrated Project 3. **Year 4:** Honours Project and Research Methods, IT Project Management 2, International Business Strategy, Professional Issues, Database Systems Development 2.

**Career opportunities:** Careers in computing or IT are varied as most organisations now require computing professionals to work within their structure – regardless of whether their sector is IT related.

**Note:** All Year 1 students on the suite of computing based programmes (BSc Computer Games, BSc Computing, BSc Information Technology Management for Business and BSc Networking and Systems Support) follow a common first year. This provides a taster in a variety of subject areas to help students confirm their choice of specialist programme for Year 2 onwards.



# Instrumentation Systems Engineering\*

BEng/BEng (Hons)/BSc/BSc (Hons)

**UCAS code:** BEng: H661, BSc: H692

**Entry requirements:** BEng: Higher: BBBB, A-level: BBC, ILC: BBBC. BSc: Higher: BBB, A-level: BC, ILC: BBB.

**Essential subjects:** Maths (H) and Physics (H) or Technology Studies (H); English (S/O).

**Recommended subjects:** Chemistry (H), English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Optional one-year sandwich placement after completion of Year 3.

**Assessment:** Methods include examinations, coursework, class tests, presentations, computer-based exercises, laboratory based demonstration and written reports.

**Professional accreditations:** Designed to meet the needs of industry and the accreditation criteria set by the Institute of Engineering and Technology (IET formerly the IEE). The course contributes to the academic registration as a practicing Chartered Engineer.

**Language option:** The programme can be combined with a language. See p125 for details.

**Summer school:** If required, Summer School is available for Mathematics. See p131 for details.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** Year 1 (common): Digital & Analogue Electronics; Principles of Programmable Systems; Intro to Computer Architecture, Intro to Network Technologies; Mechanical Principles; Engineering Materials; Applied Mathematics; Profession Practice; Electronic Product Design. Year 2 (common): Electrical Principles & Circuit Theory; Software Development for Engineers; Data Communications & Transmission Systems; Digital & Programmable Systems I; Control & Instrumentation; Electronic Product Development; Professional Practice. Year 3: Applied Mathematics; Principles of Measurement Systems; Control Engineering III; Wireless Communication Principles; Fundamentals of Signal Conditioning; Electronic Product Design III; Supply Logistics and Operations Management. Specialist options. Year 4: Honours Research & Project Methods; Individual Project; Industrial Instrumentation & Practice; Professional Practice. Specialist options.

**Career opportunities:** We expect graduates from our Electronic Product Design Engineering programme suite to pioneer or contribute significantly to the design and development of the next generation of electronic and computer related products. Graduates find employment in a wide range of industrial sectors such as health care, medical, instrumentation, automotive and transport, business, travel and tourism, and, interactive entertainment. Graduates also find good career prospects outside Engineering where your highly developed knowledge and skills are recognised.

The rapidly evolving and exciting discipline of instrumentation is increasingly finding application and providing solutions to measurement problems in such diverse fields as biomedical, automotive, aerospace, energy, environmental, building and climate monitoring.

This is fuelled by innovation and convergence of technologies such as wireless communications, embedded intelligence, novel sensor design, MEMS technology, digital signal processing, data and information visualization. In these medical, scientific, and industrial sectors there is an increasing demand for engineering personnel equipped with the necessary blend of technical and managerial skills to contribute and deliver innovation. In a more traditional role, instrumentation engineers are in high demand in industries with automated processes, such as chemical, oil and gas or manufacturing plants with the goal of improving system productivity, reliability and stability. They are responsible for the design, construction and maintenance of instruments and entire instrumentation systems.

## Why Caledonian?

This exciting new programme forms part of our new Electronic Product Design Engineering suite which has been developed to prepare you for a rewarding career in key areas of electronic and computer based product design engineering. The suite offers pathway flexibility and articulation between the BSc and BEng routes at the end of 2nd year. Each programme in the suite combines knowledge of current and exciting new technologies, the application of electronic product design engineering knowhow, the development of business management and entrepreneurship skills, and an awareness of the globalization of product development. We provide you

with a learning experience that allows you the opportunity to become a well-rounded engineer, able to exercise leadership, initiative, personal responsibility and decision making in complex and unpredictable situations. We aim to encourage your creative thinking, to develop your design visualization skills, to expand your knowledge, confidence and professional values, so that you can move into a successful career in innovative product design where electronics is the key. Students will benefit from:

- experience of, and the opportunity to transfer to, other programmes within the Electronic Product Design Engineering suite.
- significant exposure to team based projects and problem based learning, and opportunities to develop your key soft skills.
- industrial partnerships that provide access to design-oriented case studies and projects, work experience and real world problems.
- an emphasis on market and business realities and exposure to entrepreneurship through the CISCO Entrepreneurship Institute.
- well-equipped design studios to encourage and explore design ideas and well equipped electronic laboratories giving students access to leading edge technologies.
- the award of credit to extra curricular activities that evidence engineering professionalism.
- the opportunity to study management and software development specialisms (BSc)

\* Those eligible for BSc entry follow the **BSc/ BSc (Hons) Instrumentation and Robotic Systems Engineering**.



# Interactive Media Development

BSc/BSc (Hons)

In the rapidly expanding and changing area of interactive systems, there is a strong demand for designers and developers who can create sophisticated interactive products. This requires a wider range of skills than ever before.

There is a need for such developers to have a sound technical knowledge of software tools and hardware platforms as well as the creative design skills, knowledge and understanding to produce effective solutions.

## Why Caledonian?

Glasgow Caledonian University is at the forefront of the developments in this field. Our multimedia and interactive systems courses were some of the first in Scotland and the UK. Our new programme builds on the expertise gained from running successful courses in these areas for the last 12 years.

The programme is part of a suite of programmes which share common elements relevant to the Creative Industries. These provide opportunities to develop skills across a range of creative areas.

Core themes of the programme are:

- Development of interactive systems
- Web systems development
- Human Computer interaction design

The programme has strong project driven base to support the development of professional and transferrable skills. This culminates in a major honours project in the student's specialist interest area.

This new programme is based around a set of core modules in the first year. These allow students to develop and enhance their understanding of the principles which underpin the different subject areas.

The programme aims to produce well rounded multi-disciplinary professionals with strengths in areas such as multimedia content creation, web design, interactive media, web software development and human computer interaction design. This is integrated with an understanding of the wider design issues of the digital environment within which multimedia is used, reinforced with good personal, inter-personal and team-working skills. Later years delve more deeply into the specialist areas, allowing students to concentrate on developing relevant professional skills and to graduate ready to meet the demands of the growing creative industries in Scotland and worldwide.

**UCAS code:** G440

**Entry requirements:** Higher: BBB, A-Level: DDE, ILC: BBC.

**Essential subjects:** Maths (H) or Computing (H) at B is recommended.

**Recommended subjects:** Suitable Highers include Art and Design, Graphic Communications, Computing, Maths, Physics, English, History, Geography and Modern Studies.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditations:** Accreditation for the programme is being sought from the Institute of Engineering and Technology.

**Mode of study:** Full-time.

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** This year covers a broad range of design and digital media creation subjects including topics such as 2D design, digital design skills, video editing and web authoring. Students are also introduced to the process and context of design and to the use of a variety of industry standard digital media creation tools (e.g. Dreamweaver, Photoshop, Illustrator, Premiere). **Year 2:** This year builds on the design and media creation skills introduced in the first year and adds web and scripting techniques required to develop dynamic and interactive interfaces. **Year 3:** This year develops student's scripting and programming skills while continuing to build their experience of current digital media tools and developing their knowledge of design and industry through the study of topics such as Human Computer Interaction and New Venture Creation. **Year 4:** The Honours year allows the students to develop their skills to greater depth while dealing with more open ended and challenging problems. A major project and specialist options also prepare the students for the creative industries.

**Career opportunities:** The programme is designed to furnish students with the professional skills required to become effective designers and developers of interactive media as well as providing them with the transferrable skills required by the industry. Typical careers include web designers, e-Commerce, content developers, multimedia development, mobile application development, educational software development and postgraduate study.



**UCAS code:** W240

**Entry requirements:** Higher: ABC or BBB, A-Level: CDD, ILC: BBC.

**Recommended subjects:** Art and Design and/or Product Design (H) and English (S).

**Additional requirements for entry:** Successful applicants will be expected to submit a portfolio and attend an interview.

**FE college students:** Appropriate HNC with a minimum of AB in graded unit together with portfolio and interview. Contact us for a copy of our College Student Supplement.

**Work experience:** Opportunities are available to exhibit and showcase your work and participate on an exchange programme in Year 3.

**Assessment:** Project based assessments which include oral presentations.

**Exchanges:** The School of Engineering and Computing has numerous European Exchange agreements through which opportunities are available to study a trimester at a partner institution. These include exchange partners in Germany, Slovakia, Czech Republic and Finland. See p118 for more details.

**Mode of study:** Full-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Communications 1, Design Studies 1, Professional Practice 1, Design Culture. **Year 2:** Communications 2, Design Studies 2, Professional Practice 2, Design Culture 2. **Year 3:** Communications 3, Design Studies 3, Professional Practice 3, Design Culture 3. **Year 4:** Product Innovation, Product Realisation, Professional Practice 4.

**Career opportunities:** Our graduates can go on to take a variety of influential positions such as in-house designers, freelance designers, digital designers and design/account managers or set up their own design business.

**Note:** Candidates who narrowly miss out on entry to year 1 will be offered the opportunity to apply for a place on the HNC Product Design programme at Cardonald College. Candidate taking up this option will upon enrolment, be given a conditional offer for year 2 of International Product Design.

This programme combines the design and development of products with international experiences and placements. You will produce real solutions to real problems learning the skills required to progress along the entire route from problem identification to commercial realisation.

#### Why Caledonian?

Working within a purpose-built design studio you will have the opportunity to collaborate with other local and international students on design projects. Students are encouraged to design, develop, manufacture and sell their own products culminating in a batch manufactured product in year 4. Opportunities to exhibit and showcase your work are numerous and students have participated in International Design Workshops, exhibited at the Milan Design Week and 100% Design, London, and have even had a product demonstrated on national TV. You will develop several tailor-made projects in your final year which will enable you to become proficient in the wide range of business design and manufacturing areas.

Each student will have the opportunity to be considered for an Erasmus exchange in Year 3 of the programme. We currently have exchange partners in Germany, Slovakia, Czech Republic and Finland.

The University is committed to supporting student business ventures, with funding and assistance available for development and launch of new business ideas.

“This programme benefits from the school’s close links with the organisations who set **national** and **global** design standards.”

# Mechanical Electronic Systems Engineering

BEng/BEng (Hons)

Mechanical Engineering is a highly integrated discipline, which harnesses the influence of a range of other specialisms such as electronics, in the design and development of today's products. The engineering industry needs multi-disciplined engineers with the ability to respond to the rapid changes taking place within the mechatronics industry.

This BEng programme provides an excellent opportunity to become a multi-skilled engineer, able to understand and utilise appropriate methods from a range of engineering disciplines.

## Why Caledonian?

This innovative degree is designed to produce highly skilled Manufacturing System Engineers and provides awareness and understanding of the practical issues involved in the design, specification, maintenance, commissioning and manufacture of mechanical-electronic systems and associated systems. It is a broad-based programme comprising of two foundation years which are common to all of the BEng degree programmes, giving a solid ground in mathematics and a grounding in mechanical, manufacture, electronic and electrical engineering.

Consequently, on completion of Year 2, it is possible to transfer to Year 3 of the Electrical Power Engineering or Electronic Engineering programmes.

The programme provides a combination of theoretical study with 'hands on' experience. It is designed to align particularly with the requirements of the Engineering Council in providing breadth in the study of engineering disciplines and also business and financial aspects, key to successful operation in industry. You will also study the use of Computer Aided Design (CAD) and Computer Aided Manufacture (CAM) using industry standard software such as Pro Engineer, ensuring your learning keeps pace with industry.

Throughout your studies, you will enjoy the use of state-of-the-art IT and specialist engineering laboratories. This degree has been designed to meet the needs of industry and is accredited by the Institute of Mechanical Engineers (IMechE), leading to CEng professional status.

**UCAS code:** H360

**Entry requirements:** Higher: BBBC, A-Level: BBC, ILC: BBBC.

**Essential subjects:** Maths (H) and Physics (H) or Technological Studies (H).

**Recommended subjects:** Chemistry (H), English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement** Optional one-year placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditations:** This programme is accredited by the Institute of Mechanical Engineers (IMech.E) and the Institute of Engineering and Technology (IET) and contribute to the academic requirements for registration as a Chartered Engineer.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Principles of Programmable Systems, Electrical Principles and Circuit Theory, Professional Orientation and Practice 1, Mechanical Principles A, Engineering Materials, Mathematics 1, Mechanical Principles B, Engineering Applications. **Year 2:** Electronic Engineering 2, Engineering Design and Analysis, Mathematics 2, Engineering Computing 2, Control Engineering 2, Manufacture & Materials 2, Project Methodology. **Year 3:** Control Engineering 3, Integrated Studies 3, Quality Assurance, Technology Management 3, Manufacturing and Materials 3, Engineering Analysis 3, Mechanical Engineering Design. **Year 4:** Project, Finite Element Analysis, Engineering Design Process, Engineering Analysis 4, Control Engineering 4.

**Career opportunities:** Career opportunities are both wide and varied within this ever-expanding field, due to the multi-disciplinary nature of the programmes. Employment opportunities exist in the fields of mechanical design, manufacturing and mechatronics engineering. Graduates from this programme have found success in a variety of local, national and international industries and consultancies, such as mechanical, aerospace, electronic, offshore, local authority, manufacturing and building services. Glasgow Caledonian University has many links with blue chip companies in the UK and Europe including Vauxhall Motors, BAE Systems, Rolls Royce and many others.





# Mechanical and Power Plant Systems Engineering

BEng/BEng (Hons)

**UCAS code:** HH32

**Entry requirements:** Higher: BBBC, A-Level: BC, ILC: BBBC.

**Essential subjects:** Maths (H) and Physics (H) or Technological Studies (H).

**FE college students:** HNC/D Mechanical Engineering or equivalent. Contact us for a copy of our College Student Supplement.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditations:** This degree will meet the requirements of the Engineering Council for registration as an incorporated engineer and accreditation will be sought from the Institute of Marine Engineering, Science and Technology leading to chartered engineer status.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Mode of study:** Full-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Principles of Programmable Systems, Electrical Principles and Circuit Theory, Professional Orientation and Practice 1, Mechanical Principles A, Engineering Materials, Mathematics 1, Mechanical Principles B, Engineering Applications. **Year 2:** Electronic Engineering 2, Engineering Design and Analysis, Mathematics 2, Engineering Computing 2, Control Engineering 2, Manufacture & Materials 2, Project Methodology. **Year 3:** Control Engineering 3, Industrial Studies, Plant and Electrical Distribution, Engineering Analysis 3, Power Electronic Systems 3, Mechanical Engineering Design. **Year 4:** Project, Engineering Analysis 4, Control Engineering 4, Engineering Design Process, Electrical Machines, Power Systems Technology.

**Career opportunities:** This unique Bachelor of Engineering degree offers the opportunity to advance your career on land or within the Merchant Navy. It has been designed to link with the Engineering Cadet Training Scheme of the Merchant Navy. However, it is also an excellent opportunity for students with a related HND to progress their education to Honours degree level and pursue the many excellent career opportunities in power stations, the oil industry and in the design and management of engineering systems.

The aim of the programme is to develop the knowledge, understanding and competencies required to carry out duties of a senior Engineer Officer in the Merchant Navy. These competencies are equally applicable to someone involved in the design, operations and maintenance of power generation and electro-mechanical systems on land.

## Why Caledonian?

Glasgow Caledonian University, in collaboration with Glasgow College of Nautical Studies, has developed this innovative programme to meet the needs and challenges of an ever growing worldwide demand for power and to cover the new educational requirements for Cadets to facilitate progress in their chosen profession at sea and on land.

This programme, which formally only allowed Year 3 entry, has now introduced entry at Years 1 and 2, which will allow students to join the programme directly from school with Highers or A-levels.

The range of skills taught can be used in a wide variety of industry sectors from power generation to power facilities of hospitals, shopping malls,

sports and entertainment complexes. There are career opportunities in public and private companies, at home, overseas and off-shore with professional status for advancement to very senior positions.

Whilst this Honours degree has a bespoke route for students progressing through this training scheme, other HND holders can enter the 3rd year of this programme with the appropriate qualifications.

Students on the Merchant Navy stream within the programme will have three periods of time at sea as part of the Engineering Cadet Training Scheme. Block and day release schemes may be available for those in employment.

“This unique Bachelor of Engineering degree offers the opportunity to advance your career on land or within the Merchant Navy.”

# Networking and Systems Support

BSc/BSc (Hons)

The rapid growth in Local Area Network and Internet usage has led to a significant shift in the overall range of skills required in providing for the successful implementation and use of Information Systems within an organisation.

There is a significant demand for well qualified and professional staff who can design, support and administer all aspects of the wide range of IT infrastructure and Information System Technologies utilised within all businesses and organisations.

## Why Caledonian?

This programme is concerned with supporting the business IT infrastructure which is required to run the software systems used to meet business and organisational needs. In terms of the main areas of IT infrastructure support, it centres on the (Specification, Design, Deployment, Management and Security of) Network Infrastructure and Client-Server system components required to meet business and organisational needs.

You will focus upon the skills necessary for the design, deployment and support of such infrastructures as they form the backbone upon which organisational computer systems depend.

Our lab facilities include a number of high specification computer suites and dedicated networking labs one of which is for the delivery of wireless networking. We also provide students with an enhanced learning experience through our Netlab implementation. Netlab provides a remote learning environment providing information technology training to allow students to access learning material and practice lab exercises from home.

An optional feature of this programme is the one-year sandwich placement. This can be undertaken after completing the BSc 3rd year. The placement consists of a year of practical paid work experience in a suitable company position. The different types of posts undertaken can be of quite a diverse range but will always relate to your area of study. Recently students have been placed with companies such as IBM, Dell Corporation, National Australia Group, The Royal Bank of Scotland, Strathclyde Police among others. Undertaking the placement can provide valuable experience to enhance your career prospects following your graduation.

**UCAS code:** G490

**Entry requirements:** Higher: BBB or BBC, A-Level: BC, ILC: BBB.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement** The programme features an optional one-year sandwich placement which can be undertaken after completion of Year 3.

**Assessment:** Assessment methods used to demonstrate achievement of learning outcomes include examinations, coursework, class tests, presentations, computer-based exercises and written reports.

**Professional accreditations:** The School of Engineering and Computing is an accredited Cisco Academy. The curriculum material from the professionally recognised Cisco Certified Network Associate qualification and Cisco Certified Network Professional is integrated into this programme. With additional work and assessments, you can work to complete these Cisco Certified qualifications.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Exchanges:** The School of Engineering and Computing has numerous European Exchange agreements through which opportunities are available to study a trimester at a partner institution.

**Mode of study:** Full-time and part-time (part-time Year 3 and 4 only).

**Contact:** School Admissions Office

E: SECcourses@gcal.ac.uk

T: +44 (0)141 331 3277

www.gcu.ac.uk/sec

**What you'll learn:** **Year 1:** Computer Systems Development, Programming, Database Development Network Technology 1, Web Development, Computer Architecture, Integrated Project 1, Business Data Analysis Techniques for Decision Making, Network Technology 2, Programming 2. **Year 2:** Visual Software Development, Networking Fundamentals, Data Communications and Transmission Systems, Systems Engineering Principles, Routing Fundamentals, Integrated Project 2. **Year 3:** Advanced Routing, IT Project Management 1, Principles of Ethical Hacking, Scalable Campus Networking, Introduction to Digital Forensics, Integrated Project 3. **Year 4:** Honours Research and Project Methods, Pervasive Grids & Services, Simulating Multimedia Networks, Honours Project, Secure Converged WAN, OCN QoS

**Career opportunities:** The networking industry is a very significant overall employer within the IT industry with around one third of the UK IT workforce employed in support roles. The industry is also becoming increasingly complex with demand in all areas of infrastructure and networking skills, with particular need for security, wireless and mobile specialist skills.



# Network and Communication Systems Engineering\*

BEng/BEng(Hons)/BSc/BSc (Hons)

**UCAS code:** BEng: GH46, BSc: G400

**Entry requirements:** BEng: Higher: BBBB, A-level: BBC, ILC: BBBC. BSc: Higher: BBB, A-level: BC, ILC: BBB.

**Essential subjects:** Maths (H) and Physics (H) or Technology Studies (H); English (S/O).

**Essential subjects:** Chemistry (H), English (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Optional one-year sandwich placement after completion of Year 3.

**Assessment:** Methods used include examinations, coursework, class tests, presentations, computer-based exercises, laboratory based demonstration and written reports.

**Professional accreditations:** Designed to meet the needs of industry and the accreditation criteria set by the Institute of Engineering and Technology (IET formerly the IEE). The course contributes to the academic registration as a practicing Chartered Engineer.

**Language option:** The programme can be combined with a language. See p125 for details.

**Summer school:** If required, Summer School is available for Mathematics. See p131 for details.

**Mode of study:** Full-time and Part-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Digital & Analogue Electronics; Intro to Programming; Intro to Computer Architecture, Intro to Network Technologies; Mechanical Principles; Engineering Materials; Applied Mathematics; Professional Practice; Electronic Product Design. **Year 2:** Electrical Principles & Circuit Theory; Software Development for Engineers; Data Communications & Transmission Systems; Digital & Programmable Systems I; Control & Instrumentation; Electronic Product Development; Professional Practice. **Year 3:** Applied Mathematics; Routing Protocols & Concepts; Signals & Electronic Systems Design; Wireless Communication Principles; Electronic Product Design III; Supply Logistics & Operations Management. Specialist options. **Year 4:** Honours Research & Project Methods; Individual Project; Digital Signal Processing; Professional Practice. Specialist options.

**Career opportunities:** Graduates find employment in a wide range of industrial sectors and motivated graduates frequently progress rapidly to positions of responsibility with high levels of remuneration. Industrial sectors such as health care, medical, instrumentation, automotive and transport, business, travel and tourism, and, interactive entertainment are exciting and growing areas of interest. Graduates also find good career prospects outside Engineering where your highly developed knowledge and skills are recognised.

Communication networks are key to the economic and social well being of an economy. A significant and growing development is the combination of electronic and computer engineering with communication systems and network engineering to create a future where the Internet will reach out into the world of everyday physical objects – the so called “Internet of Things” – an emerging trend that is set to have a profound effect on society and culture.

Previously distinct communication networks and services are today converging onto one network, thanks to the digitisation of content, and the adoption of high-speed broadband IP networks. Traditional services such as music, television, video on demand, fixed and mobile voice are increasingly delivered over IP networks. This is a global phenomenon, which presently is outstripping the ability of commercial organisations to recruit personnel equipped with the necessary blend of technical and managerial skills to initiate and manage the introduction of the new emerging technologies in networks and wireless systems.

## Why Caledonian?

This exciting new programme forms part of our new Electronic Product Design Engineering suite which has been developed to prepare you for a rewarding career in key areas of electronic and computer based product design engineering. The suite offers pathway flexibility and articulation between the BSc and BEng routes at the end of 2nd year. Each programme in the suite combines knowledge of current and exciting new technologies, the application of electronic product design engineering knowhow, the development of business management and entrepreneurship skills, and an awareness of the globalization of product development. We provide you with a learning experience that allows you the opportunity to become a well-rounded engineer, able to

exercise leadership, initiative, personal responsibility and decision making in complex and unpredictable situations. We aim to encourage your creative thinking, to develop your design visualization skills, to expand your knowledge, confidence and professional values, so that you can move into a successful career in innovative product design where electronics is the key.

Students will benefit from:

- experience of, and the opportunity to transfer to, other programmes within the Electronic Product Design Engineering suite.
- significant exposure to team based projects and problem based learning, and opportunities to develop your key soft skills.
- industrial partnerships that provide access to design-oriented case studies and projects, work experience and real world problems.
- an emphasis on market and business realities and exposure to entrepreneurship through the CISCO Entrepreneurship Institute.
- well-equipped design studios to encourage and explore design ideas and well equipped electronic laboratories giving students access to leading edge technologies.
- the award of credit to extra curricular activities that evidence engineering professionalism.

\* Those eligible for BSc entry follow the **BSc/ BSc (Hons) Computer and Communications Systems Engineering**.



# Robotic and Mechatronic Systems Engineering\*

BEng/BEng (Hons)/BSc/BSc (Hons)

Robots, whether remotely, under supervisory control, or autonomous are increasingly finding application in general surgery and healthcare, maintenance and repair, sub-sea oil and gas, military, agricultural, mining, space, and many other industries by performing the tasks that are dull, dirty, or dangerous to humans.

Industry experts suggest that the surge in innovation is just beginning and the robotics industry will be one of the fastest-growing enterprises within the next decade. The robotics industry is developing rapidly in much the same way that the computer business did 30 years ago.

## Why Caledonian?

This exciting new programme forms part of our new Electronic Product Design Engineering suite which has been developed to prepare you for a rewarding career in key areas of electronic and computer based product design engineering. The suite offers pathway flexibility and articulation between the BSc and BEng routes at the end of 2nd year. Each programme in the suite combines knowledge of current and exciting new technologies, the application of electronic product design engineering knowhow, the development of business management and entrepreneurship skills, and an awareness of the globalization of product development.

We provide you with a learning experience that allows you the opportunity to become a well-rounded engineer, able to exercise leadership, initiative, personal responsibility and decision making in complex and unpredictable situations.

We aim to encourage your creative thinking, to develop your design visualization skills, to expand your knowledge, confidence and professional values, so that you can move into a successful career in innovative product design where electronics is the key.

Students will benefit from:

- experience of, and the opportunity to transfer to, other programmes within the Electronic Product Design Engineering suite.
- significant exposure to team based projects and problem based learning, and opportunities to develop your key soft skills.
- industrial partnerships that provide access to design-oriented case studies and projects, work experience and real world problems.
- an emphasis on market and business realities and exposure to entrepreneurship through the CISCO Entrepreneurship Institute.
- well-equipped design studios to encourage and explore design ideas and well equipped electronic laboratories giving students access to leading edge technologies.
- the award of credit to extra curricular activities that evidence engineering professionalism.
- the opportunity to study management and software development specialisms (BSc)

\* Those eligible for BSc entry follow the **BSc/ BSc (Hons) Instrumentation and Robotic Systems Engineering**.

**UCAS code:** BEng: H691, BSc: H692

**Entry requirements:** Higher: BBBB, A-Level: BBC, ILC: BBBC. BSc: Higher: BBB, A-Level: BC, ILC: BBB.

**Essential subjects:** Maths (H) and Physics (H) or Technology Studies (H); English (S/O).

**Recommended Subjects:** Chemistry (H), English (H).

**FE college students:** Contact us for a copy of our College Students Supplement.

**Work placement:** Optional one-year sandwich placement after completion of Year 3

**Assessment:** Methods include examinations, coursework, class tests, presentations, computer-based exercises, laboratory based demonstration and written reports.

**Professional accreditations:** Designed to meet the needs of industry and the accreditation criteria set by the Institute of Engineering and Technology (IET formerly the IEE). The course contributes to the academic registration as a practicing Chartered Engineer.

