



University  
of Glasgow

# POSTGRADUATE PROSPECTUS 2018



**WORLD  
CHANGERS  
WELCOME**

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# OPEN DAY

Thursday 16 November 2017

Attending our Postgraduate Open Day is an invaluable opportunity to find out more about your academic areas of interest, meet staff and current students, and gather information and advice on important topics such as admissions, finance and accommodation.

We have postgraduate opportunities in:

- arts and humanities
- science and engineering
- social sciences, business, education, law and interdisciplinary studies
- medical, veterinary and life sciences.

For information and registration, please visit  
[glasgow.ac.uk/pgopenday](http://glasgow.ac.uk/pgopenday)



**4th oldest**  
English-speaking  
university in  
the world

Ranked in the  
**top 100**  
of the world's  
universities

A member of the  
**Russell Group**  
of research-  
intensive UK  
universities



**65th**  
QS World  
University  
Rankings 2018

**Joint 88th**  
Times Higher  
World University  
Rankings 2016/17

# WHAT CAN I STUDY?

<b>Accounting &amp; Finance</b>	<b>44</b>	<ul style="list-style-type: none"> <li>Accounting Professional Pathway 1 (ICAEW)</li> <li>Corporate Governance &amp; Accountability</li> <li>Financial Modelling</li> <li>International Accounting &amp; Financial Management</li> <li>International Corporate Finance &amp; Banking</li> <li>International Finance</li> <li>International Financial Analysis</li> </ul> <p><i>Research opportunities</i></p>
<b>American Studies</b>	<b>49</b>	<ul style="list-style-type: none"> <li>American Studies</li> </ul> <p><i>Research opportunities</i></p>
<b>Ancestral Studies</b>	<b>50</b>	<ul style="list-style-type: none"> <li>Ancestral Studies</li> </ul> <p><i>Research opportunities</i></p>
<b>Archaeology</b>	<b>51</b>	<ul style="list-style-type: none"> <li>Celtic &amp; Viking Archaeology</li> <li>Conflict Archaeology &amp; Heritage</li> <li>Material Culture &amp; Artefact Studies</li> </ul> <p><i>Research opportunities</i></p>
<b>Biodiversity, Animal Health &amp; Comparative Medicine</b>	<b>54</b>	<ul style="list-style-type: none"> <li>Animal Welfare Science, Ethics &amp; Law</li> <li>Conservation Management of African Ecosystems</li> <li>Ecology &amp; Environmental Biology</li> <li>Quantitative Methods in Biodiversity, Conservation &amp; Epidemiology</li> <li>Wildlife &amp; Livestock Management (online)</li> </ul> <p><i>Research opportunities</i></p>
<b>Cancer Sciences</b>	<b>58</b>	<ul style="list-style-type: none"> <li>Cancer Sciences</li> </ul> <p><i>Research opportunities</i></p>
<b>Cardiovascular &amp; Medical Sciences</b>	<b>60</b>	<ul style="list-style-type: none"> <li>Cardiovascular Sciences</li> <li>Clinical Pharmacology</li> <li>Clinical Trials &amp; Stratified Medicine</li> <li>Diabetes</li> <li>Sport and Exercise Science &amp; Medicine (and online option)</li> <li>Stratified Medicine &amp; Pharmacological Innovation</li> <li>Translational Medicine</li> </ul> <p><i>Research opportunities</i></p>
<b>Celtic &amp; Gaelic</b>	<b>65</b>	<ul style="list-style-type: none"> <li>Celtic Studies (MLitt)</li> <li>Celtic Studies (MRes)</li> </ul> <p><i>Research opportunities</i></p>