**Language option:** The programme can be combined with a language. See p125 for details.

**Summer School:** If required, summer school is available for Mathematics. See p131 for details.

**Mode of study:** Full-time and part-time.

**Contact:** School Admissions Office  
E: SECcourses@gcal.ac.uk  
T: +44 (0)141 331 3277  
[www.gcu.ac.uk/sec](http://www.gcu.ac.uk/sec)

**What you'll learn:** **Year 1:** Digital & Analogue Electronics; Principles of Programmable Systems; Intro to Computer Architecture, Intro to Network Technologies; Mechanical Principles; Engineering Materials; Applied Mathematics; Profession Practice; Electronic Product Design. **Year 2:** Electrical Principles & Circuit Theory; Software Development for Engineers; Data Communications & Transmission Systems; Digital & Programmable Systems I; Control & Instrumentation; Electronic Product Development; Professional Practice. **Year 3:** Applied Mathematics; CAD for Robotic & Mechanical Systems; Electrical Systems; Control Engineering III; Power Electronic Systems III; Electronic Product Design III; Supply Logistics & Operations Management. Specialist options. **Year 4:** Honours Research & Project Methods; Individual Project; Modelling & Simulation of Robotic Systems; Professional Practice. Specialist options.

**Career opportunities:** Graduates find employment in a wide range of industrial sectors and motivated graduates frequently progress rapidly to positions of responsibility with high levels of remuneration. Industrial sectors such as health care, medical, instrumentation, automotive and transport, business, travel and tourism, and, interactive entertainment are exciting and growing areas of interest. Graduates also find good career prospects outside Engineering where your highly developed knowledge and skills are recognised.

**Name:** Linsey Langridge  
**Programmer:** BA Applied Graphics Technology  
**Year of Study:** 3rd

**Why did you choose your programme at Glasgow Caledonian?**

I wasn't enjoying a portfolio prep class at college and dropped out half way through, I wanted to continue my education so looked into other design courses and found that the University offered a diploma programme that taught a variety of design disciplines. This course really appealed to me because I was still unsure at that point as to what area I wished to specialize in. I have since decided to focus on graphic design for my degree.

**What are you enjoying most about life at the University?**

I have made some great friends over the last few years. When we are working in groups and also doing practical work together it is never boring, we always have a laugh with each other along with the lecturers. Uni life is much more relaxed than schools and colleges and it is up to the individual to motivate themselves. In a way I feel that this relaxed approach has made me push myself to produce better pieces of work.

**What is your best experience so far?**

Learning to push myself under pressure and making a commitment to my work, even if it means several late nights. Studying a course I am very passionate about means I always find that the work never actually feels like work, I just enjoy doing it and put all my time and effort into it.

**What advice do you have for people considering applying to university?**

Definitely come to the University and talk to the lecturers and students in person. Also ask to see some recent examples of good and bad work from all levels of study to prepare you of the standard expected. Be prepared to work under pressure and often late into the night near coursework submissions, it's worth it in the end when you pass and don't have to re sit in the summer. You can catch up on your sleep in the holidays.

**What do you think about Glasgow?**

I have always lived in the outskirts of Glasgow city centre therefore know my way about pretty well, however the city centre and surrounding area is continually changing and there is always something new to explore/visit. The night life in Glasgow is great especially on student nights where entrance and drinks are very inexpensive. Glasgow also offers a wide range of fantastic restaurants.

**What single word sums up your GCU experience so far?**

Inspirational

**What do you plan to do after you graduate/what are your career aspirations?**

I plan to further my education and do an HNC/HND in photography to combine with my graphic design knowledge. I would then like to gain some experience within the Graphic Design industry and perhaps do a post-graduate course in teaching. If I have some time somewhere along the line I would like to squeeze a little bit of travelling in.





The School of Health was established in 2009 following the merger of the School of Health and Social Care with the School of Nursing, Midwifery and Community Health and is now one of Scotland's largest providers of health care education.

Professor Frank Crossan, Dean of the School of Health

#### **State-of-the-art facilities**

With 300 staff and more than 4000 students, the school includes departments of Diagnostic Imaging, Operating Department Practice, Podiatry and Radiography; Adult Nursing and Health; Occupational Therapy, Physiotherapy and Social Work and Women's Children's and Community Health. The school's offering is enhanced by its state-of-the-art facilities, including clinical simulation laboratories, a suite of rooms to reflect the real clinical situation. The lab's innovative features include an 18-bedded ward environment, an intensive care room, a nurse's station, an interactive suite and a control room.

#### **Professional accreditation**

Where possible, all programmes offered by the school are approved by the appropriate regulatory and professional bodies, including the Health Professions Council, Nursing and Midwifery Council, Scottish Social Services Council, College of Occupational Therapists, Chartered Society of Physiotherapy, Society and College of Radiographers and Society of Chiropractors and Podiatrists.

#### **Disclosure Scotland**

Disclosure Scotland. All students entering these programmes require to undergo an enhanced criminal disclosure procedure with Disclosure Scotland. The nature of enhanced disclosure means that all previous convictions etc will be identified by this process regardless of when they occurred.

#### **Health Screening**

Applicants to certain programmes must successfully pass a general screening of their health. Hepatitis B screening and immunisation is also offered to all applicants and is mandatory for midwifery.

#### **Religious dress**

This is permitted but is limited to a headscarf and covering of the arms in accordance with Health Board policy.

#### **Professional and external partnerships**

In addition to teaching, the school contributes to the University's world-leading research and supports collaborative education in nursing, midwifery, social work and allied health professions. The University's research in allied health is ranked top in Scotland and in the UK top 10. The quality of the Schools teaching and research is recognised globally through its work as a collaborating

centre of the World Health Organisation (WHO) and as a former host of the Secretariat of the Global network for WHO collaborating centres. It recently launched the Scottish Centre for Evidence Based Care of Older People, Europe's first Joanna Briggs Institute Collaborating Centre for Aged Care.

# School of Health







## Student profile

Martha Baker

**Name:** Martha Baker

**Programme:** BA (Hons) Nursing Studies

**Year of Study:** 3rd

### Why did you choose your programme at GCU?

I felt it offered the best Nursing Programme in Glasgow, with the best facilities.

### What are you enjoying most about life at the University?

The freedom to learn and experience life.

### What are you enjoying most about your programme?

The programme enables students to learn in a variety of different ways. It has structures in place to support all of the students on an individual basis. It offers a very good balance of placement and university time and both are integrated into the curriculum so that all experiences are relevant to the course as a whole.

### Do you belong to any university clubs or societies?

I belong to the Sign 4 Life classes, which teach level one sign language. It is a great life experience.

### What is your best experience so far?

Making friends with great people.

### What advice do you have for people considering applying to university?

Think long term, ask yourself these questions; what opportunities will the course provide? How will the course bring me closer to my dream job? And more importantly, am I interested enough in the subject to learn about it for three years?

### What do you think about Glasgow as a place to study?

I love Glasgow. As an Australian, after spending three years here I feel completely at home.

### What do you plan to do after you graduate?

I plan on nursing for a while and eventually doing a shortened midwifery course. I am so grateful for the opportunity to have such a flexible career in front of me.



**UCAS code:** B720 (Bachelor of Midwifery)

**Entry requirements:** Higher: BBCC, ILC: BBCC

**Essential subjects:** English and a science subject at Higher level plus Maths or another numeracy subject at Standard Grade 3 or above.

**Recommended subjects:** Higher Biology or Human Biology, Psychology or Sociology.

**FE college students** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Appropriate experience providing insight into midwifery. Ideally applicants will have talked to midwives and possibly arranged shadowing, work or voluntary experience e.g. care situations, care agencies dealing with complex social issues. Personal research and a portfolio demonstrating awareness of current midwifery issues is recommended and likely to be discussed at interview.

**Application:** Applications should be made through UCAS. Please note that the midwifery programme is always over subscribed. Many applications will be unsuccessful and applicants will be informed of this as soon as possible. Offers of places are made following an interview period and health screening. Not all applicants interviewed will be offered a place.

**Clinical placements:** Over 50% of the midwifery programme involves placement experience, in a variety of clinical settings.

**Assessment:** Essays, exams and seminar presentations are used to assess theory. Simulated clinical situations and assessment of clinical practice are used to assess clinical competence.

**Professional accreditations:** On completion of the programme, graduates are eligible for registration with the Nursing and Midwifery Council.

**Number of places:** 20.

**Mode of study:** Full-time.

**Contact:** Louise Speirs or Cathy Dickson  
E: [Midwifery@gcal.ac.uk](mailto:Midwifery@gcal.ac.uk)  
T: +44 (0)141 8646 or 8325  
[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**What you'll learn:** **Year 1:** Normal Childbearing, Human Biology, Psychology and Sociology. **Year 2:** Medical Disorders, Post-natal Care, Wider Management Issues **Year 3:** Complications of Childbearing, The Sick Neonate, Research Methods plus consolidation of practice. Clinical placements occur throughout. Students are in university and on clinical practice for a significant part of every summer.

**Career opportunities:** A midwife's career path can take a number of routes. Throughout your career you will be expected to continue your professional studies. Opportunities also exist in teaching and research, in the UK and overseas. For students who possess a degree the option of exiting with a PgD Midwifery Studies is available. This qualification contributes to the completion of a masters degree in the future.

A midwife is responsible for the care and advice offered to pregnant women and their families during a very challenging time. Midwives work with parents throughout pregnancy, birth and the early days of parenthood.

The role of a midwife is one which is very rewarding and immensely responsible. You will need to be self-motivated, practical and good with people, whilst having an inquisitive mind and strong character.

#### Why Caledonian?

Glasgow Caledonian University has an excellent reputation in teaching midwifery and has been contracted by the NHS in Scotland to educate midwives for many years. The programme is very popular and is highly subscribed to annually.

Our graduates are sensitive, caring, flexible professionals who provide care using evidence based practice to promote a salutogenic approach to childbearing. This woman centred programme challenges our students to be accountable to the needs of the mother throughout the childbearing experience. Studies in midwifery are developed with a range of other relevant topic areas including research, which provides the basis for an inquiry based curriculum grounded in reality.

The state-of-the-art facilities in our Govan Mbeki Building will enhance your studies through the use of modern teaching practices, supported by the most recent technology, meaning you will be well-equipped to start work as a midwife upon completing your studies.

Clinical placements are essential to your study of midwifery. In each of the three years, you will combine your studies with placements in both hospitals and community settings. You will work the same hours as staff, so a commitment to flexible working is required.

A mentor will guide and assess you throughout each of your placements. Successful completion of placements is required for registration with the Nursing and Midwifery Council. Students are expected to travel to placements and work the same shift patterns as the midwives who will mentor them, including 12 hour shifts and night shifts.





Many rewarding career opportunities exist for nurses who are committed to understanding and caring for people who may be vulnerable due to physical, social or psychological distress. As a nurse, you will care for others in a sensitive and considerate manner, applying your skills and learning to help the individual in each care situation.

This programme is supported by a Scottish government bursary scheme. See [www.saas.gov.uk](http://www.saas.gov.uk) or p118.

#### Why Caledonian?

Situated in Scotland's largest city, Glasgow Caledonian offers unique access to a very wide range of placement opportunities and specialist expertise in your chosen branch of nursing. Very few other universities can offer you the opportunity to choose from all of the four main branches of nursing, these being adult, child, learning disability and mental health.

We also enjoy the best figures in Scotland for student referral and completion.

The first year of the programme is common to all branches. You will firstly gain core nursing skills and apply these fundamental principles throughout each module, which offers both theoretical and clinical experience in hospitals and the community. This foundation leads on to focus on your chosen area in second and third year. On completion of the programme, you will be qualified to work as a registered nurse in your chosen field of practice.

“You can choose to study one of the four main branches of nursing - adult, child, learning disability or mental health nursing.”

**UCAS code:** B740 (Adult), B730 (Child), B760 (Mental Health), B761 (Learning Disability)

**Entry requirements:** (Under review) Higher: CC, A-Level: DE, ILC: CCC (Honours), UCAS: Equivalent of 2 Highers.

**Essential subjects:** English and Maths at least Standard Grade 3 Int 2 or equivalent.

**Recommended subjects:** A science subject.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** All applicants must satisfactorily pass an interview, a health screen and a criminal record check.

**Application:** Applications should be made through UCAS.

**Clinical placements:** To become a registered nurse in the UK you must spend at least 2300 hours in practice. These hours are spread over 10 placements and are arranged by us.

**Assessment:** Modular, through exams, essays and placement assessments of clinical performance against set outcomes.

**Professional accreditations:** Validated (and overseen) by the Nursing and Midwifery Council of the United Kingdom.

**Number of places:** Adult: 347, Child: 60, Mental Health: 60, Learning Disability: 30.

Note: these figures are subject to change on an annual basis. Students must specify which branch at application.

**Mode of study:** Full-time.

**Contact:** Recruitment Office

E: [nursingenquiries@gcal.ac.uk](mailto:nursingenquiries@gcal.ac.uk)

T: +44 (0)141 331 8324

[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**What you'll learn:** **Year 1:** Fundamentals of Nursing, Human Physiology, Psychology, Sociology. **Year 2:** Branch dependent nursing theories and practice. **Year 3:** Branch dependent nursing theories and practice.

**Career opportunities:** Nurses enjoy some of the most varied professional career options and choices. They can then work in settings that differ as widely as a patient's own home and an operating theatre. Once qualified, opportunities for career development or the pursuit of new goals are very flexible and many of our diplomates and graduates are exercising their skills world-wide.

**Note:** Learning disability students will have the opportunity to undertake a six month placement at Crofted Mountain Rehabilitation Centre, New Hampshire, USA, in Year 2. Learning Disability students who live geographically distant from the Glasgow area may be able to undertake Year 1 at your local university then transfer to the branch programme (Year 2 and 3) at GCU via a blended learning model with local placements in your area.

See page  
116 for entry  
requirements.

**UCAS code:** B700

**Entry requirements:** Higher: BBB/BBCC, A-Level: CC, ILC: CCCC

**Essential subjects:** English (H), science subject (H/A), English (GCSE), Mathematics (S/GCSE), Chemistry (S/GCSE) and another science (GCSE).

**Recommended subjects:** Biology (S/GCSE), Human Biology (S/GCSE).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants will be required to attend an information session in accordance with guidance set by the Nursing and Midwifery Council.

**Clinical placements:** Clinical experience is linked to theory and takes place at intervals throughout the first three years of the programme.

**Assessment:** Assessment techniques include formal examinations, essays, class tests, video and poster presentations. Your nursing skills will be assessed in the University and during clinical placement.

**Professional accreditations:** On completion of the programme, graduates are eligible for registration with the Nursing and Midwifery Council.

**Number of places:** 70.

**Mode of study:** Full-time.

**Contact:** Karen MacDonald  
E: karen.macdonald@gcal.ac.uk  
T: +44 (0) 141 331 8566  
www.gcu.ac.uk/soh

**What you'll learn:** **Year 1:** Intro to Nursing Studies, Clinical Placement modules include Life Sciences, Psychology and an Inter-Professional module. **Year 2:** Nursing Studies, Clinical Placement, subjects in Life Sciences, Sociology and Research Methods. **Year 3:** Nursing Studies, Clinical Placement, subjects including Nursing Theory, Optional Nursing module. **Year 4:** Honours level dissertation, Nursing Studies, Optional Nursing, Social Sciences and Life Sciences modules.

**Career opportunities:** Graduate opportunities include working in hospitals, residential settings and the wider community. Graduates can also expect to be proactive in delivering the future health agenda of Scotland and the UK. Lifelong learning is integral to the profession and postgraduate study will facilitate progression to leadership roles. Previous graduates from this programme include nurse consultants, senior managers and academic leaders.

**Note:** Some choice of study in Years 3 and 4 allows students to access particular areas of interest. Certain categories of criminal record may preclude you from employment as a nurse. Nursing is exempt from section 4 (2) of the Rehabilitation of Offenders Act 1974. This means that convictions or cautions are never considered as 'spent'. You should seek advice before applying. All successful applicants will be subject to a search by Disclosure Scotland.

Study nursing on an established Honours degree programme which has a proven track record of preparing graduates for employment in a variety of healthcare settings.

Nursing requires professional commitment from people who enjoy working in a caring environment and who are determined that people in vulnerable situations shall receive the best care and treatment available. As a graduate nurse you will be able to manage the challenges of an exciting, fast moving career.

#### Why Caledonian?

A variety of educational approaches, including problem-based learning and the use of clinical simulation in a state-of-the-art facility, are utilised in the teaching of nursing. Students share their learning experience with other disciplines such as life sciences, sociology and psychology in the university. A recent innovation has seen the development of interprofessional learning with other healthcare professions. The

programme provides a syllabus, which is student centred, with the theory and practice of nursing at its heart. The focus of the programme is educating students on the adult branch. In order to conform to NMC requirements you will spend the first 12 months in a common foundation programme gaining essential nursing skills.

Clinical experience will also allow you to develop interpersonal and practical skills. Students will gain experience both in hospital and community nursing. During your placements, a mentor will guide you throughout your learning in all clinical settings. In recent years, the University has continued to develop links abroad, with students enjoying the option of clinical experience in countries such as Sweden, Australia and Canada.



# Occupational Therapy

BSc (Hons)

Occupational Therapists work with people who have physical, emotional or social problems and use a variety of activities to help them reach their maximum level of independence and take control of their lives.

Graduates of this very rewarding degree are eligible for membership of the College of Occupational Therapists and also to apply for registration with the Health Professions Council. There are diverse career opportunities available for graduates who will be creative in their thinking, caring in their attitude to their clients and yet disciplined enough to cope with the rigours of such a demanding and satisfying job.

### Why Caledonian?

At Glasgow Caledonian, you will learn how to enable people to live more productive and enjoyable lives. This means assessing ways in which people spend their time, from personal care (getting dressed, washing, shopping), to being productive (paid or unpaid work, housework or education) and use of leisure time (sports, hobbies and social life).

As a student you will learn how to help people adjust and cope after they have experienced activity limitation due to illness, injury or environmental restrictions. You will develop skills in activity analysis, assessing ways in which people spend their time in meaningful activity to achieve a sense of wellbeing.

As part of your studies, you will undertake practice education working with people of all ages with mental, physical and social conditions to improve their everyday function and prevent disability. Your work can range from adapting housing, so people can be self sufficient, to teaching those with health conditions different coping strategies and helping children with learning disabilities participate in social activities.

You will learn the core elements of occupational performance, learn to identify client need, develop intervention strategies to enable clients and learn about undertaking research.

**UCAS code:** B930

**Entry requirements:** (Under review) Higher: BBCC, A-Level: CC, ILC: BBCCCC Other: HNC Health Care, Social Care, Social Care, Social Science and/or any other HNC level study at a recognised FE College. HNC Occupational Therapy Support at Langside College articulates with Year 2 and may allow for direct entry to Year 2 of BSc (Hons) programme.

**Essential subjects:** English (H) or equivalent. English plus Mathematics or numeracy subject at (S/GCSE).

**Recommended subjects:** Biology or Human Biology (H).

**FE college students** Contact us for a copy of our College Student Supplement.

**Practice placements:** You will undertake five blocks of practice education. Level 1: 2 weeks, Level 2: 9 weeks (p/t), Level 3: 5 weeks role emerging (1 week f/t, 4 weeks p/t), Level 3: 9 weeks (f/t), Level 4: 20 days.

**Professional accreditations:** This programme is accredited by the UK College of Occupational Therapists (COT), World Federation of Occupational Therapists (WFOT) and is approved by the UK Health Professions Council (HPC).

**Summer School:** Summer Schools are available, if required. Please contact us or see p131 for more details.

**Exchanges:** Student exchange opportunities may be available with this programme. Please contact us or see p124 for more details.

**Number of places:** 70-75.

**Mode of study:** Full-time but Year 4 can be completed by part-time study.

**Contact:** Admissions Team  
E: [otadmissions@gcal.ac.uk](mailto:otadmissions@gcal.ac.uk)  
T: +44 (0)141 331 8391  
[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**What you'll learn:** **Year 1:** Studies include: Practice Education, Foundations of Practice in Health and Social Care and Occupational Therapy, Intro to Psychology, Sociology and Physiology, Occupational Science. **Year 2:** Practice Education, Theories and Approaches in Occupational Therapy, Research Methods, Promoting Health and Wellbeing and Inclusive Environments for Occupational Performance. **Year 3:** Practice Education, Critical Perspectives on Creativity, Reasoning, Decision Making and Ethics and Investigating Effective Practice. **Year 4:** Social Enterprise Placement, Organisational Policy and Practice, Honours Project plus 2 modules with a focus on Ageing and Wellbeing, Psychosocial Interventions or Work Practice.

**Career opportunities:** Diverse career opportunities exist in hospitals, clinics and a wide variety of community settings in the UK and abroad. Graduates of this programme have been innovative in developing career opportunities with voluntary, public and private sector employers.





**UCAS code:** B990

**Entry requirements:** Two Highers at C or above and five Standard Grades at 3 or equivalent.

**Essential subjects:** English (S).

**Recommended subjects:** A science subject at Standard Grade 3 or above.

**Clinical placements:** ODPs must be able to apply academic theory to clinical practice and the variety and duration of clinical placements on offer within the programme is designed to achieve this. The programme has a balance of university based work and clinical placements within a wide range of perioperative areas. These include caring for patients of differing ages, levels of dependency and with a diverse range of care needs. During placements you will be supported by a specially prepared and trained mentor to ensure you have a positive learning experience and achieve the practical skills you will require.

**Number of places:** As determined by individual health boards.

**Mode of study:** Full-time over a 45 week extended academic year.

**Contact:** Fiona Ritchie  
E: [fiona.ritchie@gcal.ac.uk](mailto:fiona.ritchie@gcal.ac.uk)  
T: +44 (0) 141 331 3534  
[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**What you'll learn:** **Year 1:** Introduction to the Perioperative Environment, Maintaining Homeostasis in the Perioperative Patient, Introduction to Anaesthetic Practice and Principles of Surgical Practice. **Year 2:** Care of the Patient with Complex/Specialised Needs, Evaluating Research and Clinical Practice, Care of the Patient in the Immediate Post-Operative Period and Consolidating Perioperative Practice.

**Career opportunities:** There are many exciting job opportunities available to ODPs within today's Health service. ODPs are highly sought after in today's job market and healthcare providers are keen to employ graduates of this programme.

**Note:** Students must achieve Occupational Health and Enhanced Disclosure clearance prior to commencement on the programme.

**Note:** Whilst on the programme, students are supported by a bursary which is funded by individual Health Boards. The funding Health Board normally expects successful students to take advantage of an employment contract for at least two years following completion of the programme.

The Diploma of Higher Education in Operating Department Practice is the first of its kind in Scotland and aims to provide you with an opportunity to develop the knowledge and skills necessary to provide competent perioperative patient care. It will take you to the level which will enable you to apply for registration with the Health Professions Council.

#### Why Caledonian?

Glasgow Caledonian has one of the largest and most comprehensive Schools of Health in the UK. Operating Department Practitioner (ODPs) are a vital part of the multi-disciplinary team and work alongside medical and nursing staff to provide care throughout the patient's journey within the operating department. The three main areas in which ODPs work are anaesthetics, scrub/circulating and recovery. We give you experience working in the area of anaesthetics, which involves providing skilled assistance to the anaesthetist, monitoring patients' vital signs, reception of the patient into the theatre area, the preparation and checking of anaesthetic and monitoring equipment and preparation and administration of drugs.

Our programme introduces you to scrub/circulating practitioner duties. These include the preparation and checking of surgical equipment, preparation and maintenance of the sterile field (including surgical instrumentation), taking part in the checking procedures which ensure all items used have been accounted for and anticipating the needs of the operating team. The third area of ODP work you will be trained in is recovery practice, caring for the patient as they recover from the effects of anaesthesia and surgery.



# Physiotherapy

BSc (Hons)

Physiotherapy is a career which challenges caring, self-motivated people to achieve their potential by learning and working with a number of different groups. At Glasgow Caledonian, we prepare students to work in all branches of the discipline, but particularly to work with patients in the health service and in the community.

As a highly skilled health care professional, you will use physical means to prevent and treat injury and the results of disease and to promote healthy lifestyles. This tremendously rewarding career will bring you into daily contact with people and requires you to be physically active, have a genuine interest in health and science whilst exhibiting care, patience and professionalism.

Completion of this degree leads to eligibility to apply for registration with the Health Professions Council and membership of the Chartered Society of Physiotherapy.

## Why Caledonian?

Our graduates are some of the most sought after in the country. At Glasgow Caledonian, we combine learning in state-of-the-art facilities with excellent placement opportunities. This learning is underpinned from the start with interprofessional education. Every member of our teaching staff is a chartered physiotherapist and will challenge you to actively participate in

your learning. This is supported by a strong research culture within the school. Our curriculum is designed to meet current and future health needs of people in this country and overseas and provides opportunities for students to study online and to choose options and elective placements.

As a student physiotherapist, you will cover a wide range of clinical subjects and combine this academic learning with practice placements. During this you will learn to assist the patient's recovery process by developing and restoring the functions of the body as fully as possible.

Your studies, where possible, take place in small groups and will develop your understanding of clinical science and rehabilitation subjects such as human physiology, manual therapy, neurorehabilitation and cardiovascular and respiratory care. As your understanding and experience of physiotherapy develops, you will be encouraged to work more independently.



**UCAS code:** B160

**Entry requirements:** Higher: BBBBC, A-Level: BBB, ILC: BBBB (B2 only). 300 UCAS points over one exam sitting or 400 over two.

**Essential subjects:** English (H/GCSE or Irish Leaving Cert (Hons)) plus three science subjects, at least two of which should be at Higher/Irish Leaving Cert (Hons) or one at A-level.

**Recommended subjects:** Biology and Physics.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Clinical placements:** One third of this degree is made up of clinical placements which take place in Years 2, 3 and 4. You will work as part of a team alongside other health professionals, under the tuition of practising physiotherapists. Placements can take place in hospital physiotherapy departments, intensive care units, cardiac rehabilitation units and in the community. You will treat physically impaired patients or those in recovery from a variety of illnesses.

**Professional accreditations:** This programme is accredited by the UK Chartered Society of Physiotherapy (CSP) and the UK Health Professions Council (HPC).

**Summer School:** Summer Schools are available, however cannot be used to gain extra qualification for entry. Please contact us or see p131 for more details.

**Exchanges:** Student exchange opportunities may be available with this programme. Please contact us or see p124 for more details.

**Number of places:** 78.

**Mode of study:** Full-time or part time. Contact the school for further information.

**Contact:** Admissions Team  
E: [physio.admissions@gcal.ac.uk](mailto:physio.admissions@gcal.ac.uk)  
T: +44 (0)141 331 3638  
[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**What you'll learn:** **Year 1:** You will study subjects such as Applied Anatomy for Physiotherapists, Movement and Exercise, Fundamentals of Human Physiology, People, Society and Practice and Foundations for Practice in Care. **Year 2:** During Years 2- 4, you will participate in Practice Education placements. You will also cover specialist subjects such as Neuromusculoskeletal Management, Cardiovascular and Pulmonary Care, Neuro-rehabilitation, Health Perspectives and Research Methods. **Year 3:** Practice Education, Lifespan Activity, Fitness and Health, Vocational Rehabilitation, Investigating Effective Practice and an Optional Module. **Year 4:** Practice Education, Organisations, Policy and Professional Practice and an Honours project.