<b>Central &amp; East European Studies</b>	<b>67</b>	<ul style="list-style-type: none"> <li>Central &amp; East European, Russian &amp; Eurasian Studies</li> <li>Russian/Czech/Estonian/Hungarian/Latvian/Polish Language</li> <li>Russian, East European &amp; Eurasian Studies (MSc)</li> <li>Russian, East European &amp; Eurasian Studies (MRes)</li> <li>Russian Language</li> <li>Russian for Social Scientists (PgDip)</li> <li>Russian for Social Scientists (PgCert)</li> </ul> <p><i>Research opportunities</i></p>
<b>Chemistry</b>	<b>72</b>	<ul style="list-style-type: none"> <li>Chemistry</li> <li>Chemistry with Medicinal Chemistry</li> </ul> <p><i>Research opportunities</i></p>
<b>Classics</b>	<b>74</b>	<ul style="list-style-type: none"> <li>Ancient Cultures</li> <li>Classics</li> </ul> <p><i>Research opportunities</i></p>
<b>Computing Science</b>	<b>76</b>	<ul style="list-style-type: none"> <li>Computing Science</li> <li>Data Science</li> <li>Information Security</li> <li>Information Technology</li> <li>IT Cyber Security</li> <li>Software Development</li> </ul> <p><i>Research opportunities</i></p>
<b>Creative Writing</b>	<b>80</b>	<ul style="list-style-type: none"> <li>Creative Writing (and online option)</li> </ul> <p><i>Research opportunities</i></p>
<b>Economic &amp; Social History</b>	<b>82</b>	<ul style="list-style-type: none"> <li>Global Economy</li> <li>Global Markets, Local Creativities</li> <li>History (with an emphasis on the History of Medicine)</li> </ul> <p><i>Research opportunities</i></p>
<b>Economics</b>	<b>85</b>	<ul style="list-style-type: none"> <li>Asset Pricing &amp; Investment</li> <li>Banking &amp; Financial Services</li> <li>Development Studies</li> <li>Economic Development</li> <li>Economics</li> <li>Economics, Banking &amp; Finance</li> <li>Environment &amp; Sustainable Development</li> <li>Finance &amp; Economic Development</li> <li>Financial Economics</li> <li>Financial Forecasting &amp; Investment</li> <li>Financial Risk Management</li> <li>International Banking &amp; Finance</li> <li>International Trade &amp; Finance</li> <li>Investment Banking &amp; Finance</li> <li>Investment Fund Management</li> <li>Quantitative Finance</li> </ul> <p><i>Research opportunities</i></p>
<b>Education</b>	<b>94</b>	<ul style="list-style-type: none"> <li>Academic Practice</li> <li>Adult Education, Community Development &amp; Youth Work</li> <li>Adult Education for Social Change</li> <li>Advanced Educational Leadership (online)</li> <li>Assessment in Education (online)</li> <li>Childhood Practice</li> <li>Children's Literature &amp; Literacies</li> <li>Children's Literature, Media &amp; Culture</li> <li>Education (online)</li> <li>Education (Primary/Secondary)</li> <li>Education, Public Policy &amp; Equity</li> <li>Educational Studies (MSc)</li> <li>Educational Studies (MEd)</li> <li>Educational Studies (Adult Education, Community Development &amp; Youth Studies)</li> <li>Enhanced Practice in Education (Dumfries)</li> <li>Inclusive Education: Research, Policy &amp; Practice (MEd)</li> <li>Inclusive Education: Research, Policy &amp; Practice (PgDip/PgCert) (online)</li> <li>Into Headship</li> <li>Learning &amp; Teaching in Higher Education (online)</li> <li>Learning &amp; Teaching of Modern Languages in the Primary School</li> <li>Middle Leadership &amp; Management in Schools</li> <li>Museum Education (and online option)</li> <li>Professional Learning &amp; Enquiry</li> <li>Professional Practice with PGDE</li> <li>Religious Education by Distance Learning (online)</li> <li>Teacher Leadership &amp; Learning</li> <li>Teaching Adults</li> <li>TESOL (MSc)</li> <li>TESOL (MEd)</li> </ul> <p><i>Research opportunities</i></p>