**Career opportunities:** Chartered Physiotherapists may work in NHS hospital physiotherapy departments, health centres and in private practice. Graduates have also gone on to pursue research activities or work in the local community or in sports medicine.

See page  
114 for how to  
apply.

**UCAS code:** B985

**Entry requirements:** Higher: BBCC, A-Level: CC, ILC: BBCCCC

**Essential subjects:** English (S) plus two science subjects.

**Recommended subjects:** One science subject (H/A).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Clinical placements:** Clinical education and practical experience will take place in the University's Podiatry Department, based within the Southern General Hospital. This well-equipped facility incorporates a day theatre complex for nail and skin surgical techniques and for minor orthopaedic procedures. Placements will also be carried out in outpatient clinics throughout the hospital including Rheumatology, Diabetology and Orthopaedics. You will also take part in weekly placements in community podiatry clinics and paediatric clinics at Yorkhill Children's Hospital and will have the opportunity to spend a one week placement in an NHS Trust, accompanying a practising podiatrist.

**Professional accreditations:** This programme is accredited by the UK Society of Chiropractors and Podiatrists and the UK Health Professions Council (HPC).

**Summer School:** Summer Schools are available, if required. Please contact us or see p131 for more details.

**Exchanges:** Student exchange opportunities are available during Year 3 of this programme. Please contact us or see p124 for more details.

**Number of places:** 45.

**Mode of study:** Full-time. A part time option may be available (subject to approval). Please contact the school for further information.

**Contact:** Admissions Team  
E: podadmissions@gcal.ac.uk  
T: +44 (0) 141 331 8141  
www.gcu.ac.uk/soh

**What you'll learn:** **Year 1:** Clinical Placement, Podiatry, Research Methods, Anatomy, Physiology and Inter-professional Studies in Health and Social Care. **Year 2:** Studies include Medicine, Sociology and Principles of Surgery, Clinical Placements, Core Podiatry subjects. **Year 3:** You will build upon previous studies and continue your placement. Additional subjects include Pharmacology and Health Promotion. **Year 4:** Honours Dissertation combined with a large amount of clinical work. Additional subjects include Marketing and Quality.

**Career opportunities:** Students who graduate with this degree enjoy an impressive employment rate. Graduates, who are eligible to apply for registration, work in the NHS, run their own businesses, work in high street retail outlets, sports medicine centres, in health promotion, research and some choose to undertake further study to become podiatric surgeons.

As a podiatrist, you are an independent practitioner who diagnoses and treats disorders of the foot and lower limb. However, the scope of your work is much wider as your career can flourish in both the NHS and private sectors.

Podiatry is a rewarding career suited to a caring person who is interested in working as a specialist with the right to diagnose foot and lower limb disorders. Career pathways can include work in hospitals, primary care trusts, private practices, high street retail outlets and podiatry in sports injury centres.

Completion of this degree leads to eligibility to apply for registration with the Health Professions Council.

#### Why Caledonian?

Learning takes place in a variety of settings including our Department of Podiatry in the Southern General Hospital, Glasgow, where our students work with over 20,000 patients per annum referred to the clinic by GPs and podiatrists across the country.

We will develop your communication and diagnostic skills to make you an Independent Practitioner, by giving you clinical work with real patients from Year 2 of the degree.

With control over your patient's care, your supervised work in the clinic will bring out new skills in dealing with patients and administering treatment under the direction of our experienced lecturing staff. You will administer local anaesthetics and carry out minor surgical procedures.

Beyond this you will study information technology, biomechanics, 'high risk' patient management, pharmacology and marketing.

Preventative health care is also central to your studies, with training in the manufacture of specialist insoles and supports.

“Podiatry is a rewarding career which can flourish in both the NHS and private sectors.”



# Radiography (Diagnostic Imaging)

BSc (Hons)

In choosing to study Diagnostic Imaging you are choosing a career as a diagnostic radiographer, one of the two radiography professions.

Diagnostic radiographers are highly skilled healthcare professionals that produce and interpret images to assist in the diagnosis and evaluation of injuries and disease. Within a hospital imaging department diagnostic radiographers work with sophisticated equipment in a wide variety of imaging modalities, including conventional radiography, computerised tomography (CT), magnetic resonance imaging (MRI) and ultrasound.

They also provide imaging services in many other areas, including accident and emergency, operating theatres, wards and clinics.

Diagnostic radiography is a dynamic and advancing profession, allowing opportunities for advanced practice and consultant level roles and teaching through further training and postgraduate qualifications. Good communication skills are essential for diagnostic radiographers, in addition to the ability to adapt to new technology throughout their career.

Completion of an Honours degree in Diagnostic Imaging leads to eligibility to apply for registration with the Health Professions Council, membership of

the Society of Radiographers and eligibility to work in the NHS and private practice.

## Why Caledonian?

Within the University, we have a dedicated X-ray suite and digital image viewing equipment. This houses a full-body anthropomorphic phantom designed with body parts, embedded in anatomically accurate, tissue-equivalent material which acts as an ideal substitute for patients. This provides the students with the opportunity to apply/practice their radiographic skills but at the same time eliminates unnecessary radiation exposure to human subjects. The teaching hospitals used for practice placements ensure students have access to a wide range of imaging modalities, including state-of-the-art imaging equipment and viewing systems. Visiting a diagnostic imaging department and a radiotherapy department is compulsory for applicants prior to being offered a place, so that applicants understand the different role each radiographer plays. Applicants must choose their preferred discipline before entering the programme.



**UCAS code:** B821

**Entry requirements:** Higher: BBCC, A-Level: BCC, ILC: BBBB at Higher Level

**Essential subjects:** English (H); plus 2 from Higher in Physics, Chemistry, Mathematics or Biology with preference given to Higher Physics. If Physics or Mathematics is not studied to Higher Grade then the candidate must offer these subjects to Standard Grade (2 or above) or Intermediate 2 (C or above).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Practice placement:** In each year of the four years, you will participate in practice placements. Students spend approximately 50% of their time in practice placement.

**Professional accreditations:** This programme is accredited by the UK College of Radiographers (COR) and the UK Health Professions Council (HPC).

**Summer School:** Summer Schools are available, if required. Please contact us or see p131 for more details.

**Exchanges:** Student exchange opportunities may be available with this programme. Please contact us or see p124 for more details.

**Number of places:** 45.

**Mode of study:** Full-time.

**Contact:** Admissions Team  
E: radadmissions@gcal.ac.uk  
T: +44 (0)141 331 8531  
www.gcu.ac.uk/soh

**What you'll learn:** The degree runs over four years combining academic and practice based learning. Academic subjects include professional modules where you will learn about imaging techniques used both for diagnosis and therapy, related anatomy, image interpretation and professional practice. Modules incorporating psychology, sociology and research methods form inter-professional learning within the School of Health.

**Career opportunities:** There is currently a demand for diagnostic radiographers within the NHS and opportunities exist for them to undertake research. Promotion opportunities exist within the grading structure.

See page  
118 for finding  
information.

**UCAS code:** B822

**Entry requirements:** Higher: BBCC, A-Level: BCC, ILC: BBBB at Higher Level

**Essential subjects:** English (H); plus 2 from Higher in Biology, Chemistry, Mathematics or Physics with preference given to Higher Physics. If Physics or Mathematics is not studied to Higher Grade then the candidate must offer these subjects to Standard Grade (2 or above) or Intermediate 2 (C or above).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Practice Placements:** In each year of the four years, you will participate in oncology practice placements at oncology centres throughout Scotland. Students spend approximately 50% of their time in oncology practice placement.

**Number of places:** 20. Students must be 17.5 years upon commencement of the programme.

**Mode of study:** Full-time.

**Contact:** Radiography Admissions

E: radadmissions@gcal.ac.uk

T: +44 (0) 141 331 8153

www.gcu.ac.uk/soh

**What you'll learn:** **Year 1:** Fundamentals of Professional Practice; Introduction to Radiotherapy and Oncology; Applications of Radiotherapy Practice/Practice Education; Introductory Psychology and Sociology for Health and Social Care Practitioners; Foundations for Practice in Health and Social Care; Fundamentals of Human Physiology. **Year 2:** Imaging in Oncology; Integrated Radiotherapy and Oncology Studies 1; Radiotherapy Physics and Equipment; Practice Education; Research in Health and Social Care Practice [online]. **Year 3:** Radiotherapy Treatment Planning and Technology; Integrated Radiotherapy and Oncology Studies 2; Practice Education; Integrated Radiotherapy and Oncology Studies 3; Investigating Effective Practice [online]. **Year 4:** Practice Education; Developments in Radiotherapy and Oncology; Organisations, Policy and Professional Practice; Honours Project

**Career opportunities:** There is currently a demand for therapy radiographers within the NHS and opportunities exist for them to undertake research. Promotion opportunities exist within the grading structure.

## In choosing to study Radiotherapy and Oncology you are choosing a career as a therapy radiographer, one of the two radiography professions.

Therapy radiographers are highly skilled professionals who work as part of a large healthcare team and have an essential role in both the planning and treatment of patients with cancer. They are caring healthcare professionals involved in making decisions about patient management whilst providing care and support to patients and families throughout radiotherapy treatment. Their role includes pre-treatment support; radiotherapy treatment planning using CT, MRI and PET imaging; pre treatment verification; delivering and evaluating treatment; management of radiotherapy side effects and post-treatment follow-up and support.

Good communication skills are essential for therapy radiographers, in addition to the ability to adapt to new technology throughout their career.

Completion of an honours degree in Radiotherapy and Oncology leads to eligibility to apply for registration with the Health Professions Council, membership of the Society of Radiographers and eligibility to work in the NHS and private practice.

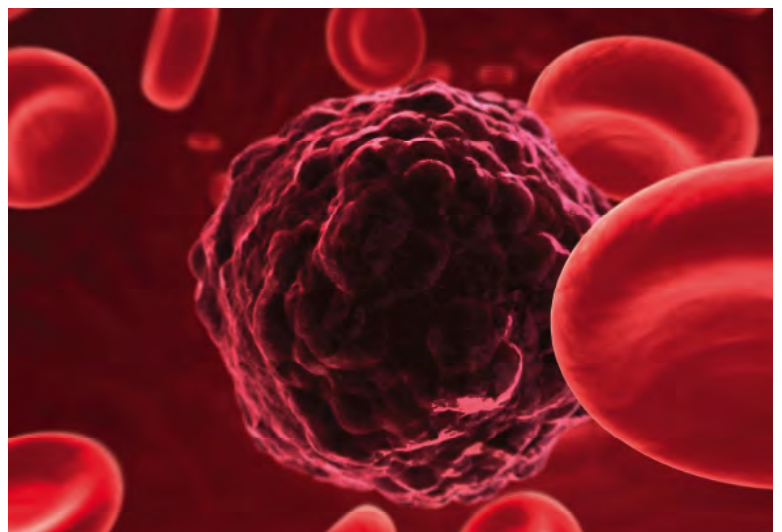
Therapy radiographers who have undertaken post graduate training may also undertake advanced practice and consultant level radiographer roles, or enter higher education.

### Why Caledonian?

Within the University we have a state-of-the-art radiotherapy planning suite and the teaching hospitals used for practice placements have the most up-to-date imaging and treatment equipment.

Visiting a radiotherapy centre and a diagnostic imaging department is compulsory for applicants prior to being offered a place, so that applicants understand the different role each radiographer plays and must choose their preferred discipline before entering the programme. A therapy radiographer is, currently, the only healthcare professional trained specifically in the treatment of cancer.

The Division of Radiography is proud of the personal support and encouragement it gives to all of its students via its open-door policy.



\*previously BSc (Hons) Radiation Oncology Science

# Social Work

BA (Hons)

## Social workers work across the entire community with children, young people, adults and older people who need support or assistance.

This could include working to support parents in effectively parenting in difficult social and economic circumstances, assisting young adults to manage the process of living independently, providing services to people with mental health problems, physical illness, people with disabilities or older people who need some support to maintain their independence.

### Why Caledonian?

This four year honours degree is an exciting and challenging programme and will be attractive to a wide range of applicants.

School leavers and mature applicants are encouraged to apply for this programme where they are in possession of appropriate entry qualifications and relevant experience. In line with university policies, there will be a general exit award at each level of the programme but a social work qualification will only be granted to those who successfully complete the full four years of the BA(Hons) Social Work programme.

### Points to consider before applying

- Social work is an accountable professional activity which enables individuals, families and groups to identify personal, social and environmental difficulties adversely affecting them. Social work seeks to promote social welfare and has responsibility to protect the vulnerable and exercise authority under statute.

- Candidates are expected to show a strong motivation to pursue a career in social work, to possess personal qualities such as empathy, humour and perceptiveness, to demonstrate non-discriminatory attitudes and to have a realistic appreciation of the demands of social work practice.
- Candidates are normally expected to have had experience which is relevant to social work and to supply an appropriate reference. It is difficult to be precise about the relevant experience as the potential range is vast. Some examples will be voluntary work within the community, citizenship projects within school or paid employment within the statutory or voluntary sector.
- Candidates need to provide a supporting statement in their application form that outlines their relevant experience, motivation to become a social worker, personal qualities and their understanding of social work.
- Candidates must declare all criminal convictions. Candidates being considered for the programme with criminal convictions will be asked to attend an interview. All candidates must be registered with the Scottish Social Services Council before they can join the programme.
- Advanced Standing Entry to Year 2 and 3 will normally be considered for a small number of students where academic equivalence can be demonstrated and places are available. Applicants should provide good academic and work based references and a strong personal statement. An additional written statement and interview may be required

**UCAS code:** L500

**Entry requirements:** Higher: BBCC, A-Level: CC, ILC: BBCCCC  
Other: HNC in a relevant area (eg. Social care, Social Sciences, Child Care and Education, Counselling); accredited university access qualification (Humanities/Social Care/Social Sciences); relevant Open University modules Level 1 plus experience relevant to social work and two references.

**Essential subjects:** English (H) & Maths (S grade 2 or equivalent).

**Recommended subject:** Modern Studies (H).

**Additional requirements for entry:** Candidates must provide a supporting statement in their application form outlining their relevant experience, motivation to become a social worker, personal qualities and understanding of social work.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Practice placement:** Students will undertake a number of practice placements during their programme of study. Practice placements are supervised by an accredited practice teacher.

**Assessment:** Written assignments, practice portfolios and group presentations.

**Professional accreditation:** Programme is accredited by the Scottish Social Services Council (SSSC) and all students must be registered with the SSSC.

**Summer School:** If required, Summer School is available for Mathematics. Please see p131 for more details.

**Exchanges:** Student exchange opportunities may be available with this programme. Please contact us or see p125 for more details.

**Number of places:** 45.

**Mode of study:** Full-time. A part time option is available through employer sponsorship.

**Contact:** Social Work Admissions

E: swadmissions@gcal.ac.uk

T: +44 (0)141 331 3843

www.gcu.ac.uk/soh

**What you'll learn:** **Year 1:** Foundations for Practice in Health and Social Care, Introductory Psychology and Sociology for Health & Social Care Practitioners, Skills, Technology and Social Work Understanding Social Work, Social Justice, Values and Ethics, Social Policy. **Year 2:** Research in Health and Social Care Practice, Social Work and Human Development, Social Work Theory, Social Work Law: Policy and Process, Social Work Skills, Risk and Protection. **Year 3:** Investigating Effective Practice, Supervised Direct Practice, Social Work Law and Practice, Social Work Process and Practice, Partnership, Power and Practice. **Year 4:** Organisations, Policy and Professional Practice, Honours Project, Supervised Direct Practice 2.

**Career opportunities:** Graduates are employed in a wide variety of settings including local authority social work and social services departments, hospitals, prisons, residential units and within the voluntary sector.



**Name:** Rachel Chung  
**Programme:** BSc (Hons) Podiatry  
**Year of Study:** 4th

**Why did you choose your programme at GCU?**

I loved the modernity of the campus and the central location is great as it's so close to the main bus and train stations. There are only two universities in Scotland offering a degree in Podiatry, and GCU stood out for me as the tutors are highly respected and recognised within the field of Podiatry in the UK.

**What are you enjoying most about life at the university?**

It is far more relaxed than being at school, and everyone gets on so well. I have made some really close friends and I'm meeting new people all the time through clinical placements or even just through studying in the library.

**What are you enjoying most about your programme?**

I'm thoroughly enjoying the clinical placements. I think it really helps to prepare us as we deal with a large variety of different conditions and illnesses. The clinical tutors are very kind and patient and they are always making sure our skills are being used as much as possible.

**What is your best experience so far?**

It would definitely be living in the student halls of residence in my first year! It was a great way to make new friends fast as everyone was in the same boat.

**What advice do you have for people considering applying to university?**

Go along to the Open Days as they provide a lot of information about what the university has to offer. This will help you make the decision if the university is right for you.

**What single word sums up your GCU experience so far?**

Unforgettable

**Any other memorable experiences?**

I was lucky to have the chance of going to Hong Kong for a few weeks to experience what Podiatry is like there. One of the girls was a graduate from GCU and she now lives and works there full time. It was a great experience and has made me consider the possibility of working abroad.

**What do you plan to do after you graduate?**

I hope to work in the UK first to gain more experience, but I would eventually like to work abroad for a while. I think I will always enjoy the practical side of the job as I like to be hands on and I find it satisfying to actually see the difference I'm making to someone's life!



# Post-registration undergraduate programmes

within the School of Health

The School of Health offers a variety of undergraduate programmes for qualified nurses and midwives. These programmes are taught on a full or part-time basis and many lead to eligibility for qualifications that are recordable with the Nursing and Midwifery Council.

BSc/BSc (Hons)

## Advancing Practice in Primary Care

Study of modules associated with this multi-professional programme will enable appropriately qualified Primary Health Care professionals to acquire the knowledge skills and attributes associated with undertaking advanced practice roles to underpin safe and effective practice. The programme involves both academic and practice components. The programme is modular in structure and students will combine study of core and elective modules. Core modules include Advanced Assessment and Clinical Decision Making in Primary Care, Non-Medical Prescribing (nurses only) and a research module. Elective modules include Chronic Disease Management, Advanced Practice Roles and Advanced Assessment and Management of Common Clinical Problems in Infants, Children and Young People in Unscheduled Care, Advanced Assessment and Management of COPD in Primary Care.

BSc/BSc (Hons)

## Community Health

This programme aims to enable health care professionals who have appropriate academic qualifications to undertake post qualifying study which can enhance their knowledge and understanding of issues and topics of relevance to their practice. Students undertaking the BSc programme will undertake two core modules (BSc (Hons) students will undertake three core modules including the dissertation module) and will then be able to choose from a range of optional modules in order to achieve the necessary credits commensurate with the award.

BSc/BSc (Hons)

## Community Nursing with Specialist Practitioner Qualification

The programme enables first level registered nurses to undertake study to acquire the knowledge, skills and attributes commensurate with safe and effective specialist community nursing practice. Study of this programme leads to the award of one of the following Nursing and Midwifery Council (NMC) recordable specialist community nursing practice qualifications: Community Learning Disability Nursing; Community Mental Health Nursing; Community Nursing in the Home (District Nursing) with Nurse Prescribing.

**Note:** This programme is also offered at PgD level. See our website for more details.

**Entry requirements:** Applicants must hold a relevant professional qualification and have a minimum of 3 years post qualifying experience and work within the context of Advanced Practice within Community based/Primary Healthcare setting. Students entering the BSc route must evidence 120 points at SCQF levels 7 and 8. Students entering the BSc Honours Route require evidence of an unclassified degree or equivalent.

**Mode of study:** Part-time or full-time.

**Contact:** Marion Welsh  
E: marion.welsh@gcal.ac.uk  
T: +44 (0)141 331 8373  
[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**Entry requirements:** Applicants should hold a relevant professional qualification and or have appropriate experience in relation to community health. Entrants to the BSc Community Health route of the programme must provide evidence that they are eligible to study at SCQF level 9 (120 points at SCQF level 7 and 120 points at SCQF level 8). Entrants to the BSc(Hons) route must provide evidence that they are eligible to study at SCQF level 10 (120 points at SCQF level 9).

**Mode of study:** Full-time or part-time.

**Contact:** Karen Roome  
E: Karen.Roome@gcal.ac.uk  
T: +44 (0)141 331 8291  
[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**Entry requirements:** Entrants to the programme must hold a relevant professional qualification. Entry to the programme normally requires applicants to have 120 SCQF level 7 points and 120 SCQF level 8 points. For entry to the BSc(Hons) programme, applicants are normally required to have an unclassified degree or evidence of study equivalent to 360 SCQF points.

**Mode of study:** In line with NMC requirements, the programme consists of 50% theory and 50% practice and entrants may undertake full-time study over one calendar year, or part-time study, normally over two calendar years.

**Contact:** Alan Middleton  
E: alan.middleton@gcal.ac.uk  
T: +44 (0)141 331 3811  
[www.gcu.ac.uk/soh](http://www.gcu.ac.uk/soh)

**Entry requirements:** All applicants registered or licensed midwives.

**Mode of study:** On-line medium of Blackboard.

**Contact:** Louise Speirs or Cathy Dickson  
E: Midwifery@gcal.ac.uk  
T: +44 (0)141 331 8646 or 8325  
www.gcu.ac.uk/soh

**Entry requirements:** Candidates should be registered nurses or health care professionals, normally evidencing 240 SHE points and will be assessed on an individual basis for Credit Transfer (CT) and Recognition of Prior Learning (RPL). This will influence the number of modules required.

**Mode of study:** Part-time or full-time.

**Contact:** Maria Crilly  
E: m.crilly@gcal.ac.uk  
T: +44 (0)141 331 3543  
www.gcu.ac.uk/soh

**Entry requirements:** Applicants must be registered on the NMC register as first level RNs.

**Mode of study:** Full-time or part-time.

**Contact:** Mary Scott  
E: mary.scott@gcal.ac.uk  
T: +44 (0)141 331 3454  
www.gcu.ac.uk/soh

**Entry requirements:** A current Nursing and Midwifery Council decision letter confirming that the applicant is to undertake the overseas nursing programme, 20 days theory only or 20 days protected learning and supervised practice. An appropriate work permit/visa. Evidence of study skills including computing skills.

**Mode of study:** Delivered over twelve weeks using online resources, with attendance at university required on four occasions; Weeks 1, 4, 7 and 12.

**Contact:** Janice Bianchi  
E: onp@gcal.ac.uk  
T: +44 (0)141 331 8634  
www.gcu.ac.uk/soh

BSc (Hons)

### Midwifery

An international programme for qualified midwives, the programme aims to enhance the academic and professional development of midwives in a climate which encourages reflection, international dialogue, inquiry and good practice. Midwives from several countries participate in on-line delivery through the medium of Blackboard and students have a diversity of experience, which promotes stimulating exchange of ideas. It takes account of previous academic and experiential learning and is a 'top up' degree. The programme offers a range of modules and compulsory research elements. Entry to the programme is at SHE/ECTS level 3/ SCQF level 9.

BSc/BSc (Hons)

### Professional Development

The programme enables registered nurses and other health care professionals to 'top-up' to degree level by taking into account and building on existing professional qualifications and experience. In particular, the programme recognises the need for clinically focused modules, as a means of assisting you to be compliant with outcomes measures such as fitness for practice and clinical governance. If you are already a graduate, there is the provision to gain graduate certificates/diplomas focusing on health service priorities. Additionally there may also be instances where you may wish to access a specific module(s) as an associate student for continuing professional development. Nurse practitioner and specialist practitioner exit awards available. For international students a BSc Nursing exit is also available.

SCPHN/BSc/BSc (Hons) (Specialist Community Public Health Nurse)

### Public Health Nursing

This programme aims to offer first level registered nurses access to specialist pathways of Public Health Nursing. On meeting the Standards of Proficiency for SCPHN (NMC 2004), they will be eligible to apply to enter the third part of the Nursing, Midwifery and Specialist Community Public Health Nursing Professional Register. The programme will provide continued personal and professional development in a career of lifelong learning, preparing practitioners as part of the wider public health workforce, to meet the current and future challenges related to public health.

ONP

### Overseas nurse programme: Theory only or theory and supervised practice.

The programme meets the requirements of the NMC's prescribed curriculum content and overall learning outcomes. It is not intended to 'teach you to nurse', rather to introduce you to the nursing environment within the UK. The programme has been developed with language and nurse lecturers and its focus is to support your education prior to working as a Registered Nurse within the UK. Nurse and language lecturers will support you throughout the programme.





School of  
Law and Social  
Sciences





Welcome to the School of Law and Social Sciences. We equip students to become critical and informed citizens who contribute positively to the complex world in which we live. We are committed to the integration of teaching and research at the highest level and we produce and disseminate global knowledge about the social and legal processes that shape our lives.

Professor Bill Hughes, Dean of the School of Law and Social Sciences

Through its programmes, research and consultancy, the School of Law and Social Sciences offers a broad range of opportunities to engage with the social and legal processes which shape our daily lives. It is also strongly committed to the integration of teaching and research at the highest level, bringing together national and international knowledge to add value to Scotland's economic, political, social and cultural life.

#### **Collaborations**

The school has a partner role in various Scottish wide research centres, such as the Centre for Research into Families and

Relationships, the Scottish Institute for Policing Research, the Scottish Centre for Criminal Justice Research and the Joseph Bell Centre for Forensic Statistics and Legal Reasoning.

#### **Student exchange**

The BA (Hons) Social Sciences programme currently has student exchange agreements with universities in the USA and Canada and with Erasmus University Rotterdam. In addition, Social Sciences offer third and fourth year students the opportunity to participate in a short stay Erasmus Intensive Programme involving several European universities.

#### **Research**

Research is a mainstream activity in the school, underpinning knowledge transfer and commercial activities. Results from the 2008 Research Assessment Exercise show that over 50% of the school's research activity was rated as being of international standard. It also hosts the Scottish Poverty Information Unit, and the Wellcome Funded Centre for the Social History of Health and Healthcare.



## Student profile

Zahrah Ahmad



**Name:** Zahrah Ahmad  
**Programme:** LLB Law  
**Year of Study:** 4th

### Why did you choose your programme at GCU?

Although other universities offered my programme, the relaxed atmosphere of Glasgow Caledonian really appealed to me in comparison. I felt the library was well equipped to help me get through four years of study and it had a very stress-free feeling to it which made the thought of studying a lot less daunting! I could see myself fitting right in.

### What are you enjoying most about life at the University?

The balance GCU provides between studying and extra curricular activities. It's a fantastic university and the lecturers are always happy to help you if you don't understand areas while studying. It makes the whole learning experience a lot less stressful!

### What are you enjoying most about your programme?

I enjoyed learning more about Legal Skills in my third year which is a module many other universities do not offer. It prepares you for your Honours year and it helps you practise the writing and client counselling skills that you will learn more about if you choose to go on to complete the Diploma.

### What is your best experience so far?

I chose Criminology as my themed pathway for my degree which allowed me to experience different areas of the Criminal Justice System. It gave me a great insight into the working world and helped me to understand what I had learnt so far in my degree.

### What advice do you have for people considering applying to university?

Don't give up! If you're really interested in studying a programme but you don't have the required grades, then do an access course or get the extra grades you need. It's worth it in the end when you're studying something you're sincerely interested in, and not regretting the choices you made.

### What single word sums up your GCU experience so far?

Rewarding

### What do you plan to do after you graduate?

I plan to study the Diploma before trying to secure a traineeship. Ideally I would love to work in the criminal justice environment.



See page  
116 for entry  
requirements.

**UCAS code:** M221

**Entry requirements:** Higher: BBBC, A-Level: Min. CCC, ILC: BBBB at Higher grade. UCAS Tariff: Min 245 UCAS points with grades specified.

**Essential subjects:** English (H) at least C plus Maths (S) Level 3, or English (A) at Grade D plus Maths (GSCE).

**Additional requirements for entry:** Non standards entrants may be invited for interview.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Assessment of this programme consists of a combination of coursework and examinations.

**Number of places:** 25.

**Mode of study:** Full-time.

**Contact:** Recruitment and Marketing Officer  
E: buslaw@gcal.ac.uk  
T: +44 (0)141 331 3256  
www.gcu.ac.uk/lss

**What you'll learn:** **Year 1:** Introduction to Legal Systems and Study\*, The Business Environment, Marketing Fundamentals, Business Law 1\*, Managerial Finance, Economics, Markets and Enterprise (EME). **Year 2:** Consumer Law\*, Perspectives on People at Work, Business Option or Business Law 1, Corporate Regulation, Management and Organisations, Business Property Law\*. **Year 3:** Strategic Management; European Union Law\*, E-law\*, Law or Business Option plus two other Law Options. **Year 4:** An Honours dissertation in Business Law\*, four Business Law/CBS options.

\*Core BA Business Law modules

**Career opportunities:** The flexibility of the programme allows you to plan for a wide variety of career pathways where the application of relevant law in context will be essential in the workplace. In addition to careers in contract formation and management, company administration and management and personnel management, graduates may find employment in estate agency, property development, the financial sector, credit control, civil claims, the voluntary sector, environmental management and, indeed, any field of business management which is subject to legal control.

The Business Law programme combines the study of a variety of business subjects with the study of the many areas of law relevant to the world of business.

This programme aims to provide you with relevant knowledge of business law and to equip you with vocationally appropriate skills of use in developing a successful career path in business or management. It also ensures that you remain highly motivated, enjoying your studies and can extend that motivation and enjoyment to all forms of work.

#### Why Caledonian?

Core business modules delivered by the Caledonian Business School provide a solid foundation in general business practice, upon which you can build your specialisms in business related law. The programme offers flexibility in your choice of modules, allowing you to tailor your learning to satisfy your interests. Staff will provide guidance to ensure a coherent theme throughout the programme.

After studying the fundamental aspects of business law, you will consolidate and expand the knowledge and skills you have acquired.

This will be done through the study of the law regulating the forming and running of a business, employing staff, dealing with clients and others. As well as examining business law in its European and international contexts, with particular emphasis on e-commerce, you may choose from a range of more specialist options in areas such as communications law, European law, housing law, health care law and ethics and employment law. This will open up a variety of career opportunities throughout Europe and the UK.



Studying Criminology at Glasgow Caledonian, you will engage with a number of established disciplines such as Criminology, Law, Sociology, History, Politics, Social Policy, and Psychology in order to contextualise criminal behaviour and view it from a social scientific and legal perspective.

Taking into account many themes such as social class, race, and gender, you will learn to analyse crime and criminal behaviour as social problems. Students will relate theoretical debates to substantive concerns such as legislation, policy and practice in criminal justice and the management of crime.

You will focus on crime and criminal justice in Scotland and the UK, as well as in the broader context of European culture and global politics, equipping you with the skills and knowledge necessary to engage in the critical, analytical and comparative study of crime and criminal justice.

The programme will help you to define and assess the extent of an individual's criminal responsibility by looking at their rights, duties and obligations to other members of society. This perspective is combined with the study of Law, providing opportunities to consider the punishments imposed by the criminal justice system and their impact, as well as to evaluate their value in rehabilitating offenders and preventing further criminal behaviour.

#### Why Caledonian?

This is an exciting (and challenging) programme, which provides an opportunity to study a whole range of subjects connected with understanding crime and criminal justice - criminology, law, sociology, history, and psychology. After completing the first year's core modules, students can specialise in the areas they are most interested in - or choose to maximise their criminology options.

**UCAS code:** M211

**Entry requirements:** Higher: AABB, A-Level: Min BBB, ILC: AABB at (H). UCAS Tariff: Min 290 with grades specified.

**Essential subjects:** English (H) at least Grade B.

**Recommended subjects:** Modern Studies (H), Mathematics (S), knowledge of Psychology or Sociology would be beneficial though not essential.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Interview is required for non standard entrants applying without formal qualifications and may be required for direct entry applications.

**Number of places:** 40-50.

**Mode of study:** Full-time.

**Contact:** Recruitment and Marketing Officer

E: [criminology@gcal.ac.uk](mailto:criminology@gcal.ac.uk)

T: +44 (0)141 331 3256

[www.gcu.ac.uk/lss](http://www.gcu.ac.uk/lss)

**What you'll learn:** **Year 1:** Introduction to Criminology and Criminal Justice, Sociology, General Psychology, Modern Britain 1789-1914, Crime and Society. **Year 2:** Modules include: Themes in American History, Introduction to Research Methods, Criminal Law, Scottish Criminal Justice Environment, plus 2 options. **Year 3:** Modules include: Researching the Social World, Policing and Society, Theoretical Issues in Criminology: Punishment and Social Control, plus 2 options. **Year 4:** Criminology Dissertation, two Criminology option modules and two options from Social Sciences, Psychology and Law (students may also take four Criminology modules).

**Career opportunities:** Criminology provides a sound academic base from which to develop a career in the police, prison service, probation, social work, community care and the law, as well as regulatory fields such as the factory and tax inspectorates, human rights' agencies, charitable organisations and lobby groups.



See page  
114 for how to  
apply.

**UCAS code:** M114

(or M115 - Fast Track Route for Graduate entrants only)\*\*

**Entry requirements:** Higher: AABBB, A-Level: Min. ABB, ILC: AABBB at Higher Grade. UCAS Tariff: Min 355 UCAS points with grades specified.

**Essential subjects:** English (H) at least grade B. A-Level English or Law. Maths Standard Grade 3 or GCSE Maths.

**Recommended subjects:** Modern Studies (H), History (H), RPMS, Psychology, Accounting.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** PEC/Access students and non standard entrants will be considered and may be invited for interview.

**Assessment:** Assessment of this programme consists of a combination of coursework and examinations.

**Professional accreditations:** This programme is accredited by the Law Society of Scotland.

**Language option:** A modern languages can be taken as a theme pathway over levels two, three and four. Please see p125 for more details.

**Number of places:** 40-45.

**Mode of study:** Full-time. Part time evening study is also available. \*\*An accelerated degree is available for graduate entrants: 2 years (f/t) or 3.5 years (p/t), (evening).

**Contact:** Recruitment and Marketing Officer  
E: llb@gcal.ac.uk  
T: +44 (0)141 331 3256  
www.gcu.ac.uk/lss

**What you'll learn:** **Year 1:** Studies include: Scots Private Law, Public Law, Intro to Legal Systems and Study and Criminal Law. **Year 2:** Commercial Law, Legal IT, Evidence, EU Law, two non law modules. **Year 3:** Jurisprudence, Legal Skills, Taxation, Property Law & Conveyancing, two law options and one non law module. **Year 4:** Honours Dissertation combined with law options and non law modules. Law options include Competition Law, International Trade Law, Public International Law, Human Rights Law & Evidence and Firesec Investigation.

**Career opportunities:** Many graduates seek entry to the Diploma in Legal Practice - the next stage for those who wish ultimately to qualify as a solicitor in Scotland. An LLB undoubtedly remains one of the 'elite' degrees, carrying great weight with employers and, in addition to Law firms, a wide range of employers recruit law graduates, particularly in business and the public sector. Examples include banks, building societies, insurance companies, accountants, universities and further education colleges, the civil service, local government, health authorities and voluntary organisations, the police force and retailers. (Source: Association of Graduate Careers Advisory Services).

**Note:** Non law theme pathways include Banking and Corporate Finance, Criminology, a Modern Language and Personal Financial Services.

The main aim of the programme is to provide a fundamental knowledge and understanding of the principal features of the legal system and law of Scotland, together with the chance to combine law training with studies in a related discipline.

The degree also develop students' IT and numeracy skills, plus the necessary intellectual, personal and key skills to enable them to develop as independent, articulate and reflective individuals.

**Why Caledonian?**

Glasgow Caledonian is accredited by the Law Society of Scotland as a provider of the LLB (Bachelor of Laws) which, together with other training, is the main route for entry to the solicitors' profession.

The LLB also has added value as it provides students with the opportunity to study another discipline to Honours level, with four themed specialisms available in criminology, a modern languages, personal financial services or banking and corporate finance.

All of these themes are highly relevant to those who wish to specialise once in legal practice, as well as for those seeking another career path.

As one of a small group to enter the LLB, you will gain your degree within a supportive and friendly learning environment.

The fast track LLB is an alternative route for Graduates with an undergraduate degree, (usually in a discipline other than law), who wish to obtain a qualifying degree recognised by the Law Society of Scotland. Such individuals will hold a good Honours degree – or exceptionally an unclassified/ordinary degree with distinction - and will be able to demonstrate strong communication and analytical skills.

The structure of the full time fast track degree allows you to complete the unclassified degree in 2 rather than 3 years.

“The fast track LLB offers an alternative route for graduates with an undergraduate degree.”

# Social Sciences

BA/BA (Hons)

The Social Sciences programme aims to stimulate students' curiosity about the constantly changing world in which they live and to equip them with the capacity to understand and critically analyse social affairs. The programme focuses upon how societies function and the various social, political, historical and economic issues, institutional frameworks and other factors which underpin those societies. Students will also have the opportunity to acquire valuable skills such as the use of a foreign language, presentational skills and research and computing skills.

The degree programme is multi-disciplinary and, after a broad based introduction, allows the student to select progressively the subjects in which they wish to specialise, including the possibility of a Single, Major or Joint Honours in Politics, History, Sociology, Psychology or Economics.

### Why Caledonian?

After a broad introduction to the Social Sciences in level one, your degree will be determined by the choices you make and what subjects you would like to study. You will also have the opportunity to acquire valuable skills, such as presentation, research and computing skills. You will investigate personal and social relations, institutions and organisations with a view to understanding how society works and how people behave and interact.

“The degree gives you a choice of modules to study with the possibility of graduating with a Major or Joint Honours in Economics, History, Politics, Psychology or Sociology.”

**UCAS code:** L000

**Entry requirements:** Higher: BBBC, A-Level: Min. CCC, ILC: BBBB at Higher grade. UCAS Tariff: Min of 245 UCAS points with grades specified.

**Essential subjects:** English (H) at least Grade C.

**Recommended subjects:** Sociology, Psychology, RPMS, History, Modern Studies.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Advanced entry applicants may be interviewed. Non standard applicants will be invited for interview.

**Exchange:** The Social Sciences programme currently has student exchange agreements with three US institutions (Lock Haven University in Pennsylvania, Ohio Northern University and Northern Kentucky University) and one Canadian institution (Brock University in Ontario). An exchange agreement has also been introduced with Erasmus University, Rotterdam and there are also short-stay opportunities available under the European Union's Erasmus Intensive Programme.

**Assessment:** Assessment of this programme consists of a combination of coursework and examinations.

**Language option:** Students can opt to study language modules in levels one, two and three. Please see p125 for more details.

**Number of places:** 140.

**Mode of study:** Full-time. Part time options are also available.

**Contact:** Recruitment and Marketing Officer  
E: [socialsciences@gcal.ac.uk](mailto:socialsciences@gcal.ac.uk)  
T: +44 (0)141 331 3256  
[www.gcu.ac.uk/lss](http://www.gcu.ac.uk/lss)

**What you'll learn:** **Year 1:** History, Politics, Psychology, Sociology, Economics and Criminology. **Year 2:** Six options, covering three subject areas from level one. **Year 3:** Four modules covering two or three subject areas studied in level two plus one compulsory module. **Year 4:** Four modules from one or two disciplines studied at level three, together with a dissertation in their discipline.

**Career opportunities:** Due to the wide ranging nature of this degree, many career paths are available. Graduates have taken up jobs in areas as diverse as teaching, HR, marketing, social work, the police service, lecturing, media, politics and public administration, housing administration, journalism, higher education, local authorities, counselling, leisure and tourism and voluntary organisations, to name but a few. Each year a number of graduates also take up postgraduate studies in one of the main disciplines.

**Note:** Students can normally undertake modules which give recognition by the British Psychological Society, allowing for further Psychology study. When applying, students need only select Social Sciences, not specific or separate disciplines.



# Graduate profile

Gregor Smith

**Name:** Gregor Smith  
**Course:** LLB (Distinction)  
**Year of Graduation:** 2006  
**Current Role:** Solicitor, Biggart Baillie LLP

## How has your career progressed since graduation?

After graduation, I completed the Diploma in Legal Practice at the University of Strathclyde and then a two year legal traineeship in order to qualify as a solicitor in Scotland. I qualified in 2009 and during my traineeship, I completed an LLM in Commercial Law (Distinction) at the University of Glasgow. I am now a qualified solicitor in the top ten Scottish law firm, Biggart Baillie LLP and specialise in Health & Safety litigation and regulatory defence.

## Why did you choose your programme at GCU?

I chose GCU because of the friendliness of the lecturing staff, the small class sizes and the quality of the campus and associated student facilities.

## What did you enjoy most about your course?

In my view, the law school staff at GCU really took an interest in my learning and development across all the years of my course. Their open door policy really enriched the teaching environment for me and it felt really collegiate. The law school staff were always on hand to give advice, assistance and encouragement. The staff clearly also enjoyed interacting with the students and actively took part in the numerous social activities throughout my course. It is now 3 years since graduation and I have maintained close contacts with the law school and consider many of the lecturers as friends.

## What advice do you have for people considering applying to GCU?

Go for it! In my view the course is intellectually robust and students who wish to enter the legal profession should have no hesitation in applying. The GCU law school staff have many years of legal practice and teaching experience between them to assist you in realising your career goals. As a final point, being a law graduate of all of Glasgow's law schools I can confirm that the degree stands up amongst its peers and at no time have I had occasion to question my decision to study at GCU.







Welcome to the School of Life Sciences. We provide a high quality student learning experience in a wide range of programmes across the Departments of Biological & Biomedical Sciences, Psychology and Vision Sciences. Many of our programmes are designed to lead straight to professional roles in the healthcare and science industries and we look forward to welcoming you to our thriving School.

[Kevan Gartland, Dean of the School of Life Sciences](#)

The School of Life Sciences is committed to the pursuit of excellence in teaching, research and knowledge transfer across the disciplines of Biological & Biomedical Sciences, Psychology and Vision Sciences. Its thriving research culture underpins the teaching in all modules at both undergraduate and postgraduate level and all Life Sciences students have the opportunity to conduct research in their own subject area in a number of well equipped laboratories.

#### **Professional accreditation**

The majority of programmes offered by the school are accredited by professional/statutory bodies including the General Optical Council (GOC), Health Professions Council (HPC), British Psychological Society (BPS), British Dietetic Association (BDA) and the Institute of Biomedical Science (IBMS).

#### **Professional partnerships**

The School is well connected to, and highly respected by, a number of public and private sector organisations, and continually strives to develop relationships with external stakeholders and potential employers of our graduates.

This includes the NHS and other leading employers who rely on us to supply them with well trained professional staff, able to cope with the challenges of the working environment with initiative, skill and enterprise.

#### **Professional placement and employability**

The majority of programmes in Life Sciences offer either a professional placement or inhouse clinical experience. Some students receive a bursary while on placement (Biomedical Science), others are able to opt for a paid placement year (Psychology). Employability attributes for the 21st century graduate are embedded across all programmes and students are supported in finding voluntary work to complement their degree pathway where appropriate.

A molecular model with black and white spheres connected by grey rods. A teal circle is overlaid on the model, containing the text "School of Life Sciences".

School  
of Life  
Sciences



## Student profile

Sean Neilson

**Name:** Sean Neilson

**Programme:** BSc (Hons) Psychology

**Year of Study:** 2nd

### What are you enjoying most about life at the University?

The biggest and most exciting part of being involved with the University is having the chance to discover skills and talents you never knew you had... and to be acknowledged for them! In this way, GCU has opened my eyes to a wealth of opportunities and possibilities.

### What are you enjoying most about your programme?

I am constantly overwhelmed by how approachable and friendly many of the academics within the BSc Psychology course are, as they have guided and supported me through my studies so far, and have helped me to realise my own potential.

### Do you belong to any university clubs or societies?

As many as possible! I am currently involved in the Voluntary work and Mentoring scheme within the department, Student Mentors, PASS Mentor, Student Leaders, Welfare Volunteering, Magazine Editor and most importantly for me, Radio Caley (the student radio station).

### What is your most memorable experience so far?

My best experience so far at GCU would be working so closely with the Students Association – they are true ambassadors for the university and great role models. Working with them on so many projects has been the best time of my life.

### What advice do you have for people considering applying to university?

With hard work, dedication, determination and the ability to believe in yourself as much as the university does then you will have no problem in succeeding. Do not hesitate to pick GCU as your first choice – when you enter the campus you become part of a massive family. I really feel at home here and do not want to leave at all!

### What do you think about Glasgow as a place to study?

Glasgow is a vibrant, colourful and eclectic mixture of cultures - the friendly faces and the amazing sights are what make Glasgow the place to be, and Glasgow Caledonian's campus sits at the heart of this amazing city.

### What single word sums up your GCU experience so far?

Inspirational.

### What do you plan to do after you graduate?

I plan to work hard to become a successful Clinical Psychologist working within the media.





See page  
116 for entry  
requirements.

**UCAS code:** C900

**Entry requirements:** Higher: CCC, A-Level: DD, ILC: CCC

**Essential subjects:** Chemistry and Mathematics at Standard Grade (at least Credit/Intermediate grade 2).

**Recommended subjects:** Biology (or Human Biology), Chemistry, English, Mathematics (H).

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** A variety of assessment methods, including coursework activities and formal examinations.

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings (applicants living further than a 50 mile radius from the University can make alternative arrangements). Visit our website for more details.

**Number of places:** 12.

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Foundation modules in Human Biology. **Year 2:** Intermediate modules in Physiology, Microbiology and Biochemistry.

**Career opportunities:** Whilst the majority of students continue onto our degree programmes, a number of diplomates go directly into employment. The focus on Biological Sciences ensures that diplomates and graduates are well suited to enter a range of biological careers e.g. in the pharmaceutical industry, the NHS, food production and quality control to name a few.

**Note:** This programme is designed to widen university access to people interested in Human Biology by offering a diploma in Human Biosciences. It may be particularly appealing to mature students who are attracted to the diverse careers on offer to our graduates, but who do not have the entry qualifications to access a degree programme directly.

A breadth of subjects are covered by the term Biological Sciences. Careers can be taken up in areas such as cell and molecular biology, food bioscience, microbiology and pharmacology. Each of these are degree programmes that can be accessed by students who successfully complete this programme.

Scientific development and discovery is advancing at an exciting pace and this underlies the rapid growth of the biotechnology industries. The diverse range of careers available becomes apparent on starting this programme and we see many of our students quickly aim to join one of our career-focused degrees.

#### Why Caledonian?

The School of Life Sciences offers a modern and friendly environment with state-of-the-art laboratories and teaching facilities. You will enjoy the support and encouragement from our staff combined with the freedom to develop a career path which suits your own interests.

Diploma students take the same lectures and laboratories as our degree students but have additional support and guidance to help ensure success. You have the opportunity to transfer to one of our bioscience degree programmes, or complete

a diploma which, in itself, offers a number of career opportunities with major employers.

In Year 1, the programme provides a foundation for the biological sciences which focuses on the basic molecules of life, cell structure and body function. On completion of this you undertake further study of physiology, microbiology and biochemistry.

Theoretical elements of the programme are supported by laboratory sessions where you will learn modern scientific techniques that are currently in use in the bioscience and health-related industries. In addition, the programme is designed to provide you with the ability to gather and interpret scientific data, to develop teamwork, communication skills, as well as IT skills. Diplomates and graduates are eligible to apply for Associate Membership of the Institute of Biology.



# Biomedical Science

BSc (Hons)

This is the only Biomedical Science degree in the City of Glasgow which is approved by the Health Professions Council (HPC) and accredited by the Institute of Biomedical Science (IBMS).

Biomedical Science provides the scientific foundation for the clinical diagnosis of disease and is vital to the operation of the National Health Service and other health-related industries. Your study of Biomedical Science (cellular pathology, clinical biochemistry, haematology, immunology and clinical microbiology) will give you the knowledge and skills needed to undertake this key role as a biomedical scientist.

### Why Caledonian?

As a biomedical scientist you would be responsible for around 70% of the diagnoses made in the NHS, a vital role which determines the treatment administered by other health care professionals (medical practitioners, nurses, dietitians, physiotherapists and radiographers).

The programme focuses on the topics which are most relevant in hospital laboratories. The degree is designed to produce highly employable graduates with both the advanced theoretical knowledge and the essential practical skills needed by today's professional biomedical scientist.



**UCAS code:** B940

**Entry requirements:** Higher: BBBC, A-Level: BCC, ILC: BBBC

**Essential subjects:** Chemistry (S) and Maths (S) - Credit/Int 2 minimum.

**Recommended subjects:** Biology (or Human Biology), Chemistry, English, Mathematics at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings. Students undertaking the placement route must undergo an Enhance Disclosure Scotland check and be vaccinated against Hepatitis B.

**Work placements:** Local NHS laboratories have agreed that approximately 30 work-based placement opportunities will be available in Trimester 2 of Year 3; as places are limited, not all students are guaranteed one. These placements take place in Scottish hospitals. By undertaking this placement, at completion of your Honours degree, you will be able to apply to register as a biomedical scientist with the HPC. An alternative study plan in Year 3 is available in which the training element is completed post-graduation. Both routes lead to possible registration with HPC.

**Professional accreditation:** Programme is accredited by the Institute of Biomedical Science and graduates who have undertaken the placement option are also eligible for registration with the Health Professions Council.

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Foundation modules. **Year 2:** Physiology, Intro to Microbiology, Cellular Metabolism & Regulation, Haematology, Immunology and Clinical Biochemistry. **Year 3:** Clinical Microbiology, Essential Molecular Biology, Systematic & Cellular Pathology, Practice Placement or Microbial Genomes, Intro to Cell Biology, Pharmacology of Chemical Mediators. **Year 4:** Molecular Biology Workshop, Research Project, Biology of Disease, Emerging and Re-emerging Infections, Advanced Blood Science, Pathophysiology & Therapeutics.

**Career opportunities:** The programme satisfies the educational requirements for Licentiate Membership of the Institute of Biomedical Science (IBMS) and, after gaining suitable experience in hospital laboratories, for HPC registration. Honours graduates may take up research posts or studentships. Other career opportunities include administration, management, information science, medical sales, teaching and many others.

**UCAS code:** C760

**Entry requirements:** Higher: BBBC, A-Level: BCC, ILC: BBC/BBBC

**Essential subjects:** Chemistry (S) and Maths (S) - Credit/Int 2 minimum.

**Recommended subjects:** Biology (or Human Biology), Chemistry, English, Mathematics at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings (applicants living further than a 50 mile radius from the University can make alternative arrangements). Visit our website for more details.

**Number of places:** 20.

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Foundation modules for Human Biology. **Year 2:** Intermediate modules including Physiology, Microbiology and Biochemistry. **Year 3:** Modules include specialised modules in Cell and Molecular Biology. **Year 4:** Students undertake a workshop in Molecular Biology and a research project in Cell and Molecular Biology (accounting for two modules) and four taught modules in advanced topics.

**Career opportunities:** A degree in Cell and Molecular Biology opens the way to an extensive array of career destinations. There are careers in research and in development and these may be in research institutes or in industry, such as the pharmaceutical industry, health and medicine. Biotechnology enterprises also recruit graduates with this qualification. The completion of the human genome sequence has provided a further spur to activity in the bio-health area. According to Scottish Enterprise, expansion of employment opportunities in this sector is currently outstripping availability of graduates, meaning you will enjoy excellent career prospects upon graduating.

**Note:** This programme shares a common first two years with a suite of related programmes, giving you a solid grounding in a range of subjects and the opportunity to change direction in your studies, should you wish.

## Modern medicine is increasingly dependent on understanding how cells and molecules interact.

This programme focuses on how human cells function in disease and health and draws on a variety of disciplines including genetics, molecular biology, cell biology and pharmacology.

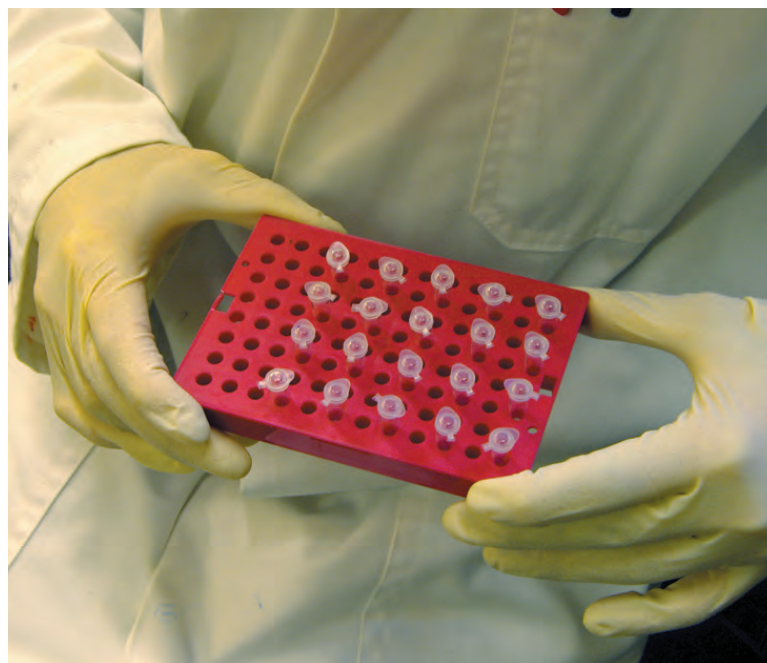
Knowledge of the interactions between molecules, cells and organs, studied in Cell and Molecular Biology, enables the biologist to identify factors in individuals that confer susceptibility to disease, providing opportunity for the development of more accurate methods of diagnosis and the design of improved therapies or cures.

### Why Caledonian?

The foundation levels of the programme include the study of physiology, microbiology, biochemistry and genetics. In Years 3 and 4, aspects of cellular regulation, immunology and molecular medicine are studied. In every subject, you will engage in high levels of practical scientific work, enhancing your lab skills, which are essential for a smooth transition to the workplace.

The hands-on learning in which you will engage allows greater interaction with lecturing staff and understanding of the subject matter, helping you to progress through the programme with knowledge of the subject which is both theoretical and practical.