<b>Engineering</b>	<b>110</b>	<ul style="list-style-type: none"> <li>Aerospace Engineering</li> <li>Aerospace Engineering &amp; Management</li> <li>Biomedical Engineering</li> <li>Civil Engineering</li> <li>Civil Engineering &amp; Management</li> <li>Computer Systems Engineering</li> <li>Electronics &amp; Electrical Engineering</li> <li>Electronics &amp; Electrical Engineering &amp; Management</li> <li>Mechanical Engineering</li> <li>Mechanical Engineering &amp; Management</li> <li>Mechatronics</li> <li>Nanoscience &amp; Nanotechnology</li> <li>Product Design Engineering</li> <li>Structural Engineering</li> <li>Sustainable Energy</li> </ul> <p><i>Research opportunities</i></p>
<b>Environment, Sustainability &amp; Tourism</b>	<b>123</b>	<ul style="list-style-type: none"> <li>Environment, Culture &amp; Communication (Dumfries)</li> <li>Environmental Change &amp; Society (Dumfries)</li> <li>Tourism Development &amp; Culture (Dumfries)</li> <li>Tourism, Heritage &amp; Development (Dumfries)</li> <li>Tourism, Heritage &amp; Sustainability (Dumfries)</li> </ul> <p><i>Research opportunities</i></p>
<b>Film &amp; Television</b>	<b>127</b>	<ul style="list-style-type: none"> <li>Film &amp; Television Studies</li> <li>Film Curation</li> <li>Filmmaking &amp; Media Arts</li> </ul> <p><i>Research opportunities</i></p>
<b>Geographical &amp; Earth Sciences</b>	<b>130</b>	<ul style="list-style-type: none"> <li>Geoinformation Technology &amp; Cartography</li> <li>Geomatics &amp; Management</li> <li>Geospatial &amp; Mapping Sciences</li> <li>Human Geography: Spaces, Politics, Ecologies</li> </ul> <p><i>Research opportunities</i></p>
<b>Health &amp; Wellbeing</b>	<b>133</b>	<ul style="list-style-type: none"> <li>Global Health</li> <li>Global Mental Health (and online option)</li> <li>Health Technology Assessment (online)</li> <li>One Health (online)</li> <li>Primary Care (online)</li> <li>Public Health (and online option)</li> </ul> <p><i>Research opportunities</i></p>
<b>History</b>	<b>138</b>	<ul style="list-style-type: none"> <li>History</li> <li>Early Modern History</li> <li>Gender History</li> <li>History (with an emphasis on the History of Medicine)</li> <li>Medieval History</li> <li>Modern History</li> <li>Scottish History</li> </ul> <p><i>Research opportunities</i></p>
<b>History of Art</b>	<b>143</b>	<ul style="list-style-type: none"> <li>Art History: Art: Politics: Transgression: 20th Century Avant-Gardes</li> <li>Art History: Collecting &amp; Provenance in an International Context</li> <li>Art History: Dress &amp; Textile Histories</li> <li>Art History: Inventing Modern Art, 1768 – 1918</li> <li>Art History: Modern Material Artefacts</li> <li>Art History: Technical Art History, Making &amp; Meaning</li> <li>Art History: The Renaissance in Northern Europe &amp; Italy</li> <li>Curatorial Practice (Contemporary Art)</li> <li>Textile Conservation</li> </ul> <p><i>Research opportunities</i></p>