The School of Life Sciences has an excellent teaching and research record and combines a friendly learning environment with state-of-the-art facilities. Staff are committed to their students, offering an open door policy and a variety of support mechanisms tailored to the individual needs of students.





# Clinical Physiology

BSc (Hons)

See page  
116 for entry  
requirements.

Clinical physiology is a Health Care Science that involves the use of instrumentation to measure physiological parameters that may be altered in disease. Clinical physiologists undertake and analyse these measurements to aid diagnosis or provide treatment options. This BSc (Hons) Clinical Physiology is specifically designed to provide both academic and clinical training for NHS trainee practitioners or associates.

## Why Caledonian?

The BSc (Hons) in Clinical Physiology at Glasgow Caledonian University, in conjunction with Stow College, is the first and only degree of its kind in the whole of Scotland. Glasgow Caledonian has over 30 years experience in delivering high quality healthcare science education whilst Stow College was previously responsible for delivering the highly-regarded HNC in Clinical Physiology. Now working together with the NHS, these institutions form an exciting new partnership in the delivery of Clinical Physiology education.

The generic modules on this programme are delivered by highly

experienced academic staff who are dedicated to producing high-calibre graduates in a friendly environment with state-of-the-art facilities.

Cardiac physiology specialist training is delivered entirely in-house by senior NHS clinical practitioners, thereby ensuring that the specialism specific-material is at the cutting edge of the profession. At present, however, trainees from other disciplines spend 2 weeks per year enrolled on similar specialist modules at either City of Westminster College (neuro and respiratory) or De Montfort University (Gastro-Intestinal). Credit-bearing work-based training is integrated into the programme to give a fully blended approach to the learning experience.



**UCAS code:** N/A (non-SFC funded programme)

**Entry requirements:** Higher: BBC or BCCC, A-Level: Minimum DDD, ILC: BBC/BCCC

**Essential subjects:** Mathematics (S) or Physics (S) at Credit/Int. 2 minimum

**Recommended subjects:** Two of Biology (or Human Biology or Biotechnology), Chemistry, Maths, Physics at Higher Grade.

**Additional requirements for entry:** Employment in an NHS Clinical Physiology department is essential. For applicants to the University Diploma programme in Clinical Physiology only (i.e. for students intending to exit with a diploma after level 2), the minimum entry requirements are CCC at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placements:** Work-based clinical education is integrated into the structure of the programme, allowing formal credit-bearing recognition students' work in employment.

**Assessment:** A combination of formal examinations, coursework exercises, laboratory reports, clinical case studies, data analyses, essays, Honours dissertations or project theses. Clinical practice elements are assessed by work-based portfolios and Professional Body examinations.

**Professional Accreditations:** This programme is accredited by the Registration Council for Clinical Physiologists (RCCP).

**Number of places:** 25.

**Mode of study:** Part-time, normally 2 days per week, plus a 3 week full-time block for the cardiology clinical specialist training (or a 2 week full-time block at either City of Westminster College for neuro and respiratory physiology or De Montfort University for Gastro-Intestinal physiology clinical specialist modules).

**Contact:** Dr. Elaine Gribben (Programme Organiser)

E: e.gribben@gcal.ac.uk

T: +44 (0)141 331 3761

www.gcu.ac.uk/sls

**What you'll learn:** **Year 1:** Fundamentals of Human Physiology, Maths, Statistics and IT, Fundamentals of Signal Processing, Health Service Practice, Work-based Learning I, Clinical Specialism I. **Year 2:** Applied Clinical Physiology, Fundamental of Pathophysiology, Physiological Measurement and Signal Processing 1, Intro Psychology for Health Professionals, Work-based learning II, Clinical Specialism II. **Year 3:** Physiological Measurement & Signal Processing 2, Fundamentals of Drug Action, Intro to Statistics (Health), Physiology & Biochemistry of Exercise, Intro to Statistical Inference (Health), Work-based learning III, Clinical Specialism III. **Year 4:** Honours Project or Dissertation, Case Studies – Integrating Theory and Practice in Clinical Physiology, Pathophysiology and Therapeutics, Work-based learning IV, Clinical Specialism IV.

**Career opportunities:** Successful completion of this programme allows graduates to practice as qualified clinical practitioners in their discipline and be registered with the Registration Council for Clinical Physiologists (RCCP).

**UCAS code:** D611

**Entry requirements:** Higher: BBBC, A-Level: BCC, ILC: BBBC

**Essential subjects:** Chemistry (S) and Maths (S) - Credit/Int 2 minimum.

**Recommended subjects:** Biology (or Human Biology), Chemistry, English, Mathematics at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings (applicants living further than a 50 mile radius from the University can make alternative arrangements). Visit our website for more details.

**Work placements:** A strength of this programme is the three month work-based placement available to students. As well as undertaking placements in the UK, students have spent time with major companies worldwide. This includes work in food processing, nutrition, clinical and non-clinical laboratory work and food research and development. Students are regularly offered jobs by their placement company after they have graduated.

**Number of places:** 20.

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Foundation Modules in Biological Sciences. **Year 2:** Foundation and Intermediate Modules in Biological Sciences, Nutrition and Food Science. **Year 3:** Modules including: Food Science, Food Commodities, Applied Microbiology, Chemical and Instrumental Analysis of Foods, Nutrition and Health and Essentials of Molecular Biology. **Year 4:** Students undertake an industrial placement in a food or food-related industry or research centre for the first Semester (three module equivalent period). Food Toxicology is provided as a taught module (Semester B). In Semester B, students also undertake an food related Honours Project (two module equivalent). This project may be based at the university or be based at an appropriate partner site.

**Career opportunities:** The demand for graduates who understand the technologies associated with the food industries is getting larger every year. You may wish to focus on research and development, product and process development, marketing or production. Regardless of the discipline, there are more jobs than ever before. We are regularly approached by some of the UK's largest companies actively seeking our graduates.

The food industry is the single largest manufacturing industry in the UK, employing in the region of 500,000 people with a turnover of over £60 billion per annum. Job prospects for food bioscientists are exceptionally good, both in the UK and internationally.

As a food bioscientist, you will have an excellent career path with employers in food manufacturing, research, food safety, process development and new product development. You need only look at the stock market and see the number of food manufacturers listed to get some idea of the size of this industry.

Your skills will encompass areas as diverse as genetics, marketing, microbiology and nutrition combined with key industry skills and an understanding of food legislation.

#### Why Caledonian?

Glasgow Caledonian University is the only institution in Scotland offering this innovative programme and we arguably have the strongest emphasis of any university in this country on food and its development. This programme fulfils the requirement for membership of the UK Institute of Food Science and Technology.

We focus on the modern scientific techniques that are now extensively employed in this dynamic industry to provide the safe, nutritious and diverse food ranges that the modern consumer demands. As a highly qualified graduate, you will be educated in both the classical aspects of food science such as chemistry and nutrition, applied aspects such as food product marketing and more modern techniques such as gene manipulation.

Glasgow Caledonian has an excellent reputation as a major centre for food research and training in the UK.

“We are the only university in Scotland to offer this unique programme which is aimed at providing the food industry with appropriately qualified graduates.”

# Forensic Investigation

BSc/BSc (Hons)

See page  
114 for entry  
requirements.

Forensic investigation is the application of scientific and technical expertise to produce evidence acceptable in a court of law.

What makes this programme so exciting is the nature of the problems waiting to be solved and this provides its own reward.

The degree not only gives you a unique opportunity to acquire a high level of expertise in a chosen specialist subject area, but also skills widely sought after by potential employers.

### Why Caledonian?

This programme is distinctive in that it marries a deep understanding of scientific principles with a broad and varied educational background, significantly enhancing the graduate's employment prospects. It has been designed to give the graduate a solid science base on which to build. The chemical and biological sciences are thus pursued in depth forming the

core of the programme, supported by a range of optional subjects closely related to the main accident and incident theme.

These options are grouped into two academically coherent strands, so that students can choose a psychology strand or a chemistry/biosciences strand, affording the student the opportunity of fine-tuning the programme to address their particular interests or ambitions. Thus, a student who has a particular interest in the personal motivations which underlie crime might opt for the supporting modules in psychology.



**UCAS code:** F410

**Entry requirements:** BBBC, A-Level: BCC, ILC: BBBC

**Essential subjects:** Chemistry (H), Mathematics and English (Standard Grade Credit Level/Intermediate 2).

**Recommended subjects:** Biology (or Human Biology), English, Mathematics at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Combination of unseen written examination, assessments and oral presentations.

**Professional accreditation:** The BSc (Hons) Forensic investigation degree is recognised by the Royal Society of Chemistry as satisfying the academic requirements for associate membership.

**Number of places:** 30.

**Mode of study:** Full-time.

**Contact:** Dr J MacLachlan

E: Forensics@gcal.ac.uk

T: +44 (0) 141 331 3880

[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Introductory modules in Chemistry, Biosciences, Psychology and Law. Forensic Investigation, a scenario-based module, invites you to apply scientific expertise to real life forensic problems while General Psychology provides an introduction to the biological basis of behaviour and gives an insight into perception, learning and intelligence. **Year 2:** Physical and Organic Chemistry form a major part of your work as does the Gene and Microbiology. There is a choice of two optional strands which will be pursued to Year 4: Chemistry/Bioscience or Psychology. **Year 3:** Instrumental Analytical Chemistry - techniques learned in this area will be applied through Forensic Analysis to areas such as fire investigation, substances of abuse and the analysis of toxic residues. There will be an emphasis on making valid analytical measurements, including knowledge of the concepts of traceability, robustness and uncertainty, on which court cases often rely. **Year 4:** Dissertation, also Advanced Forensic Micro(?), Environmental Forensic and Advanced Forensic Biology (which will give you valuable 'hands-on' experience of DNA profiling).

**Career opportunities:** The degree is an excellent preparation for a wide variety of careers directly related to the subjects studied in the programme as well as affording a wealth of opportunities which are not subject specific, but for which the possession of an Honours degree is an essential requirement. Typical employment opportunities can be found in forensics, law enforcement and protection, insurance, environmental fields, public sector and consumer protection and chemical analysis.



# Human Biology with Sociology and Psychology

BSc/BSc (Hons)

**UCAS code:** CL03

**Entry requirements:** Higher: BBBC, A-Level: BCC, ILC: BBBC

**Recommended subjects:** Human Biology (or Biology), Chemistry, Mathematics, Psychology or Sociology. English (S) or (H).

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings (applicants living further than a 50 mile radius from the University can make alternative arrangements). Visit our website for more details.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Number of places:** 20.

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Introductory modules for Human Biology, Psychology and Sociology. **Year 2:** Modules include Human Physiology, Brain Behaviour and Experience, The Person in a Social Context, Self and Society, Introduction to Microbiology and The Gene. **Year 3:** Modules include Systematic and Cellular Pathology, Genetic Manipulation and Bioethics, Personality and Individual Differences, Research Methods for Psychology, Nutrition and Health, Human Physiology in Health and Disease, Clinical Microbiology, Pharmacology, Human Cognition, Social Psychology, Researching the Social World, Critical Perspectives in Health & Illness, Biopsychology. **Year 4:** Students take an empirical project or dissertation (equivalent to two modules) and four other modules from: Forensic Psychology, Emerging and Re-emerging Infections, Human Toxicology and the Environment, Pharmacology: Special Topics, Environmental Psychology, Pathophysiology and Therapeutics, Neuropsychology, Abnormal Psychology, The Body & Society and Ageing and Society.

**Career opportunities:** Graduates may pursue careers in health promotion, health counselling, voluntary organisations in the health service, welfare and social services and in all other areas dealing with health and human issues. They will also be well equipped for careers in many other areas such as journalism and the leisure industry. Graduates also pursue careers in research-based activities within the universities and public service and are qualified to study for higher degrees.

There is a strong relationship between body and mind, brain and behaviour and these associations have profound effects on society. The Human Biology with Sociology & Psychology programme exposes students to the interface between biology and the other disciplines, which is particularly important in the light of the social, ethical and psychological implications of recent developments in the life sciences.

### Why Caledonian?

The School of Life Sciences offers a friendly environment with state-of-the-art facilities. As part of a relatively small group, you will enjoy easy access to both staff and laboratories.

The programme is run by dedicated staff who are committed to producing quality graduates with an up-to-date theoretical knowledge combined with well developed laboratory and communications skills and who can successfully compete in an expanding global job market.

This particular mix of subject areas will only be found at Glasgow Caledonian and the opportunity to either complete this degree, or possibly move across to one of the other specific career areas, is at the end of Year 1. Although multi-disciplinary in nature, the programme has a strong emphasis on human biology and the flexibility of the modules on offer allows student choice as well as a degree of specialisation.

By the end of your second year, you will have a good appreciation of the specialist streams and you can choose subjects in your third and Honours years which you feel are most interesting and appropriate to your career aspirations.

“This very popular degree is the only one of its kind in Scotland, combining all three of these related disciplines.”

# Human Biosciences

BSc (Hons)

The human biosciences are a diverse range of subjects connected by the common bond of human biology and a scientific foundation for our understanding of human health and disease.

Career paths in areas such as cell and molecular biology, food bioscience, microbiology and pharmacology are all available, leading to a wide range of career opportunities.

### Why Caledonian?

The opportunity to either complete the Human Biosciences degree, or move across to one of the other specific career areas, is available up to the end of your second year of study.

The programme is run by dedicated staff, committed to producing quality graduates who have an up-to-date theoretical knowledge, combined with well developed laboratory and communications skills and who can successfully compete in a global job market.

This programme has a greater emphasis on human aspects. By the end of your second year, you will have a good appreciation of the specialist streams and you can choose subjects in your third and Honours years which you feel are most interesting and appropriate to your career aspirations.

Whilst some students choose to pursue one of the specialist degrees at the end of their second year of study, a number choose to continue to blend these subjects to keep as many job pathways open to them as possible.

**UCAS code:** B120

**Entry requirements:** Higher: BBBC, A-Level: BCC, ILC: BBBC

**Essential subjects:** Chemistry (S) and Maths (S) Credit/Intermediate Grade 2.

**Recommended subjects:** Biology (or Human Biology), Chemistry, English, Mathematics at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings (applicants living further than a 50 mile radius from the University can make alternative arrangements). Visit our website for more details.

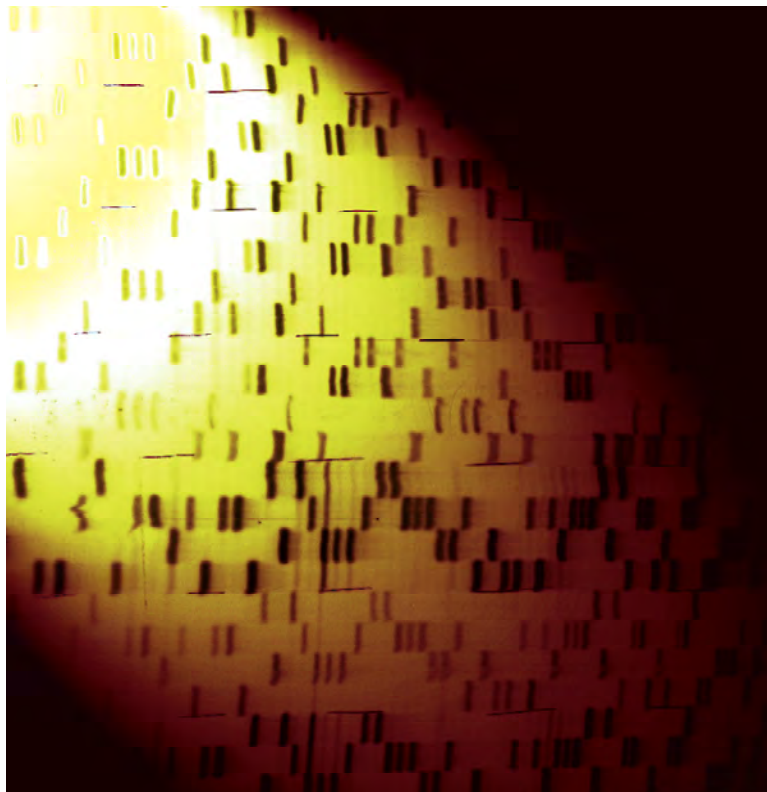
**Number of places:** 20.

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Foundation modules for Human Biology. **Year 2:** Intermediate modules in Physiology, Microbiology and Biochemistry. The specialist degrees (Pharmacology, Microbiology, Cell and Molecular Biology and Food Bioscience) are finalised at the end of Year 2 and students on the Human Biosciences programme have the option of switching degree programmes at this stage. **Year 3:** Six modules from the Level 3 programmes in Pharmacology, Microbiology or Cell & Molecular Biology. **Year 4:** Students undertake a workshop in Molecular Biology and a research project (accounting for two modules) and four appropriate modules from some Level 4 programmes.

**Career opportunities:** The focus on applied biological sciences ensures that graduates are well suited to enter teaching, pharmaceutical development, the Forensic Science Service, product research and manufacture, food production, environmental management and the pesticide industry. In Scotland, expansion of employment opportunities in the bio-health/ biotechnology sector is out-stripping availability of graduates (Source: Scottish Enterprise). Many graduates choose the option of a higher degree before seeking employment. The School of Life Sciences has a well-established PhD programme which is a possibility for those students wishing to pursue further study. In addition to the other career opportunities available, this particular degree is useful to a graduate wishing to teach Biological Sciences at school or at an FE college.



**UCAS code:** B400

**Entry requirements:** Higher: BBBB, A-Level: BCC, ILC: BBBB

**Essential subjects:** Chemistry (H) and one other science.

**Recommended subjects:** English (H), Mathematics (H).

**FE college students** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants will be expected to show evidence in their application that they have contacted a Dietetics Department or dietitian and should be outgoing with good oral and written communication skills.

**Clinical placements:** The programme contains a two to four week orientation placement in a clinical department between Years 2 & 3. Following this, there are two 12 week clinical placements, starting in July of Year 3, with a consolidation block between placements. Placements are an integral part of becoming eligible for HPC registration and also gaining real experience of dietetics as a career.

**Professional accreditation:** This Honours degree programme leads to eligibility for HPC registration and follows the core curriculum set out by the British Dietetics Association.

**Number of places:** 20.

**Mode of study:** Full-time.

**Contact:** Pam Smith  
E: [dietetics@gcal.ac.uk](mailto:dietetics@gcal.ac.uk)  
T: +44 (0)141 331 8814 (Anne Marie MacDougall, Admissions Administrator)  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Modules including; Fundamentals of Human Physiology, Essentials of Nutritional Science, Introductory Psychology for Health Professionals, Interprofessional Learning and Sociology and Health. **Year 2:** Metabolic Pathways, Introduction to Microbiology, Nutrition through the Lifecycle, Research Methods and Elementary Statistics, Food Science, Human Energy Balance, Clinical Placement A. **Year 3:** Applied Clinical Studies, Therapeutic Dietetics 1, Nutrition and Health, Therapeutic Dietetics 2, Introduction to Counselling Skills in Health. **Year 4:** Placement B and Consolidation, Placement C and Consolidation, Honours Project.

**Career opportunities:** Graduate employment rates in dietetics are very high, with jobs located throughout the UK and further afield. Employment can either be found in a clinical setting, usually within the NHS, or in community practices. Dietitians also find employment in many other related fields including research, the food industry, consultancy and private practice, social services, media, health education and health promotion.

**Note:** Students are required to undergo an enhanced criminal disclosure procedure with Disclosure Scotland prior to placement.

Dietetics offers the opportunity for students with good communication skills, an interest in food science, food, health and people to combine all these elements and ultimately to apply their knowledge in a future career in nutrition and dietetics and the promotion of health.

#### Why Caledonian?

Glasgow Caledonian University has a long track record in Dietetics education, with the longest running Dietetics programme in the UK and we have an excellent reputation within the profession for the high calibre of our graduates. This is achieved through a blend of top quality teaching in excellent facilities alongside our development of independent learning skills in our students. We aim to help all our students reach their full potential.

Successful completion of this degree leads to eligibility for registration with the Health Professions Council (HPC). HPC Registration equips you for a career as a dietitian in the NHS.

In order to better prepare for the degree, we recommend you try to arrange a visit with a dietitian to understand and appreciate the wide range of activities they undertake.





A wide variety of industries rely upon the specialist skills of the microbiologist. Hence graduates enjoy career opportunities in such diverse fields as healthcare, food and water industries, biotechnology, the environment, pharmaceuticals and research, both government and academic.

These prospects arise because microorganisms such as bacteria and viruses are a vitally important group, responsible for many of the key activities of life on earth. They are also of great significance to mankind.

Some of them can be harmful, responsible for infectious diseases, but others are beneficial and are exploited by the biotechnology industries to produce foods, alcoholic drinks and health care products such as antibiotics.

#### Why Caledonian?

The School of Life Sciences has an excellent teaching and research record. It combines a friendly learning environment with state-of-the-art facilities. It offers a range of support tailored to individual needs where necessary, including open door access. Major emphasis is placed upon laboratory work throughout the programme. This enhances student learning, by linking theory with practice. It also gives students the lab skills which employers seek.

This programme shares a common first two years with a suite of related Bioscience programmes, providing students with a solid grounding in a range of subjects and the opportunity to change direction if required.



**UCAS code:** C510

**Entry requirements:** Higher: BBBC, A-Level: BCC, ILC: BBBC

**Essential subjects:** Chemistry (S) and Maths (S) - Credit/Int 2 minimum.

**Recommended subjects:** Biology (or Human Biology), Chemistry, English, Mathematics at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings (applicants living further than a 50 mile radius from the University can make alternative arrangements). Visit our website for more details.

**Work placement:** There is an option in Year 3 to complete a work-based placement.

**Number of places:** 25

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Foundation modules for Human Biology. **Year 2:** Intermediate modules in Physiology, Microbiology and Biochemistry. **Year 3:** Specialised modules in Microbiology. **Year 4:** Students undertake a workshop in Molecular Biology and also a research project in Microbiology, as well as four specialised modules.

**Career opportunities:** In Scotland, expansion of employment opportunities in the bio-health/biotechnology sector is currently out-stripping the availability of graduates, meaning you will enjoy excellent career prospects upon graduating. Microbiologists can follow a wide range of career options. These include: identifying and assisting in the treatment of infectious diseases; in the pharmaceutical or biotechnology industries where micro-organisms and their products are used; or in food and drink industries where micro-organisms must be either eliminated or utilised e.g. in the brewing industry. Other microbiologists work in the water supply or waste-water treatment sectors. Finally, a wide range of research as well as teaching careers are open to the microbiology graduate. A PhD offers even greater career opportunities.

**UCAS code:** B502

**Entry requirements:** Higher: BBC, A-Level: CC, ILC: BBBCCC  
UCAS Tariff: 180 points

**Essential subjects:** English (AS/GCSE) or English & Communication at Intermediate 2 (B). Mathematics (Standard Grade) 2 minimum, or Mathematics at Intermediate 2 (B). Physics (Standard Grade 2 or Intermediate 2 at B; AS/GCSE or Double Award Science at BB).

**Recommended subjects:** English, Mathematics, Physics, Biology.

**Additional requirements for entry:** Personal statement stating intent of studying ophthalmic dispensing. Some work experience always useful.

**FE college students:** Contact us for a copy of our FE Supplement.

**Clinical placements:** During your studies, you will spend time in an optical workshop and in an ophthalmic practice.

**Summer School:** Physics, Biology, Maths or English, if required. Please see p131 for details.

**Number of places:** 20-25.

**Mode of study:** Full-time.

**Contact:** Dr Uma Shahani  
E: u.shahani@gcal.ac.uk  
T: +44 (0)141 3313695  
www.gcu.ac.uk/sls

**What you'll learn:** **Year 1:** Geometrical, Visual Optics, Optical Appliances, Law, Communications and Management, Anatomy and Physiology of Human Visual Function. **Year 2:** Clinical Dispensing Studies, Ophthalmic Pathology and Pharmacology, Refractive Management, Low Vision and Optical Appliances. **Year 3:** Management, Marketing, Delegated Functions, Contact Lenses, Environmental Dispensing, Optics and Photometry and Low Vision Studies.

**Career opportunities:** Ophthalmic Dispensing offers an interesting and worthwhile career with good employment prospects in large organisations, partnerships, private practices or in running your own business. This programme has an excellent record of graduate employment in dispensing optics. To practice as a dispensing optician, you must also pass the exams of the Association of British Dispensing Opticians. You must complete a period of supervised professional practice before applying to the General Optical Council for professional registration, much of which can be concurrent with university training or students with a part-time job in optical practice.

**Note:** All students are required by the General Optical Council to have been cleared by Disclosure Scotland at the advanced level to work in a clinical situation. Disclosure is sought for the Clinic here at Glasgow Caledonian University and applications will be made during enrolment in the first week of the first year of the course. This Disclosure certificate once obtained will last for the duration of the course for the GCU clinic premises only.

A dispensing optician has a role in eye care within the community. During your career as a dispensing optician, you will not only fit and supply spectacles, but you can also develop your career to include eye screening, contact lens fitting and supplying specialist optical appliances.

### Why Caledonian?

Glasgow Caledonian is the only university in Scotland to offer a degree in Ophthalmic Dispensing. At our modern, purpose-built Dispensing Clinic on campus, a strong emphasis is placed upon the integration of theory and practice. Students benefit from studying in a recognised Centre of Excellence in Vision Sciences which has developed strong links with its related professions.

The first two years of the programme are designed to give you the knowledge and understanding of optical principles and how they relate to effective correction of refractive errors in the human eye. Having completed the first two years, you will understand the fundamental scientific principles upon which ophthalmic dispensing is based.

In your third year, you will develop more advanced skills, which are designed to enhance the role of a dispensing optician in today's optical practice. You will be able to carry out certain clinical tasks, some of which may be under the supervision or direction of an optometrist. A sound knowledge of both management and retailing issues will also enhance the career of a dispensing optician.

A high standard of performance in all modules in second year may allow entry to the second year of the Optometry degree. Each application will be considered on its own merits.

“Study this degree programme at a recognised Centre of Excellence in Vision Sciences – the only centre of its kind in Scotland.”

This degree will help you gain knowledge and expertise in subjects related to the identification and treatment of visual disorders. Our School of Life Sciences, a recognised centre of excellence, has state-of-the-art facilities including an eye clinic on campus, with specialised accommodation equipped with the latest instruments and apparatus allowing you to gain experience throughout your studies.

#### Why Caledonian?

Glasgow Caledonian is the only university in Scotland to offer a degree in Optometry. Our Optometry programme offers an excellent integrated, professional and scientific education in optometry. It emphasises clinical practice and provides ideal training for careers in private practice, hospitals or research.

Throughout the programme you will put the theory into practice by working with real patients through regular placements with hospital eye

departments and the Resource Centre for the Blind. This lets you apply the knowledge and skills gained on the programme to real life situations prior to entering the work place.

All clinical studies feature very close cooperation with academic staff, whose responsibility it is to individually check or assess the work of each student. All our students enjoy the benefit of personal tutors to whom they can come if they require help with studying or personal problems.



**UCAS code:** B510

**Entry requirements:** Higher: AAABB, A-Level: AAB, ILC: AAABBB UCAS Tariff: 384 points (minimum)

**Essential subjects:** English, Maths, Physics at least Standard Grade, GCSE or ILC.

**Recommended subjects:** Maths, Physics, Biology, Chemistry, English, and Modern Studies/History.

**Additional requirements for entry:** Personal statement stating intent of studying optometry. Some work experience always useful.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Clinical placements:** The programme features regular placements with hospital eye departments and the Resource Centre for the Blind, during which time you will work with real patients and put theory into practice.

**Summer School:** Physics, Biology, Maths or English if required. Please see p131 for more details.

**Number of places:** 55-60.

**Mode of study:** Full-time.

**Contact:** Dr Uma Shahani

E: [u.shahani@gcal.ac.uk](mailto:u.shahani@gcal.ac.uk)

T: +44 (0)141 331 3695

[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Fundamentals of biological and optical subjects in order to develop an understanding and knowledge of the human eye – its optical media (e.g. lens), blood flow to it and its neural structures. **Year 2:** Pathology and Pharmacology. Introduction to procedures for eye examinations. **Year 3:** Extension of clinical work, including regular work with patients requiring eye examination Studies in Ocular Disease and Contact Lens Studies. **Year 4:** Experience with specialist clinics like Binocular and Children's Vision, as well as Visual Impairment, Vision at Work and Ocular Therapeutics, Honours project.

**Career opportunities:** Graduates are able to register as optometrists with the General Optical Council after one year's supervised clinical practice and completion of the Professional Qualifying Exam of the College of Optometrists. In addition to private optometric practice, a number of other career paths are also open to graduates of the programme, such as hospital eye services and academic pathways, for example MPhil or PhD study

**Note:** All students are required by the General Optical Council to have been cleared by Disclosure Scotland at the advanced level to work in a clinical situation. Disclosure is sought for the Clinic here at Glasgow Caledonian University and applications will be made during enrolment in the first week of the first year of the course. This Disclosure certificate once obtained will last for the duration of the course for the GCU clinic premises only.



**UCAS code:** B210

**Entry requirements:** Higher: BBBC, A-Level: BCC, ILC: BBBC

**Essential subjects:** Chemistry (S) and Maths (S) - Credit/Intermediate grade 2.

**Recommended subjects:** Biology (or Human Biology), Chemistry, English, Mathematics at Higher Grade.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Additional requirements for entry:** Applicants are invited for interview to one of our Biorama evenings (applicants living further than a 50 mile radius from the university can make alternative arrangements). Visit our website for more details.

**Professional accreditations:** Student membership of the British Pharmacological Society.

**Number of places:** 25.

**Mode of study:** Full-time.

**Contact:** Dr A Corbett  
E: A.D.Corbett@gcal.ac.uk  
T: +44 (0)141 331 3231  
[www.gcu.ac.uk/sls](http://www.gcu.ac.uk/sls)

**What you'll learn:** **Year 1:** Foundation modules in Human Biology. **Year 2:** Intermediate modules including Physiology, Microbiology and Biochemistry. **Year 3:** Fundamentals of Drug Action, Pharmacology of Chemical Mediators, Cellular Signalling and Trafficking, Systematic and Cellular Pathology, Immunology and Essential Molecular Biology. **Year 4:** Students undertake a workshop in Molecular Biology and a research project in Pharmacology (accounting for two modules) and four specialised modules.

**Career opportunities:** Completing our degree will give you a surprisingly broad range of career opportunities. Successful graduates can look forward to a fascinating career in teaching and research within an academic environment, hospitals and government laboratories or in the pharmaceutical industry, where the door is open to many lucrative career paths. In Scotland, the expansion of job opportunities in the health-related industries and biotechnology sector are currently outstripping the number of people graduating with degrees in these areas (Source: Scottish Enterprise). Graduate pharmacologists can take other career paths such as teaching, management and the Forensic Science Service. Another option is to continue your studies to PhD level, opening up even more lucrative career opportunities. Our School of Life Sciences has a well established and respected PhD programme.

Pharmacology plays a key role in the development of new medicines. Our degree provides a comprehensive education in pharmacology with all students having the opportunity to proceed to Honours without further selection.

Pharmacologists are responsible for the wide range of drugs that are available for the management of human disease. Aspirin is a painkiller, but it is also used in the management of cardiovascular disease. How does it work? How do inhalers relieve asthma attacks? Can drugs be developed to prevent or minimise the effects of a heart attack?

#### Why Caledonian?

The content of this programme has been designed to follow the guidelines set out by the British Pharmacological Society, the lead body for Pharmacology professionals.

Our Pharmacology lecturing staff combine a depth of teaching experience with knowledge gained from cutting-edge research to provide you with an excellent learning environment and a broad education in Pharmacology.

Moreover, this degree encompasses a large proportion of practical work, which ensures that our graduates develop the laboratory skills sought by employers.

A distinctive and important feature of our Pharmacology degree is that all students who successfully complete each year of the programme are eligible to proceed to the Honours degree, should they wish to, without further selection. The open door policy operated by staff, is aimed at creating a friendly learning environment where support is always available.

“Pharmacology plays a key role in the development of new medicines. You will learn how the body works and how drugs can be used to manage disease states.”

Psychology's intriguing subject matter, blend of specialist knowledge, generic skills and the opportunity to practise those skills in the workplace, provide its graduates with opportunities for personal growth and many of the characteristics sought by potential employers.

Psychology is generally defined as the science of behaviour and experience. It is concerned with understanding what people do and why they do it. Psychologists carry out research, develop theories and often try to solve practical problems. These three elements all feature strongly in this programme.

#### Why Caledonian?

The BSc/BSc (Hons) Psychology programme is designed to provide a stimulating and challenging grounding in the science of psychology. It also permits students to select modules from other relevant disciplines which complement psychology. This feature should strengthen students' opportunities to pursue a career in their chosen area.

In the earlier levels, the study of psychology is balanced with options from other disciplines including biology, media studies, marketing,

social sciences and European languages. Later, there is the opportunity either to specialise entirely in psychology or to continue also to study another discipline. Most modules are delivered by means of lectures, practical work and seminars, with a strong emphasis at all levels on personal contact. Assessment is based on both coursework and examinations.

All students who successfully complete the first three levels of the programme are eligible to proceed to Honours level if they wish, without further selection, which is a distinctive and important feature of this programme. The Honours degree confers eligibility for the Graduate Basis for Membership (GBC) with the British Psychological Society necessary for eligibility to many postgraduate courses in psychology – provided that specified options are taken.



**UCAS code:** C800

**Entry requirements:** Higher: ABBB (over one sitting); AB BBB (over two sittings), Advanced Higher: ABB, A-Level: ABB, ILC: AB BBB, UCAS Tariff Equivalent: 275 points (340 points over 2 sittings)

**Essential subjects:** English (S) and Maths (S) credit level or GCSE grade C.

**Additional requirements for entry:** An interview may be required.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Work placement:** Work-based learning modules are available and Psychology Placement Scheme graduate-level work experience is available after year 3. Placements last from 30 weeks to one year. Many may be paid, but honorary clinical assistantships in the health service, forensic psychology in HM Prison Service or with charities may be unpaid.

**Assessment:** A combination of both coursework and formal examination.

**Professional accreditations:** This programme is accredited by the British Psychological Society.

**Language option:** Language options are available subject to individual timetables. Please see p125 for details.

**Summer school:** Maths or Adult Return to Study summer classes are available. Please see p131 for details.

**Exchanges:** Opportunities exist to spend one trimester studying at a university in Europe or North America during Year 2 of the programme.

**Number of places:** 72.

**Mode of study:** Full-time and part-time.

**Contact:** Admissions Tutor  
E: psychologyadmissions@gcal.ac.uk  
T: +44 (0)141 331 3119  
www.gcu.ac.uk/sls

**What you'll learn:** **Year 1:** Modules include Introductory Skills for Psychology; Employability and Career Development for Psychology; plus options. **Year 2:** Modules include Research Methods in Psychology, The Person in a Social Context plus options. **Year 3:** Modules include Human Cognition, Social Psychology, Personality and Individual Differences. **Year 4:** Empirical Project, Historical and Conceptual Issues, plus options. Note: The range of optional modules may vary and are subject to timetabling.

**Career opportunities:** Some graduates become professional psychologists after postgraduate training in areas such as clinical, educational, occupational, counselling or forensic psychology. Others choose to undertake research and follow an academic career. However, many pursue careers in diverse areas such as human resources, marketing, social work and teaching.

# Psychology with Interactive Entertainment

BSc/BSc (Hons)

**UCAS code:** C8G4

**Entry requirements:** Higher: BBCC (over one sitting); BBBCC (over two sittings), A-Level: CCC, ILC: BBBCC at Honours Level

**Essential subjects:** English and Mathematics Standard Grade level 3, GCSE grade C or equivalent.

**FE college students:** Contact us for a copy of our College Student Supplement.

**Assessment:** Modules are normally assessed by a combination of both coursework and formal examination.

**Summer School:** Maths or Adult Return to Study summer classes are available and are used as a means of entry at the discretion of the Admissions Tutor, where required. Please see p131 for more details.

**Number of places:** 10.

**Mode of study:** Full-time (please contact us for information on part-time study).

**Contact:** Admissions Tutor  
E: psychologyadmissions@gcal.ac.uk  
T: +44 (0)141 331 3119  
www.gcu.ac.uk/sls

**What you'll learn:** **Year 1:** Four psychology modules including Introductory Skills for Psychology, Psychology in the real world, plus two modules from computing including Integrated Project 1. **Year 2:** Three psychology modules including Brain, Behaviour and Experience and The Person in a Social Context, plus three computing modules including Interactive Storytelling and Games Design 1. **Year 3:** Three psychology modules including Human Cognition and Personality and Individual Differences and three computing modules including Psychology of Design and Games Design 2. **Year 4:** Two psychology modules including Cyber-Psychology and two computing modules including Serious Game Design. There will also be an integrated project spanning issues from psychology and gaming.

**Career opportunities:** The games and creative media industries are areas of significant growth within the Scottish Economy. It is the aim of BSc/BSc (Hons) Psychology with Interactive Entertainment to meet the needs of employers in providing a well rounded knowledge of both psychological processes and the gaming industry. This will allow graduates to seek employment in the games design industry, particularly as they will have a unique understanding of how a potential game is likely to impact on the intended user.

The video games industry continues to grow every year with constant advances made in the field of video game technology. Subsequently, the software is always evolving in order to push the limits of this technology and produce more advanced computer gaming experiences for the increasingly sophisticated gamer.

Psychology with Interactive Entertainment is a unique new programme which considers the influence of digital media on the user. It provides an understanding of psychological theory with a focus on gaming.

Psychology, defined as the science of behaviour and experience, is concerned with understanding what people do and why they do it. This programme integrates psychological theory with an understanding of the process of designing games, particularly focussing on the impact of gaming on the user.

## Why Caledonian?

The BSc/BSc (Hons) Psychology with Interactive Entertainment programme is designed to provide an exciting and stimulating grounding in psychology and games design. Around half of the content of the programme is based on psychological theory and half is from computing. Students on this programme will be utilising up to date industry based software and graphical media development environments for the creation of games genres. This would range from educationally based

storytelling games for the younger audience, simulation and strategy games, to full-scale first-person action games.

Subjects covered at the earlier levels introduce psychological theory as well as the theory of games design. Modules cover learning and cognition, introduction to media and content creation, interactive storytelling, personality, social psychology, psychology and the internet and serious games design. Most modules are delivered by means of lectures, practical work and seminars, with a strong emphasis at all levels on personal contact. Assessment is based on both coursework and examinations.

All students who successfully complete the first three levels of the programme are eligible to proceed to Honours level. At Honours level students will carry out an integrated project drawing together psychological theory and applying it to the production of video games.



## Further information

This section of the prospectus is designed to tell you a little more about life at Glasgow Caledonian as well as helping to guide you through making your decision and applying to study here.

On the following pages, you'll find advice on things like the UCAS application process, fees and funding options, entry requirements, student support, campus facilities and additional information for international students.

- 113 Countdown to university
- 114 How to apply
- 116 Entry requirements
- 118 Finance and funding
- 120 International students
- 122 Discover Scotland
- 124 Study Abroad and Student Exchanges
- 125 Add a language to your degree
- 126 Your studies
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- 142 Maps and directions



“Call us on  
**0141 331 8681**, email  
**helpline@gcal.ac.uk**  
or visit our website  
**www.gcu.ac.uk.**”



“You will not only leave university with a degree - you will take with you a set of life skills that are invaluable to anyone.”

**Marc, 4th year student**

**Contact:**

UCAS Customer Services,

PO Box 28, Cheltenham, GL52 3LZ

T: 0870 1122211

E: [enquires@ucas.ac.uk](mailto:enquires@ucas.ac.uk)

[www.ucas.com](http://www.ucas.com)

**The year prior to starting university**

**June:** You should be beginning to research the programmes and careers you are interested in, with the help of your Guidance Teachers and Careers Adviser if you are at school or college. At this stage you should think about the universities you are interested in and find out the dates of their Open Days.

**August:** Regional careers conventions are held throughout Scotland, beginning in August and continuing throughout September. University representatives will be there to answer questions, so you should talk to staff and gather as much information as you can on all the universities and programmes in which you are interested.

**September:** During September and the following few months, you should be attending the open days of the universities you would like to apply to. Only by visiting campuses will you get a real ‘feel’ for the university and the university, as well as the city, has to be just as right for you as the programme of study. Glasgow Caledonian’s annual Open Day is usually held during the second week of September. In 2010, it will be held on September 8th.

**October:** Most schools will have you well on the way to completing your application forms at this stage. Make sure you work to the deadlines set by your Guidance Teacher or Careers Adviser.

**The year of entry to your programme**

**January:** The deadline for applications is 15th January of the year of entry.

You will receive an email acknowledgement of your application from our Admissions Office, as well as further information about the admissions process, so make sure you provide an email address.

**February:** Throughout the spring months, you will receive replies from all of the universities to which you have applied. Each one will state if your application has been successful or not. Additional exam results may be required to secure a place in a conditional offer.

You may also be invited to attend an interview or information session at the university to find out a bit more about what’s involved in your chosen programmes. UCAS will issue you with a deadline by which time you must make your final selection.

You can make additional applications through UCAS Extra from the end of February of the year of entry. Visit [www.ucas.com/students/afteryouapply/extra](http://www.ucas.com/students/afteryouapply/extra) for more information.

**May/June:** You will be preparing to sit your exams and wait for their results, which are published in August.

**August:** You will receive your school exam results and UCAS will inform the universities of your grades on your behalf. If you don’t get the results required for entry to your preferred choice, UCAS will issue you with information about the Clearing process. We have a Clearing website ([www.gcu.ac.uk/clearing](http://www.gcu.ac.uk/clearing)) and a helpline (0800 027 9171 or [enquiries@gcal.ac.uk](mailto:enquiries@gcal.ac.uk)), from the day your exam results are available.

When the university has received your school exam results, you will receive information on joining the university. If you are at college, you must send your exam results to the Admissions Office.

**September:** You will start your course around mid-September for the majority of undergraduate programmes.

## How to apply

At Glasgow Caledonian University, we aim to give applicants and advisers as much support as possible. The following is a selection of frequently asked questions about applying to university.

### **Do universities have their own application forms?**

No, when applying to university in the UK, for full-time undergraduate courses, you must make your application through UCAS – the Universities and Colleges Admissions Service. You must make your application via the UCAS online Apply system. UCAS will forward to your choice of institution.

Remember, you will need the university's code (GCAL G42) and the course code of the programme to which you are applying (you'll find this on the relevant programme page in this prospectus).

### **When do I apply?**

The deadline for UCAS applications is January 15th of the year you hope to start your programme. Applications received after this date will be considered as late.

### **How many choices can I make?**

You can make any combination of up to five choices on your application form. The application fee is £19 or £9 if you are only applying for one programme.

### **I am an international student, how do I enter my qualifications?**

You should enter your qualifications in English through the on-line UCAS Apply system. Send a copy of your certificates, with a note of your UCAS number, directly to the university. Please do not send UCAS original exam certificates or copies.

### **What should I include in the personal statement?**

You should explain briefly your reasons for applying to a particular programme and convey a knowledge and enthusiasm for what the programme involves. Do you have work experience? For certain programmes, particularly career-focused programmes, relevant work experience is essential. Other work experience, such as a part-time job, can equip you with skills such as good communications and teamworking.

Mention your career aspirations. Where do you want to go after graduation? What type of job do you want? Will you want to undertake further study? This should be a unique statement, which you should have written entirely yourself. See the UCAS website for more information.

### **Will the universities know which other institutions I have applied to?**

Each university will only have the details of the course(s) you have applied to at that institution. They will not know your other choices until much later in the application process.

### **What happens after I have submitted my application?**

When UCAS have received your application, they will forward it on to the institution to which you are applying. Admissions staff will consider your application and UCAS will tell you if your application has been successful or not. Each university you have applied to will respond. You will then have to make your choice of a firm acceptance and an insurance acceptance.

### **I'm at FE College, how do I apply for advanced entry?**

The year of entry should be made clear in the 'choices' section of the UCAS Apply online application where it indicates 'point of entry'. When applying to year one of a programme, this box should be left blank. For entry into the second or third year of a programme, you should enter the year in this box. For example, if you are applying to start in Year 2, put 2 in the box.

### **I would like to study part-time. How do I apply?**

Provided you are able to study your preferred programme on a part-time basis, you should apply to the university directly. Visit [www.gcu.ac.uk/study/part-time/degrees](http://www.gcu.ac.uk/study/part-time/degrees) to find out more.

### **How can I apply for deferred entry?**

Some students choose to apply for a university programme one year in advance, with the intention of taking some sort of a 'gap' year before they start. It's always advisable to speak with Admissions staff for advice before applying for deferred entry. You should indicate your deferred entry choice in the 'choices' section of UCAS Apply system, ticking the 'Deferred Entry' box.

### **Do I have to accept the offers made to me?**

If you don't wish to accept any of the other offers made to you, you can decline them. UCAS Extra now allows you to make further choices, if you didn't receive any offers or if you've declined offers made to you, UCAS Extra applications can be made on-line, just like standard UCAS applications. The on-line system also allows you to monitor university responses to the applications you make.





**Contact:**

**Recruitment and Admissions**

email [admissions@gcal.ac.uk](mailto:admissions@gcal.ac.uk)

T: +44 (0)141 331 3334

**SAAS**

T: +44 (0)845 111 1711

**UCAS**

T: +44 (0)870 112 2211

**I have been working for a number of years and have older qualifications which are no longer offered. Are my qualifications and experience recognised?**

We recognise that you can acquire knowledge and skills from a whole range of learning experiences, formal and informal. Our mission to 'provide flexible life-long learning opportunities' to students from a wide variety of backgrounds and at different stages of life means we are pleased to receive your application if you have non-traditional credited or experiential merits. Contact the Recruitment and Admissions Service.

**What's Clearing?**

Clearing takes place in August when all of the exam results have been published. If you haven't managed to secure a university place, clearing information will be forwarded to you by UCAS. You can then apply to institutions that are still accepting applications.

**Can I visit the University to have a look around?**

Most universities hold open days at various times of the year. This gives you the opportunity to meet with staff to discuss your options and to ask any questions you may have. We usually hold our open day during the first or second week in September each year. If you can't attend the Open Day, most universities are happy to arrange for you to visit at a mutually convenient time. Contact [helpline@gcal.ac.uk](mailto:helpline@gcal.ac.uk) if you'd like to arrange a campus tour.

[www.gcu.ac.uk/openday](http://www.gcu.ac.uk/openday)

**“Our 2010 Open Day will take place on Wednesday 8th September 2010, visit [www.gcu.ac.uk/openday](http://www.gcu.ac.uk/openday).”**

## Entry requirements

Your application will be considered by staff in the Recruitment and Admissions Services.

If you have the appropriate qualifications you will receive an unconditional offer of a place. If you need further qualifications you may receive a conditional offer of a place. This will state our requirements in grades, qualifications and subjects required. For example, four B's at Higher including Maths and English is a typical offer. We may decide it is necessary that you attend our Summer School and this would be included in your conditional offer (see page 131).

### What is the UCAS tariff?

The UCAS Tariff is a system that measures qualifications in a numerical format, rather than by As, Bs, or Cs.

### How does the tariff work?

The tariff works by adding up the points a candidate has, based on the type of qualifications they have and the grades they have achieved.

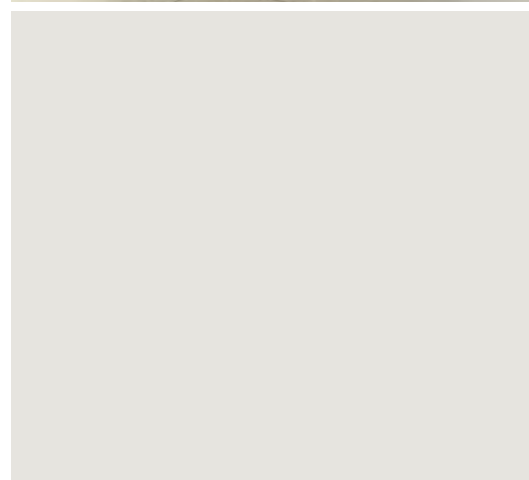
There is no limit to the number of points that a student can accumulate, but applicants cannot count the same or similar qualifications twice, and Standard Grades and Intermediate 2 qualifications cannot be counted. If a subject has been studied at two different levels, the more advanced level will be taken into consideration, i.e. if a subject has been studied at Higher and Advanced Higher, it's only the Advanced Higher which can be taken into consideration. Similarly, for subjects studied at AS and A-Level, it's only the A-Level which will be recognised.

It's also important to remember that if you are using the tariff, you will still have to check for any 'essential' subjects which you must have to fulfil the entry criteria – it's not only the number of points you acquire which will secure you a university place.

For further information regarding the admissions process or the progress of your application, please contact the Admissions Office.

“Glasgow Caledonian is a unique university with a modern feel. It provides a very welcoming environment to people of all backgrounds.”

Arif, 2nd year student





**Contact:**

**The Admissions Office**

E: [admissions@gcal.ac.uk](mailto:admissions@gcal.ac.uk)

T: +44 (0)141 331 3334

**UCAS Tariff**

[www.ucas.ac.uk/students/ucas\\_tariff](http://www.ucas.ac.uk/students/ucas_tariff)

**Disclosure Scotland**

[www.disclosurescotland.co.uk](http://www.disclosurescotland.co.uk)



GCE & VCE Qualifications					Tariff Points	Scottish Qualifications		Irish Leaving Certificate	
GCE & AVCE Double Award	A level with additional AS (9 units)	GCE A level and AVCE	GCE AS Double Award	GCE AS & AS VCE		Advanced Higher	Higher	Higher	Ordinary
A*A*					280				
A*A					260				
AA					240				
AB					220				
BB	A*A				200				
BC	AA				180				
	AB				170				
CC					160				
	BB				150				
CD	BC	A*			140				
					130	A			
DD	CC	A	AA		120				
	CD		AB		110	B			
DE		B	BB		100				
	DD		BC		90	C		A1	
EE	DE	C	CC		80		A		
					77			A2	
					72	D			
					71			B1	
			CD		70				
					65		B		
					64			B2	
	EE	D	DD	A	60				
					58			B3	
					52			C1	
			DE	B	50		C		
					45			C2	
					42				
		E	EE	C	40				
					39			C3	A1
					36				
					33			D1	
				D	30				
					26			D2	A2
				E	20			D3	B1
					14				B2
					7				B3

**Non-academic entry requirements**

Some programmes may ask you to attend an interview or a recruitment event as part of the selection process. If this is required, you will receive a letter inviting you to attend. Our professional health-related programmes will require you to complete a health questionnaire and/or attend a medical check-up. You will receive this information from the University as part of the admissions process.

If you have indicated on your application that you have a criminal conviction, or are applying for a

health-related programme, you may be required to apply for a criminal record check by Disclosure Scotland.

**Mature students**

Mature students (anyone aged 21 and over) may not have to achieve the normal academic entry requirements stated if they can support their application with relevant experience and additional personal qualities.

**EU students**

EU students (from outside the UK) should contact us for information regarding entry qualifications.



**Find out more and apply online****Scottish & EU students**

The Student Awards Agency for Scotland,  
Gyleview House, 3 Redheughs Rigg,  
Edinburgh EH12 9HH  
T: +44 (0)845 111 1711  
www.saas.gov.uk

**English students**

T: +44 (0)845 300 5090  
www.direct.co.uk/studentfinance

**Northern Irish students**

T: +44 (0)845 600 0662  
www.studentfinancenir.co.uk

**Welsh students**

T: +44 (0)845 602 8845  
www.studentfinancewales.co.uk

**Students from outside the EU**

Contact the British Council in your home  
country  
www.britishcouncil.org

**Contact:****The Student Loans Company**

100 Bothwell Street, Glasgow  
T: +44 (0)845 026 2019  
www.slc.co.uk

**Student Funding Team**

Glasgow Caledonian University  
T: +44 (0)141 273 1376  
E: funding@gcal.ac.uk

**Student Loans & Grants Team**

Glasgow Caledonian University  
T: +44 (0)141 331 3248  
E: loans.grants@gcal.ac.uk

**The Moffat Centre**

Glasgow Caledonian University  
T: +44 (0)141 331 8400  
E: info@moffatcentre.com  
www.moffatcentre.com

The funding available to help you through your studies depends on where you live before you come to university. To find out where to get more information and apply, see the column on the far left of the page opposite.

**When to apply for funding**

Applications usually open around March/April. You should apply as soon as you have received an offer of a place at university. Your application will cover your tuition fees, student loan and any other grants, bursaries or supplementary allowances.

**Tuition fees****Scottish and EU Students**

Scottish and EU students studying in Scotland will have all tuition fees (money paid to the university to cover teaching costs) paid directly to the university by the Student Awards Agency for Scotland (SAAS).

**Other UK Students**

If you currently live in England, Wales or Northern Ireland you can apply to Student Finance England, Wales or NI for a fee loan.

**Student loans**

This is a source of money, paid to you, to cover some of your living costs during each year as a student. The amount you receive will depend on your family's income and will be paid to you in monthly instalments over the year. Check the Student Loans Company website for all the information on when you start repayments and how much you'll pay when you graduate.

**Nursing and Midwifery students**

The Scottish Government Health Department will pay your tuition fees. You can apply to SAAS for a non-repayable bursary instead of a student loan. In 2009/10 the bursary was £6,578 per year.

**Health Professions Council (HPC) subjects**

HPC subjects include degree programmes in Radiography, Human Nutrition & Dietetics, Occupational Therapy, Physiotherapy and Podiatry.

UK students studying one of these programmes can apply to SAAS for tuition fees and a means-tested bursary. Students are also eligible to apply for a Student Loan and any other allowances. If you are from outside Scotland, you must apply separately to Student Finance England, Wales or Northern Ireland for your Student Loan.

**Travelling expenses**

If you are funded by SAAS, you can apply on-line for a means-tested contribution towards your travelling expenses in December, each year of your studies.

**Discretionary Funds**

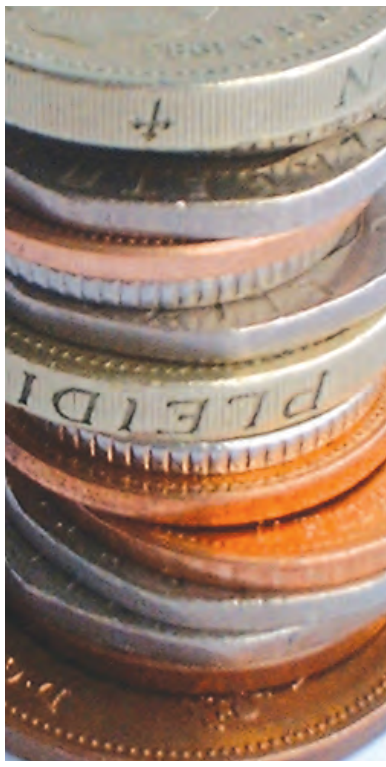
If you have taken out the maximum student loan available to you and are experiencing financial difficulties, you can apply for help from the Discretionary Funds. Contact our Student Funding team for details.

**Childcare**

You may be able to get some help with registered childcare costs from the Higher Education Childcare Fund. If you have unregistered childcare costs, you may be able to get some help from the Discretionary Funds. Contact our Student Funding team for details.

**Moffat Scholarships**

The Moffat Centre for Travel and Tourism Business Development offers scholarships for UK/EU students on programmes in travel and tourism. These are awarded annually based upon academic ability, motivation to undertake a career in the industry and economic need. [www.moffatcentre.com/scholarships](http://www.moffatcentre.com/scholarships)



### Sports Bursary

Designed to assist the University's most talented and promising athletes in developing their sporting potential while studying at Glasgow Caledonian, the Sports Bursary Programme is run in conjunction with Glasgow Caledonian University, Glasgow City Council, the University of Glasgow and the University of Strathclyde. Applicants must have reached or demonstrated a particular level of standard to be considered for the programme.

### Magnus Magnusson Scholarships

Awards of up to £5,000 will be presented to students in their second year upwards. Applications from any discipline and from any part of the University or for almost any kind of proposal that will help individuals to reach their dreams are welcome. However, judges will be especially pleased to receive applications from areas relating to any of Magnus Magnusson's personal interests, including the media, history, language, literature and the natural environment.

### Masterton Undergraduate Bursaries

Masterton Undergraduate Bursaries in Civil Engineering are available to undergraduates in the School of the Built and Natural Environment and will focus on the study of civil and/or environmental engineering. A maximum of three scholarships of £1,000 for each of the four years of study will be awarded annually.

### International Scholarships

Scholarships of up to £1,000 per year are available to overseas students (non-EU) on many of our undergraduate programmes. A further 9% discount is available to overseas students paying their tuition fees in full, prior to the programme commencing.

### Helena Kennedy Foundation Badged award

The Helena Kennedy Foundation has developed the concept of the 'badged bursary' as a means of attracting more students from disadvantaged backgrounds into specific universities, degree courses and areas of employment.

### Round Table Awards for Young Commonwealth Scholars

The Round Table Awards for Young Commonwealth Scholars will be awarded to six students studying at a UK University in 2010-11. Each student will undertake a 3 week study visit to a Commonwealth country as part of his or her existing academic research projects (either undergraduate or postgraduate).

### Winston Churchill Memorial Trust Fellowships

The Winston Churchill Memorial Trust offers you the Opportunity to increase your knowledge and experience through overseas travel in order to benefit others within your community. If awarded a Fellowship, you will receive a grant that will cover all your relevant expenses.

“Applications for funding usually open around March/April. You should apply as soon as you have received an offer of a place at university.”



## International students

As an international student, we will give you a warm welcome at Glasgow Caledonian University. We currently have students from over 100 countries studying with us and are sure that you will find being a student in Glasgow an enjoyable and rewarding experience; culturally, socially and educationally.

If you are interested in studying for an undergraduate degree, you will be offered guidance on the compatibility of your qualifications with our entry requirements and advised if advanced entry to our programmes is possible. The International Office will be happy to offer you guidance before, during and after you apply to study with us.

### Application

All undergraduate applications should be made online to UCAS, the Universities and Colleges Admissions Service (see page 108).

### International Student Services

Our International Student Support Service (ISSS) offers award winning support to international students.

The ISSS organises an orientation programme to welcome new international students to the university. The programme includes a wide variety of events ranging from a welcome day and information fair walking tours and social evenings. Once you enrol as a student, OSSS provides assistance in practical areas including visa and welfare advice and also organises a varied social programme throughout the year.

### Accommodation

All international students in their first year of study are guaranteed a place in university accommodation, provided the August application deadline is met. Turn to page 128 for more information on Caledonian Court or contact our Accommodation Office if you are interested in renting privately in Glasgow.

### Working during your studies

You can work, without obtaining permission, part-time for up to 20 hours a week during term-time and full-time during holidays. The university careers service assist you in your job search.

### Caledonian overseas

Staff from the International Office attend education and training events all over the world. To find out if we're going to be in your area soon, check our website. We also have representative offices across the globe. Contact us to find your nearest office.

### Study Abroad and Student Exchanges

We welcome students from all over the world to come and spend part of their studies with us in Glasgow. If you are a student from another institution outside the UK, there are different ways you can come and study at Glasgow Caledonian University through exchange or study abroad. For further information including our exchange partners please visit our website [www.gcu.ac.uk/studyabroad](http://www.gcu.ac.uk/studyabroad)



### Useful websites

#### UCAS:

[www.ucas.ac.uk](http://www.ucas.ac.uk)

#### UKCISA:

[www.ukcisa.org.uk](http://www.ukcisa.org.uk)

#### British Council:

[www.britishcouncil.org](http://www.britishcouncil.org)

#### Education UK:

[www.educationuk.org](http://www.educationuk.org)

### Contact:

#### International Office

T: +44 (0)141 331 8675

F: +44 (0)141 331 8676

E: [international@gcal.ac.uk](mailto:international@gcal.ac.uk)

[www.gcu.ac.uk/international](http://www.gcu.ac.uk/international)

#### INTO Scotland at Glasgow Caledonian University

T: +44 (0)141 331 8080

F: +44 (0)141 331 8088

E: [intoscotland@gcal.ac.uk](mailto:intoscotland@gcal.ac.uk)

[www.into.uk.com/scotland](http://www.into.uk.com/scotland)







Where no exchange agreements are in place, you can still take advantage of our Study Abroad programme and spend a semester, or year, studying with us. For further information contact [exchangeandstudyabroad@gcal.ac.uk](mailto:exchangeandstudyabroad@gcal.ac.uk)

### English language

Students whose first language is not English are required to provide evidence of English language competence to meet the entry requirements to their chosen programme. INTO Scotland offers foundation programmes and pre-sessional Academic English courses for students who wish to improve their English language skills. The International Office can provide more information about these programmes.



### Minimum entry requirements

- IELTS: Average Score of 6 (with no elements less than 5.5)
- TOEFL: 80 (internet based test)



### Fees

Your fees include all tuition, examination and library costs. If you are a student from the EU or an associated country then you will pay fees at the same level as domestic students. Most students from outside the EU pay overseas fees. If you are unsure about your fee status please contact the International Office for advice.

### Overseas fees (for 2010 entry)

- School of the Built and Natural Environment: £9,500
- Caledonian Business School: £9,500
- School of Engineering and Computing: £10,500
- School of Health: £10,500
- School of Law and Social Sciences: £9,500
- School of Life Sciences: £9,500 - £10,500



A deposit of £3,500 is required when you firmly accept your place on the programme. A discount of 5% is available to students paying their full fee prior to the commencement of the programme. This information is based on 2010 prices. Please consult the website for 2001 prices, deposits and scholarship information

### INTO Scotland at Glasgow Caledonian University

INTO Scotland offers a wide range of academic and English language courses preparing international students for entry to university at a variety of levels. As part of the university, the INTO Scotland courses are fully accredited. The main programmes for undergraduate students include:

- **Foundation programme (first year Scottish degree equivalent):** Designed for international students who have completed high school or equivalent, with good graduation grades, this programme is the equivalent to the first year of a Scottish degree and has pathways in Accounting, Business and Management, Engineering, Computing, Built Environment, Health and Biological Sciences. On successful completion students are guaranteed entry to Year 2 of a range of undergraduate degree programmes at the University.
- **Diploma programme:** Equivalent to studying the second year of a Scottish undergraduate degree, there is currently a Diploma offered in Business and a Diploma in Engineering, Computing or Creative Industries. On successful completion, students are able to enter Year 3 of a relevant undergraduate degree programme.
- **English language courses:** To enter any of the university's programmes, international students must satisfy our English language requirements. INTO Scotland offers a range of English language courses catering for different entry levels, dates and duration. For undergraduate students, these include English for Undergraduate Study, Pre-Sessional English and General English.

### Living expenses

Living in Glasgow is considerably less expensive than living in London, but it is still important to make sure you can pay your tuition fees and still live comfortably during the course of your studies. To help you with this, we've compiled a rough guide to living expenses in Glasgow, which you will see on the right-hand side of this page. Please email us if you have any questions about the cost of living in Glasgow or specific expenses in this country.

### Monthly Expenses:

Accommodation	£275
Heating	£35
Food/Household	£155
Local Transport	£35
Entertainment	£70
Telephone/Postage	£25
Incidentals	£30
<b>Total:</b>	<b>£625</b>

**Estimate of annual expenditure: £7,500** (Additional annual expenses may be required).



## Discover Scotland

By choosing to study in Scotland, you will be joining thousands of other students each year, from all over the world, who choose to live in a country with a worldwide reputation for excellence in education, an excellent quality of life and some of the most breathtaking scenery in the world.

Scotland is known for many things, from the bustling excitement of its thriving and densely populated cities, to the natural beauty of its remote and rugged islands of the North. Its spectacular landscapes with mountains and lochs are unrivalled, making it one of the most beautiful places in the world.

### City life

Glasgow - the largest city in Scotland - is renowned for its cultural and cosmopolitan lifestyle, and the lively capital city, Edinburgh, is world famous not least for its annual International Festival.

There are several cities in Scotland that are well worth a visit and are within easy reach of Glasgow. Dundee, the 'City of Discovery', named so after Captain Scott's famous Antarctic exploration vessel, is a modern and progressive city, north of Edinburgh and close to St Andrews (which is world renowned for its golf courses). Aberdeen, known as the 'Granite City' because of its distinctive appearance and as the 'Oil Capital of Europe', is now a major retail, leisure and cultural centre. Even further north is the capital of the Scottish Highlands, Inverness. Once an ancient fort, Scotland's newest city has much history to tell and is just north of Loch Ness, where the famous monster supposedly resides.







### Natural beauty

Scotland is scattered with charming, characterful villages and stunning nature reserves, many of which surround Britain's largest expanse of freshwater - Loch Lomond. In fact, Loch Lomond and the Trossachs were made Scotland's first National Park in July 2002 and it is here that you will discover some of the most breathtaking scenery in the country.

Scotland has 787 islands, most of which belong to the Hebrides, Orkney and Shetland. Only 130 of them are inhabited, leaving miles of awe-inspiring, unspoilt landscapes to discover.

By choosing to live and study in Glasgow, you'll be in an ideal position from which to explore this fascinating country.

### History

Scotland has a colourful past and there are many famous faces that have emerged from here. Warriors, kings, inventors, sporting heroes, actors, poets, politicians and writers - Scotland has been home to them all.

### Food

You will be able to enjoy traditional delicacies such as haggis, porridge, shortbread and scotch broth (Gaelic for soup).

### Drink

Renowned for whiskies, there are no fewer than one hundred distilleries in Scotland, many of which offer tours where you can sample some of the results.

### Sport

A nation of sport lovers, Scotland has a huge number of football and rugby fans. Fishing and golf are two other popular pastimes.

### Famous Scots

Landmark inventions such as the telephone, antiseptic surgery and penicillin originated from the Scots. Scotland's most famous poet, Robert ('Rabbie') Burns, is celebrated each year with the traditional meal of haggis, neeps and tatties.

### Music, song and dance

From traditional folk music, bagpipes and country dancing to the wide range of up and coming pop and rock bands, vibrant club scene and wide range of influential music - there is something for everyone in Scotland.

### Parliament

Scotland has undergone momentous political change in recent years. Ruled by Westminster since 1707, when the Act of Union disbanded the Scottish Parliament, Scotland regained its own parliament in 1999.

“Scotland’s spectacular landscapes with mountains and lochs are unrivalled, making it one of the most beautiful places in the world.”



## Study Abroad and Student Exchanges

A study exchange is a unique chance to live and study in another country. It allows you to make new friends, experience a different culture and develop a greater sense of self-awareness, confidence, independence and maturity.

It enables you to experience a new teaching and learning environment, broadening your academic experience and introducing you to new perspectives and areas of study.

Exchange opportunities are open to both part-time and full time undergraduate students in year two or three depending upon your programme of studies.

Our overseas exchange programme allows you to spend either a semester or an academic year studying your chosen specialism in English at universities in Australia, Canada and USA. For an overseas exchange you will need to pay for a visa, travel, accommodation and living costs. You will not need to pay tuition fees to the overseas university and you will still be eligible to receive any grant or loan to which you are normally entitled.

### By studying abroad you can:

- Have a fun and challenging experience.
- Enhance your job opportunities by making your CV really stand out from the rest.
- Meet a wide variety of people and make an international network of friends and future professional contacts.
- Acquire invaluable life skills as well as greater independence and confidence.

### The European Erasmus Exchange Programme

Erasmus enables the free movement of students between similar university departments and programmes across Europe.

The University currently has a range of agreements with equivalent institutions in the following countries: Belgium, Czech Republic, Denmark, Finland, France, Germany, Iceland, Italy, The Netherlands, Norway, Poland, Portugal, Romania, Slovenia, The Slovak Republic, Spain, Sweden and Turkey.

Many of our partners teach classes in English and there are options to take Intensive Language Courses for certain languages in advance of any exchange activity. Under the Erasmus scheme, you will be eligible for funds to help you with your travel and living costs abroad.

For further information, please contact the Exchange and Study Abroad Team at the International Office:  
[www.gcu.ac.uk/study/studyabroad](http://www.gcu.ac.uk/study/studyabroad)

“My time on exchange was the best time of my life - I will treasure it forever.”

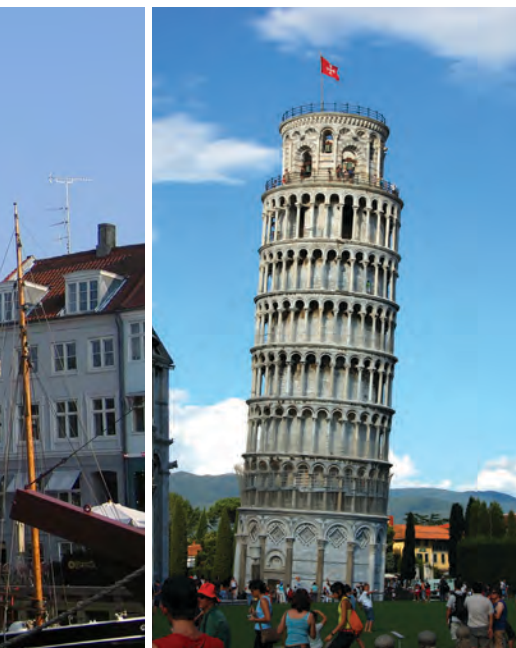
Alisdair, Kosice, Slovakia 2008-09  
BA International Product Design



“It’s has changed my life in so many way, all of them positive. It’s good to know that the world is not as big as it seems from this small island.”

Scott, Joensuu, Finland 2008-09  
BA International Product Design

## Add a language to your degree



If you would like to study French, German, Spanish or Italian as part of your degree, our partnership with Central College gives you a broad range of opportunities to improve your linguistic skills.

The main aim of our language classes is to enable students to develop general language skills (spoken, listening and written) which will be of benefit in both working life and social situations. Our teaching will also give you a sound knowledge of relevant aspects of the contemporary society of the country in question. Learning a foreign language helps develop communication, presentation, negotiation and problem-solving skills and can improve your employability after graduation.

Classes will be delivered by a team of seven experienced language teachers, using the latest digital technology, in Central College, just a few minutes walk from campus.

Language modules are offered in French, German, Spanish and Italian at six levels:

- **Introductory:** Requires little or no prior knowledge
- **Preliminary:** Language Introductory, Standard Grade or equivalent as starting point
- **Intermediate:** Language Preliminary, Higher Grade or equivalent as starting point
- **General:** Language Intermediate or equivalent as starting point
- **Professional:** Language General or equivalent as starting point
- **Advanced Language for Business:** Language Professional or equivalent as starting point.

Languages lecturers are happy to advise students on the most suitable level of module for their individual circumstances and programme requirements.

### The programmes

Competence in a foreign language is seen as valuable in many areas of professional life. Students from a wide range of Glasgow Caledonian programmes access language options, including degrees in:

- Business Law
- Fashion Business
- Fashion Marketing
- LLB
- International Business
- International Travel and Tourism Business
- Marketing
- Media and Communication
- Psychology
- Risk Management
- Social Sciences
- Sport and Active Lifestyles Promotion

#### Contact

**Rhona Hodgart,**  
Exchange and Study Abroad Team  
T: +44 (0)141 331 8270

**Debbie Colquhoun, Exchange and Study Abroad Team**  
T: +44 (0)141 331 8288  
E: exchangeandstudyabroad@gcal.a.cuk

**Moira Ball, Central College**  
T: +44 (0)141 271 6341  
E: moira.ball@central-glasgow.ac.uk

**Paul Mohr, Central College**  
T: +44 (0)141 271 6355  
E: paul.mohr@central-glasgow.ac.uk

**Lionel Qnidn, Central College**  
T: +44 (0)141 271 6288  
E: lionel.qnidn@central-glasgow.ac.uk

# Studying at Glasgow Caledonian University

If you're new to university, getting used to your studies and to university life can take a bit of adjustment. During your degree, your timetable will be made up of a combination of lectures, seminars, labs and practical work, not to mention time for independent study. This page provides a rough guide to what to expect when starting your degree programme.

## Hours in a normal week

Hours of work vary from programme to programme, however you will be surprised how flexible your timetable can be. There will be days where your timetable is completely full as well as days when you have very few, or no classes at all.

As university is much more focussed on independent study, you should aim to spend much of the time when you're not in classes studying.

## Lectures

Styles of lecture vary, however they are designed to provide an initial introduction to the various topic you are studying. Whilst it is not impossible to ask questions, with up to 200 people in the room, you are usually expected just to listen and take notes whilst the lecturer speaks. Lectures usually last an hour.

## Seminars

A seminar (sometimes called a tutorial) is designed to expand on the topic that is introduced in the lecture. Styles of seminar can, again, vary dependent upon the subject covered. However, there are always a relatively small number of students (approximately 12) and you are free to raise questions and discuss issues covered by the lecture. In some cases, you may be asked to prepare a paper or presentation that will be used to start the discussion.

## Labs

In subjects such as engineering, science and computing, you will receive tuition in laboratories using either IT or other equipment necessary to learn the subject. This will, almost always, be done in a small group, using high technology equipment under the supervision of trained staff.

## Assessment

Your learning is assessed using a combination of coursework and examinations. During each semester, your performance in your coursework will allow you to demonstrate your grasp of the subject outwith exam conditions. Coursework can take the form of essays, written assignments or practical work in labs. These will then count towards your final overall score in a subject (e.g. coursework might be worth 30% and examination worth 70% of the final grade).

Unseen examinations may be very familiar to you, especially if you have just left school. However, using past papers as a guide to your strengths and weaknesses is helpful and good exam techniques are a vital ingredient to success in your studies.

## An academic year

One of the biggest changes will be the way your studies are structured throughout the year. Both the pace, and the intensity, of your learning will surprise you. Remember, though, that a great deal of encouragement, support and guidance is available to you throughout your studies.

“The courses I have taken encourage you to find your own way of studying and use it to your advantage.”

Nia, 2nd year student







### Modules

Within each semester you will usually complete three modules. Each module will cover a specific topic, most of which are compulsory parts of your programme. However, as you get beyond Years 1 and 2 of your programme, you will be given more options to choose from in terms of the modules you can study.

To complete a module, around 175 hours of work is necessary prior to your exam. Half of this time will be spent in class and the other half spent in private study or research in the library. At the start of each trimester you will be given a timetable for classwork and can decide when it is most appropriate for you to study privately.

### Academic Year

- **Trimester 1:**  
13th September 2010 - December 2010\*
- Level 1: 12 weeks and 3 days
- Exam diet: 1 week
- Level 2,3,4 & M:  
11 weeks and 3 days
- Exam diet: 2 weeks
- Winter break (all levels): 4 weeks
- **Trimester 2:**  
January 2011 - April 2011
- All levels: 12 weeks
- Spring break: 1 week
- Exam diet: 2 weeks and 4 days
- Intermission trimester break:  
3 days
- End of Undergraduate teaching
- **Trimester 3:**  
May 2010 - August 2010
- 14 weeks and 2 days
- Undergraduate re-sit diet 2 weeks
- Intertrimester break 2 weeks

\* except for nursing and midwifery programmes.



## Learning resources

Glasgow Caledonian University provides one of the best learning environments in the UK at our modern campus in heart of Glasgow.

### The Saltire Centre

The Saltire Centre is a state-of-the-art facility designed to support your learning while you study. It is home to the University library which includes over 350,000 books. Gaining access to over 12,000 journals is easy – and most of them are also available online. On any floor with an exit you will find a ‘self-issue and return’ point or, alternatively, students can visit the loans desk at The Base.

With 1,800 study spaces, the Saltire Centre gives you plenty of room to learn and it offers 500 computers for student use. A wireless network means you can use your own laptop anywhere in the building, or borrow one of the 150 University laptops available to everyone.

The differently - designed areas of the centre mean that you can take advantage of noisy social interaction areas for group work, but also settle down to silent study on the upper floors. The open-plan learning spaces are similar to modern office environments, which will help you to prepare for moving into a professional environment after graduating. The Saltire Centre is also wheelchair friendly throughout, with software and technology for students with learning or physical disabilities available in a central location.

On the lower floor you’ll find many other facilities that you may need as a student, including careers guidance, funding information, our counselling service, academic registry, disability services, international advisory support, the chaplaincy and the nursery. Saltire Centre staff are very friendly and open and will be happy to help you find the information or support you require.

### Continuing Professional Development Centre

One of our latest additions to our campus, the Continuing Professional Development (CPD) Centre opened its doors in early 2007, offering a flexible space for both business and study. In addition to providing modern, state-of-the-art seminar rooms for students, the high-tech conference space offers facilities for local, national and international businesses and organisations.

### Real Learning Cafés

Our Real Learning Cafés can be found on the ground floors of both the Saltire Centre and the Continuing Professional Development Centre (next to John Smith’s campus bookshop). Both are ideal for some relaxed study; you can go online, work on essays or just have a coffee or snack and catch up with friends.

### Effective Learning Service

Our Effective Learning Service (ELS) is here to help you cope with the practical aspects of your new workload and achieve your academic potential. Wondering how to take helpful lecture notes or structure an effective essay? What about projects, dissertations, oral presentations and preparing for exams?

We offer workshops designed to address these issues and more, and with additional face-to-face and online support and handouts on the various study skills, we are here to assist. Feel free to make an appointment or drop in to see us in the Saltire Centre for an advisory chat.

Free in-session academic writing and speaking English classes are run throughout the academic year. Please contact the ELS or visit the website for details: [www.gcu.ac.uk/els](http://www.gcu.ac.uk/els)







“The Saltire Centre provides not only a fantastic and unique study space, but also a nice environment to catch up with friends between classes.”

[Sarah, 1st year student](#)



### Information & Communications Technology (ICT) Support

Information & Communications Technology (ICT) is a powerful tool which you will use as a new student. You can get help and advice in using the IT facilities at your disposal from the ICT Skills Unit. The ICT Skills Unit also has a non-compulsory module which you can undertake to gain recognition for basic IT achievement.

For full details visit: [www.gcu.ac.uk/student/ictskills](http://www.gcu.ac.uk/student/ictskills)

### IT facilities

During trimester you have access to computers throughout campus seven days a week. These can be found in the Saltire Centre, learning cafés, specialised teaching labs and many other locations across the campus.

Off campus you can log onto your webmail account, ‘my.caledonian’, to access university information, exam results and to apply for modules. ‘my.caledonian’ keeps you on top of lecture notes and lets you know if your timetable changes. It’s also an ideal discussion forum for any points you want to bring to others attention.

You may also find that your programme is supported by our virtual learning environment ‘Blackboard’. Similarly, this system is ideal for accessing learning material, staying up to speed with classes and keeping in touch with lecturers and other students.

### Subject librarians

The Saltire Centre’s subject librarians work in teams and can:

- help you find information for coursework and dissertations
- show you which databases to use and how to use them
- show you how to use electronic journals and books
- tell you about library services.

You can contact them directly by email or phone, at a drop-in session, or through The Base enquiry desk in the Saltire Centre. For more information visit: [www.gcu.ac.uk/library/librarians](http://www.gcu.ac.uk/library/librarians)

### John Smith’s Bookshop

For most degree programmes, you’ll have to buy some essential text books and John Smith’s Bookshop, located on campus, is the ideal place to go. The shop is open throughout the week between 9am and 5pm. If they don’t already have the book you need in stock, it can be ordered in for you. There’s also a second-hand service available, where you can get cash back for unwanted text books. A list of titles is available in store. [www.johnsmith.co.uk/caledonian](http://www.johnsmith.co.uk/caledonian)

### Support for your studies

You’ll find your time as a student new and exciting but, if you discover any aspect of your studies or of university life difficult or daunting, don’t worry. We have expert staff and facilities on campus to provide any support you may need. You only have to ask and the help you’re looking for will be provided by staff who can give you friendly, useful and impartial advice.

“The facilities are excellent and, most importantly, accessible to all”

[Scott, 3rd year student](#)



**Contact****Academic Registry**

[www.gcu.ac.uk/registry](http://www.gcu.ac.uk/registry)

**Admissions**

E: [admissions@gcal.ac.uk](mailto:admissions@gcal.ac.uk)

T: +44 (0)141 331 3334

**Student Records**

E: [studentrecords@gcal.ac.uk](mailto:studentrecords@gcal.ac.uk)

T: +44 (0)141 331 3338

**Student Loans and Grants**

See page 118

**Examinations Office**

E: [exams@gcal.ac.uk](mailto:exams@gcal.ac.uk)

T: +44 (0)141 331 3336

**Graduation and Awards**

E: [graduation@gcal.ac.uk](mailto:graduation@gcal.ac.uk)

T: +44 (0)141 331 3200

**Chaplaincy**

T: +44 (0)141 331 8576

**Careers Service**

T: +44 (0)141 273 1000

**Disability Service**

E: [disability@gcal.ac.uk](mailto:disability@gcal.ac.uk)

T: +44 (0)141 273 1371

**Effective Learning Service (ELS)**

E: [els@gcal.ac.uk](mailto:els@gcal.ac.uk)

T: +44 (0)141 273 1372

[www.gcu.ac.uk/student](http://www.gcu.ac.uk/student)

**John Smith's Bookshop**

E: [gc@johnsmith.co.uk](mailto:gc@johnsmith.co.uk)

T: +44 (0)141 332 8778

[www.johnsmith.co.uk/caledonian](http://www.johnsmith.co.uk/caledonian)

**Library Services**

T: +44 (0)141 273 1000

**Mental Health and Wellbeing Service**

T: +44 (0)141 273 1393

E: [positiveliving@gcal.ac.uk](mailto:positiveliving@gcal.ac.uk)

**Nursery**

T: +44 (0)141 273 1000

**Summer School**

E: [summerschool@gcal.ac.uk](mailto:summerschool@gcal.ac.uk)

T: +44 (0)141 273 1273

**Scottish Wider Access Programme (SWAP)**

T: 0800 731 0949

[www.scottishwideraccess.org](http://www.scottishwideraccess.org)

We provide ourselves in offering our students award-winning support through a wide variety of services.

**Academic Registry**

The Academic Registry is responsible for all matters of the governance of the University. This includes important issues such as admission and registration on to your programme, assessment regulations, appeals and graduation.

The Academic Registry desk is located on the ground floor of the Saltire Centre, next to the Base. Get in touch using the contact details listed opposite, or drop by our desk in the Saltire Centre, if you have any questions about registration, your student record, matriculation card, student loans, confirmation of student status letters, ILA, attendance, assessments and graduation.

**Careers Service**

Even if you're just beginning your degree, it's never too early to contact the Careers Service. We're here to help you plan your career every step of the way. The careers consultants are professionally trained to provide careers guidance and advice about: graduate employment, work experience and part-time jobs; successful CV's, applications and interviews; taking a year out; further study options; sourcing careers information.

Visit our website to search for a job through over 500 vacancies, sign up for employer presentations and career events, read the latest news and blog posts as well as accessing specific links and information for your course.

**Chaplaincy**

We have a team of visiting chaplains from several denominations, including a chaplain to our international students. Christian worship is offered regularly and prayer rooms are provided for Muslim students. Our chaplains provide spiritual and pastoral care for you and can put you in contact with places of worship for the major religious groups in Glasgow. Contact our chaplaincy for more information.

**Childcare**

If you're a full-time undergraduate with pre-school children, then you're entitled to financial help with childcare costs. We have a nursery on campus for children from six weeks old to pre-school. There are only 25 student places so it's best to let us know as early as possible of your needs. Should the nursery be full, our staff will be more than happy to help you find other suitable childcare facilities and advise on available funding (see page 118 for further details).

**Disability Service**

We welcome and encourage applications from students with disabilities. It's our aim to make sure you can access your programme and participate in university life as equally and actively as possible, through flexible teaching and assessment, and by improving access to buildings and technology.

For advice and support we encourage you to make contact with our Disability Service. Staff will be available to answer any questions you may have and help you find out more about the support services on offer. We can assist in organising needs assessments and in making you aware of financial assistance.



### Mental Health and Wellbeing Service

The Mental Health and Wellbeing team are here to help you with any emotional difficulties from homesickness to longer term issues. We work closely with other Learner Support teams, the NHS and other public services, so are happy to recommend ways of improving your overall wellbeing. The service works on a drop-in basis on Wednesday mornings and Thursday evenings. Appointments for initial single sessions can be arranged at short notice. All calls are welcome and enquiries and sessions are confidential.

We provide short intensive programmes of study in Biology, Chemistry, Maths, Physics and English. Regular attendance is essential as each programme consists of short units of study and you will be assessed at the end of each unit. Our Adult Return to Study and induction programme for direct entry students are both designed to help you develop core skills essential for success.

For any further information or for information and advice on travel, accommodation and childcare support, staff in the Summer School office will be happy to help.

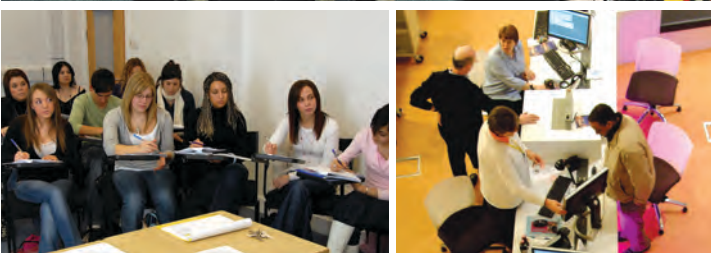


### Personal tutor

When you begin your degree, you will be assigned your own personal tutor. If you have any academic issues, they will be on hand to talk things through, offer advice and point you in the direction of our many support facilities.

### Widening Access

At Glasgow Caledonian, we welcome students from a variety of different backgrounds, providing opportunities and encouraging applications in a number of ways. We are actively involved in working in schools to raise awareness and encourage participation in Higher Education through West Forum Projects and the Caledonian Club.



### Scottish Wider Access Programme (SWAP)

If you don't have the normal entry requirements for degree level study, successful completion of an Access programme can guarantee you entry to specified degree programmes at college or university.

We have formal links with Further Education colleges and offer induction programmes to ease the transition between college and university. If you don't have the relevant qualifications for entry, we can direct you to SWAP access programmes or Summer School programmes. If you don't have the traditional entry requirements (such as Highers or A Levels) you may be still be able to provide proof of your ability to study through our systems designed to assess prior experiential learning and, where appropriate, to award credit for that learning (APL).

### Summer School

Summer School offers a variety of courses designed to prepare you for entry to your chosen degree programme and for university life. Usually, you will be referred to a Summer School programme by admissions and your place is guaranteed. You can also choose to opt-in if you feel that you need to brush-up on essential knowledge or skills and this can be agreed with your admissions tutor.



# Students' Association

The Students' Association offers plenty of opportunities for you to get involved in a wide range of activities, try new things and meet new people. Many of the activities we offer look great on your CV and help improve your employability after you graduate.

University life isn't only about lectures, studying and exams. So, when you're having a break from the books, getting involved in the Students' Association is the ideal way to let off steam and lets you make the most out of your Caledonian experience.

On starting at Glasgow Caledonian University, you will get to meet with the Students' Association straight away and find out about all we do and how you can get involved. At the beginning of term is Freshers' Week, where we organise and support entertainment on campus, give lots of welcome talks and run 'Give it a Go' sessions for students to sample some activities and make new friends.

## Societies

Societies are a great chance for you to meet like-minded folk. There are a number of societies covering a wide range of areas including faith, hobbies, music and course-based activities. Below are just a small number of the societies you will be able to join:

- Christian Union
- CUMSA (Muslim Students Association)
- International Students
- Law
- Occupational Therapy
- Paintball

For a full list of all societies currently running at GCU and for information on how to start a new society, visit: [www.caledonianstudent.com/societies](http://www.caledonianstudent.com/societies)

## Representation

We are here to represent you and make sure you get the best student experience at Glasgow Caledonian University but also to make your time with us as enjoyable, memorable and as rewarding as possible.

The Association is run by elected students for students. You have a say in who you want to elect you every February by voting in the Executive Committee elections. You could even run for election yourself one day!

## Caledonian Student Parliament

Caledonian Student Parliament is the main way for students to tell the Association what they want us to campaign about and how we should operate. It's also the body that tells the elected student officers what they should be doing and holds them to account. The meetings happen six times across the academic year. The more diverse Student Parliament is, the better we can represent all students across campus.

## Student reps

You could help to improve other students' learning experience by becoming a student representative and representing their views on a variety of committees. We support training and it's a great way to pick up new skills and meet people outside of your course. Student reps also get to participate in the Annual Student Summit and Caledonian Conference.

## Sports

Our sports clubs cater for all levels from beginner to elite athletes, so you're bound to find something to suit your needs.

If you are a sports club member, you'll have access to subsidised competition, coaching, first aid courses, equipment, training events, free entry to all fitness classes in the Arc (the sports centre) and much more.

Sporting clubs include:

- Athletics
- Badminton
- Basketball
- Cheerleading
- Cricket
- Fencing
- Football
- Golf
- Gymnastics
- Hockey
- Horse Riding
- Kayaking
- Mountaineering
- Muay Thai Boxing
- Netball
- Rowing
- Rugby
- Skiing
- Snowboarding
- Swimming
- Table Tennis
- Tae Kwon Do
- Tei Karate
- Tennis
- Trampolining
- Volleyball





“If you’re looking for a great experience where you will become independent, make loads of new friends and learn lots too then Caledonian is the perfect university.”

[Katrina, 2nd year student](#)

#### Contact

##### Students' Association

T: +44 (0)141 331 3886

##### Welfare Service

T: +44 (0)141 273 1612

#### Volunteering

Why not get involved in something outside your course and take part in volunteering activities? Find out more at: [www.caledonianstudent.com/volunteering](http://www.caledonianstudent.com/volunteering)

**Student Welfare:** Receive professional training and help the Students' Association Welfare Department to promote health and well-being to fellow students. Previous campaigns have included Sexual Health & Guidance, Alcohol Awareness, Stress Management and Personal Safety. Become a Raising & Giving (RAG) Volunteer

**Student magazine:** Join the Re:Union Editorial Team to write and edit the monthly student magazine or become a Re:Union writer – a great way to hone your communication skills.

**Campus radio:** Join our new campus radio station, Radio Caley and gain new skills. There are many opportunities for you to get involved, including presenting, advertising, marketing, music and gig reviews, news and features and much more.

**Nightline:** Nightline is a confidential student listening and information service which offers support to students throughout the night. It runs from Monday to Thursday, 7pm to 7am, during term time. The number is on the back of your matriculation card. Nightline recruits at the beginning of each semester for new volunteers.

#### Independent Support and Advice (Welfare Department)

The Welfare Department provides a free non-judgemental and confidential service to all Glasgow Caledonian Students. Welfare exists to help students obtain accurate information on all the services and rights to which they are entitled and to provide support, mediation, advocacy and representation, where appropriate. We provide advice, guidance and support on academic regulations including appeals, special factors and student disciplinarys. You can also find out information on accommodation, employment rights, financial worries and exam stress.

For more information on the independent support the Welfare Department provides visit or phone one of our Welfare Advisers on: 0141 273 1613 or 1609.

#### Get involved in the Student Leaders programme

By taking up a representative or voluntary role within the university, students are eligible to join the Student Leaders programme.

The programme teaches and develops leadership and communication skills such as public speaking, leadership, assertiveness, time management and employability. Developing these skills will help students stand out from the crowd and can be applied while at university and beyond. In addition, improving these skills will increase students' attractiveness to employers upon graduation.

There are three levels to complete: Bronze, Silver and Gold. On completion of each level, students receive a certificate presented by the Principal and the Student President at the annual Awards Ball.

## Accommodation

On starting at Glasgow Caledonian situated just across the road from our campus, Caledonian Court is a stone's throw from the hustle and bustle of the University.

Perfect for those early morning lectures, you can roll out of bed at five to nine and still be in the classroom in time for your first tutorial. You will be spoilt for choice with all the city centre has to offer so close at hand.

Our modern, self-catering accommodation, consisting of 100 flats, houses 660 students. Each self contained flat has six to eight bedrooms and a fully equipped kitchen, complete with crockery and utensils. Private en-suite facilities are available in 340 rooms and most rooms are single, with only a few twin rooms. Internet connection is included and there is a coin operated-laundrette on site.

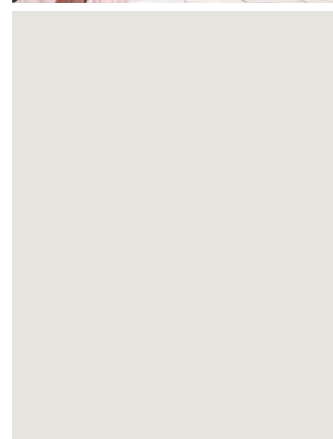
Car parking is limited, but you will find the city centre is well served by public transport – trains, buses, underground and taxis. The airport is only twenty minutes drive from the centre of Glasgow, too. There are lots of other handy facilities and amenities on the doorstep. The Arc (the gym and health and fitness centre), several cafés and campus shops are all within minutes of each other.

We understand that moving away from home can be a huge step, so during your first few weeks living at Caledonian Court, the Accommodation Office staff are on hand to do everything possible to ensure you settle in comfortably and can help you resolve any difficulties you may experience. The office is in the heart of the complex and staff are always available on site throughout your stay to offer any reassurance, advice or support you may need.

Students who prefer to stay in private accommodation can also find information and guidance at the Accommodation Office.

Security staff are on duty 24 hours a day, every day, and all buildings have controlled entrances with 24/7 CCTV monitoring in operation over the whole campus.

Living at Caledonian Court is an ideal way to make friends with people from all over the world. The international community includes students from places as far afield as Nigeria, China, Greece, France, Germany and America, providing a cosmopolitan environment to enhance your experience at Glasgow Caledonian University.







“I met so many amazing people and made some fantastic friends living in Caledonian Court. It was the best possible way to start life at university.”

Ruairidh, 2nd year student

#### Entertainment

During Freshers' Week there is a full programme of events including film nights, quiz nights and parties. This is your opportunity to meet new friends and neighbours who will accompany you on the journey through university life and beyond. Once the initial 'getting to know you' stage is over, you'll have a ready-made group of friends to share the experiences of Glasgow's wide variety of amenities and entertainment. Since you'll be living right in the heart of the city, the best of Glasgow's world famous shops and nightlife are only a short walk away. If you want to visit places farther afield, a weekly bus pass costs about £14 and will get you to the surrounding areas of the city and the hub of the west end.

#### Costs

For up-to-date information, contact the Accommodation Office or visit our website. Rent for a fully furnished room in a well equipped flat includes the cost of heat, light and power. Students are currently exempt from council tax. As a guide, fees for 2010 were approximately £76 - £87 per week for a full session in residence, from September to June.

#### Availability

We would like to offer accommodation to everyone who applies to stay at Caledonian Court, but there are always more applications than rooms available. It is therefore advisable to apply for a place as soon as you can – immediately after you have accepted an offer of a place on a programme. No matter what your situation, you can apply from Easter onwards. Priority is based on criteria such as where you live, age, special needs or international status.

#### Private accommodation

Some students prefer independent living and want to find private accommodation close to the university. Rent varies depending on the area and type of accommodation, from flats to houses. You can expect to pay anything from £250 a month and you should budget for bills on top of this. The rental market in Glasgow is extremely busy during the summer with other students joining the various colleges and universities throughout the city, so we advise that you start flat hunting as soon as possible. You are welcome to drop into the Accommodation Office at Caledonian Court for advice and information about PAD (Private Accommodation Database) which operates between the Higher Education Institutions in Glasgow. The Students' Association is also a useful contact.

“For more information about accommodation, visit [www.gcu.ac.uk/accommodation](http://www.gcu.ac.uk/accommodation)”



## Sports and leisure

Arc is the University's recreation and health centre. It was funded in part by the sportscotland lottery fund, in support of our aim to increase physical activity levels amongst the whole community.

### Healthy body, healthy mind

Looking after yourself doesn't have to be hard slog - it can be enjoyable, sociable, relaxing and energising. It is our aim to make sure that regardless of age, fitness level, body shape or previous exercise experience, you are at your ease when using our facilities.

Arc isn't about 'fitness fanatics' and perfect physiques, it's a place that everyone can use to look after their health. You don't have to be a student at Caledonian to use Arc so you are welcome to bring non-student friends or family along to keep you company.

### Group fitness classes

Whether you want to push yourself to the limit or take things at an easier pace, there's a range of classes for you to try. These include Indoor Cycling, TTB, Body Pump, Circuit Training, Boxercise and Body Attack. All of the classes cater for people of different abilities and fitness levels, although overall some are a little easier than others!

### Arc sports clubs

Sports club activities include Table Tennis, Badminton, Muay Thai Boxing, Karate, Basketball and many more indoor games and martial arts. You can also book the halls to play sports, including 5-a-side football and badminton, on a more casual basis.

### The gyms

The upper gym area is designed primarily for beginners and includes stretching and relaxation areas, light free-weights and a range of indoor bikes, cross-trainers and other cardiovascular and resistance exercise machines. The downstairs gym area is geared more towards intermediate and advanced exercisers and you'll find a good selection of Olympic weights as well as dumbbells and modular resistance training equipment.

### Health and beauty treatments

As well as the opportunities for becoming more physically active and benefiting your overall health, we provide an on-site salon where you can relax and treat yourself to a bit of pampering. Hairdressing and various beauty therapies are available as well as Therapeutic Massage treatments.

### Membership

There are a number of different membership options (although, if you prefer, you can 'pay as you go'). Students are entitled to buy a low cost gym and sports membership package which gives you membership of Arc as well as all the different sports clubs and activities organised by our Students' Association. These include outdoor pursuits, such as hillwalking and canoeing and other sports such as rugby, hockey and swimming which don't take place in Arc itself.

### Sports Bursary programme

Students who are endeavouring to train and compete at a high level in competitive sport whilst studying may apply for a place on the Sports Bursary programme. This is designed to support successful applicants in combining their academic work with pursuing their chosen sport.





#### Contact

##### Arc

For more information or if you have any questions about recreation and health in general, please drop in and speak to Arc staff or visit: [www.gcu.ac.uk/arc](http://www.gcu.ac.uk/arc)

##### Opening times

Monday: 07.30 - 20.30  
 Tuesday: 07.30 - 20.30  
 Wednesday: 07.30 - 20.30  
 Thursday: 07.30 - 20.30  
 Friday: 07.30 - 19.30  
 Saturday: 10.30 - 16.30  
 Sunday: 10.30 - 16.30



## Student enterprise

At Glasgow Caledonian University, we are committed to unlocking the enterprise potential of all of our students. We know that a great degree is only a beginning for our students and that in order for our graduates to compete in globalised employment market, our students need to demonstrate a wide range of personal skills and attributes. These can be allied to enterprising experiences gained at university, which make them attractive to employers or consider self employment.

Employment opportunities are enhanced by developing a range of enterprise skills and attributes ranging from enterprising attitudes, skills and behaviours through to the practical skills for entrepreneurship including:

- Developing the tools to take an idea forward
- Conducting market research
- Securing funding
- Making a business pitch
- Effective networking and forming business relationships.

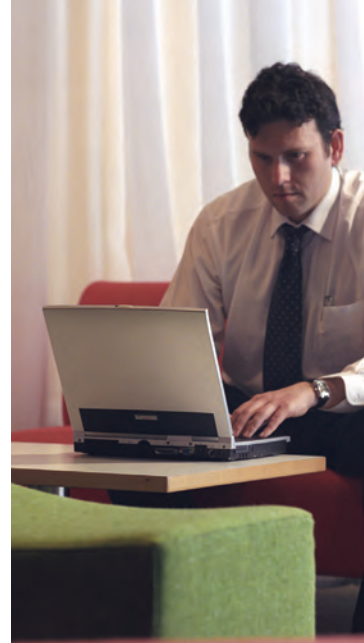
In conjunction with the Scottish Institute for Enterprise (SIE), we encourage student enterprise and motivate students to exploit business and social ideas. You can get involved in student enterprise through a range of enterprise events such as challenges and business plan ideas competitions, and 'the Brightest Crayons' which is our student enterprise society. We help our students to stand out from the crowd by developing dynamic, enterprising individuals who bring creativity and innovation to their companies.

### The Brightest Crayons

The Brightest Crayons - GCU Enterprise Society is run by Caledonian students who want to take that wee bit extra from their university life. This student society runs fantastic free events to encourage and educate budding student entrepreneurs and to meet the organisations in Scotland who can help you start a business. If you want to meet and be inspired by famous and/or young entrepreneurs who are actually 'doing the business', come along.

### New Ideas Competition

Together with the Scottish Institute for Enterprise (SIE), the University runs the New Ideas Competition. This is aimed at students or recent graduates of Scottish universities who have a business idea and would like to turn it into a business or social enterprise. Entrants are offered a high degree of assistance and support to develop their idea and the competition culminates in a 'Dragons' Den' where students pitch their ideas to business leaders. The winners at Glasgow Caledonian University will then be submitted into the national competition conducted by SIE. This could be the little step forward that turns a bright idea into great business. Visit [www.sie.ac.uk](http://www.sie.ac.uk)



#### Contact

##### Student Enterprise activities

E: [startfromscratch@gcal.ac.uk](mailto:startfromscratch@gcal.ac.uk)

##### The EDGE Programme

E: [edge@gcal.ac.uk](mailto:edge@gcal.ac.uk)

##### Declan Jones,

Director of Student Enterprise

E: [declan.jones@gcal.ac.uk](mailto:declan.jones@gcal.ac.uk)



## Graduation and beyond

Graduation is the culmination of all your hard work and years of study. It is also a day when you and your family and friends get together and celebrate your success. It is the day when you can say 'I've done it'.

The Graduation and Awards Ceremony takes place in the prestigious Glasgow Royal Concert Hall.

Our Chancellor, the Rt Hon Lord Macdonald of Tradeston, presides over the graduation and award ceremonies which take place in July and November each year. At each of the ceremonies he caps each student to formally mark their graduation from the University. Around 4,000 students graduate from the University each year and we have a number of famous honorary graduates including Sir Jackie Stewart, Dr Nelson Mandela, Sir Richard Branson, Sir Alex Ferguson, Sir Ranulph Feinnes, Duncan Bannatyne and Prof Muhammad Yunus and to name a few.

Whilst your graduation ceremony marks the end of your studies, it does not necessarily mean the end of your relationship with either the University or friends you made here. The Alumni Relations Office is here to maintain your interest and involvement well beyond graduation. We are interested in following your progress throughout your working life - after all, our graduates are the University's best possible ambassadors.

To maintain this link, we co-ordinate a range of activities, including organising reunions, tracing old friends and encouraging alumni back on campus to use our facilities. We also publish a biannual alumni magazine and send out regular newsletters to keep you up to speed with your university.

Many of our alumni have achieved both professional and personal success in a variety of areas. Some of our most successful graduates have represented their country and have achieved Gold medals at the Olympic Games, are members of the Scottish Parliament, company chief executives and managing directors. Our annual Alumni Achievement Award recognises these successes as well as celebrating the contributions our alumni have made to society.

Following your graduation, you will be welcomed into the growing family of Glasgow Caledonian University Alumni. Please visit personally or virtually at [www.gcu.ac.uk/alumni](http://www.gcu.ac.uk/alumni) or find us on Facebook.



**Above Right:** Professor Muhammad Yunus  
**Left:** Duncan Bannatyne

### Contact

#### Mansoor Ali

Alumni Relations Officer  
T: +44 (0)141 331 8769  
F: +44 (0)141 331 8685  
[www.gcu.ac.uk/alumni](http://www.gcu.ac.uk/alumni)



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### Campus

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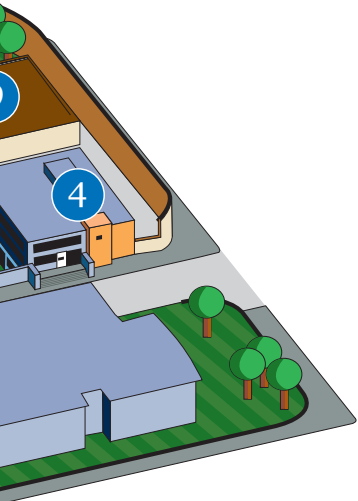
- A. Vehicle entrance from Cowcaddens Road
- B. Pedestrian entrances from Cowcaddens Road

#### University buildings

- 1. Britannia Building
- 2. Continuing Professional Development Centre and William Harley Building
- 3. Arc Health and Fitness Facility
- 4. Students' Association Offices
- 5. Govan Mbeki Building
- 6. George Moore Building
- 7. Hamish Wood Building
- 8. The Refectory
- 9. Occupational Health Unit
- 10. The Saltire Centre
- 11. Charles Oakley Laboratories
- 12. Nursery
- 13. Teaching Block
- 14. Milton Street Building
- 15. Caledonian Court
- 16. Buchanan House



# Map and Campus



## Glasgow

### University and colleges

- A Glasgow Caledonian University
- B Glasgow Metropolitan College
- C Central College

### National and regional travel

#### Train stations

- D Central Station
- E Queen Street Station

#### Bus station

- F Buchanan Bus Station

### Local and regional travel

#### Train stations

- G Charing Cross
- H Anderston
- I Argyle Street

#### Subway stations

- J Cowcaddens
- K Buchanan Street
- L St Enoch

### Glasgow from

London	345 Miles
Paris	564 Miles
Moscow	1612 Miles
Athens	1793 Miles
New York	3221 Miles
New Dehli	3282 Miles
Toronto	3284 Miles
Beijing	4980 Miles
Tokyo	5781 Miles
Johannesburg	5960 Miles
Taipei	6026 Miles
Kuala Lumpur	6658 Miles
Singapore	6837 Miles
Buenos Aires	6980 Miles

### Glasgow from

London	55Mins
Paris	1Hr 55Mins
Moscow	5Hrs 10Mins
Athens	5Hrs 15Mins
New York	6Hrs 5Mins
Toronto	7Hrs 55Mins
New Dehli	10Hrs 25Mins
Johannesburg	12Hrs 40Mins
Beijing	13Hrs 15Mins
Tokyo	13Hrs 15MMins
Kuala Lumpur	14Hrs 15Mins
Buenos Aires	14Hrs 15Mins
Singapore	14Hrs 40Mins
Taipei	17Hrs 50Mins

# Terms and conditions

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## University/Student Terms and Conditions

The University will use all reasonable endeavours to deliver courses and programmes of study in accordance with the descriptions set out in this prospectus. The prospectus is inevitably produced at the earliest date to provide maximum assistance to intending applicants and it is possible that some changes will occur between the date of printing and the start of the academic year to which it relates (including academic exchange programmes). The University therefore reserves the right to make variations to the content or method of delivery of courses, to discontinue, merge or combine courses if such action is reasonably considered to be necessary by the University. Such changes may occur either before or after admission. If, after an application for a course has been accepted, the course has been substantially varied from that described in the prospectus, the student is entitled to withdraw from that course. In the event of such withdrawal an appropriate refund of any course fee paid by the student to the University will be made. If the University discontinues any course, it will use its reasonable endeavours to provide a suitable alternative course.

The University will not be liable to students for any loss which is suffered if it is unable to deliver services to students (including courses, teaching, examinations and assessments) because of factors which could reasonably be considered to be outside the control of the university (such as staff illness, labour disputes, industrial action, governmental action, civil commotion, severe weather or concerns regarding the transmission of serious illness). If such factors arise the university will take such steps, as it reasonably can, to minimise any disruption to students studies.

The university aims to offer undergraduate students flexibility of study within the relevant regulations and the academic timetable is drawn up with this objective in mind. However, while every student will be able to take appropriate modules in the programmes for which he/she is registered, we cannot guarantee that all modules will be available to all students who are qualified to take them as options offered may be subject to a minimum level of demand. We will notify students if this is the case in sufficient time to allow consideration of other modules.

## The Student Charter

The Further and Higher Education Charter for Scotland sets out the standards that students, employers and the public can expect from colleges and universities throughout Scotland. Glasgow Caledonian University is committed to the adoption and implementation of the aims and objectives contained within the Charter. Glasgow Caledonian University welcomes students of all kinds and adopts a positive approach to equal opportunities. We listen to students' opinions on programmes and facilities and provide the opportunity to make comment. The Charter is available by writing for a copy to Freepost GW7383 Glasgow G13 1BR.





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further information  
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**[www.gcu.ac.uk](http://www.gcu.ac.uk)**.”



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