<b>Infection, Immunity &amp; Inflammation</b>	<b>150</b>		
• Immunology & Inflammatory Disease			
• Infection Biology (with specialisms)			
<i>Research opportunities</i>			
<b>Information Studies</b>	<b>152</b>		
• Information Management & Preservation			
• Museum Studies			
<i>Research opportunities</i>			
<b>Law</b>	<b>154</b>		
• Corporate & Financial Law			
• Diploma in Professional Legal Practice			
• Intellectual Property & the Digital Economy			
• Intellectual Property, Innovation & the Creative Economy (MSc) (online)			
• Intellectual Property, Innovation & the Creative Economy (LLM) (online)			
• International Commercial Law			
• International Competition Law & Policy			
• International Economic Law			
• International Law			
• International Law & Security			
• Law (LLM)			
• Law (MRes)			
• Socio-Legal Studies			
<i>Research opportunities</i>			
<b>Life Sciences</b>	<b>162</b>		
• Bioinformatics			
• Biomedical Sciences (MSc)			
• Biomedical Sciences (MRes)			
• Human Anatomy			
• Medical Visualisation & Human Anatomy			
<i>Research opportunities</i>			
<b>Management</b>	<b>166</b>		
• Finance & Management			
• International Business & Entrepreneurship			
• International Human Resource Management & Development			
• International Management & Design Innovation			
• International Strategic Marketing			
• Management (MSc)			
• Management (MRes)			
• Management & Sustainable Tourism (Glasgow/Dumfries)			
• Management with Enterprise & Business Growth			
• Management with Human Resources			
• Management with International Finance			
• MBA (Master of Business Administration)			
<i>Research opportunities</i>			
<b>Mathematics &amp; Statistics</b>	<b>173</b>		
• Advanced Statistics			
• Biostatistics			
• Data Analytics (and online option)			
• Environmental Statistics			
• Mathematics / Applied Mathematics			
• Statistics			
<i>Research opportunities</i>			
<b>Media &amp; Cultural Policy</b>	<b>177</b>		
• Creative Industries & Cultural Policy			
• Media Management			
<i>Research opportunities</i>			
<b>Medicine, Dentistry &amp; Nursing</b>	<b>179</b>		
• Advanced Lymphoedema Management			
• Advanced Nursing Science			
• Advanced Practice in Health Care			
• Child Health			
• Clinical Genetics			
• Clinical Nutrition			
• Critical Care			
• Endodontics			
• Forensic Toxicology			
• Genetic & Genomic Counselling (with Work Placement)			
• Healthcare Chaplaincy			
• Health-Professions Education / Health-Professions Education (with Research) (online)			
• Human Nutrition			
• Leadership in Health & Social Care (online)			
• Medical Genetics & Genomics			
• Medical Physics			
• Molecular Pathology			
• Oral & Maxillofacial Surgery			
• Oral Sciences			
• Orthodontics			
• Sports Nutrition			
<i>Research opportunities</i>			
<b>Modern Languages &amp; Translation Studies</b>	<b>191</b>		
• Comparative Literature			
• Translation Studies: Translation & Professional Practice			
<i>Research opportunities</i>			
<b>Molecular Cell &amp; Systems Biology</b>	<b>193</b>		
• Biotechnology			
• Biotechnology & Management			
• Food Security			
<i>Research opportunities</i>			
<b>Music</b>	<b>196</b>		
• Composition & Creative Practice			
• Historically Informed Performance Practice (in conjunction with the Royal Conservatoire of Scotland)			
• Musicology			
• Sound Design & Audiovisual Practice			
<i>Research opportunities</i>			
<b>Neuroscience &amp; Psychology</b>	<b>199</b>		
• Applied Neuropsychology			
• Brain Sciences			
• Clinical Neuropsychology			
• Clinical Psychology			
• Psychological Science (conversion)			
• Psychological Studies (conversion)			
• Psychology (conversion) (online)			
• Research Methods of Psychological Science			
<i>Research opportunities</i>			
<b>Philosophy</b>	<b>204</b>		
• Philosophy (MSc)			
• Philosophy (MLitt)			
<i>Research opportunities</i>			
<b>Physics &amp; Astronomy</b>	<b>206</b>		
• Astrophysics			
• Physics: Advanced Materials			
• Physics: Energy & the Environment			
• Physics: Nuclear Technology			
• Sensor & Imaging Systems			
• Theoretical Physics			
<i>Research opportunities</i>			
<b>Politics</b>	<b>210</b>		
• Chinese Studies			
• Global Security (MSc)			
• Global Security (MRes)			
• Human Rights & International Politics (MSc)			
• Human Rights & International Politics (MRes)			
• International Relations (MSc)			
• International Relations (MRes)			
• Political Communication (MSc)			
• Political Communication (MRes)			
• Security, Intelligence & Strategic Studies			
<i>Research opportunities</i>			
<b>Sociology</b>	<b>216</b>		
• Antiquities Trafficking & Art Crime (online)			
• Criminology			
• Criminology & Criminal Justice			
• Equality & Human Rights (MSc)			
• Equality & Human Rights (MRes)			
• Global Migrations & Social Justice (MSc)			
• Global Migrations & Social Justice (MRes)			
• Media, Communications & International Journalism			
• Sociology			
• Sociology & Research Methods			
• Transnational Crime, Justice & Security			
<i>Research opportunities</i>			
<b>Theatre Studies</b>	<b>223</b>		
• Playwriting & Dramaturgy			
• Theatre & Performance Practices			
• Theatre Studies			
<i>Research opportunities</i>			
<b>Theology &amp; Religious Studies</b>	<b>226</b>		
• Political Islam			
• Religion, Literature & Culture			
<i>Research opportunities</i>			
<b>Urban Studies</b>	<b>228</b>		
• City & Regional Planning			
• City Planning & Real Estate Development			
• City Planning & Regeneration			
• City Planning & Transport			
• Housing Studies			
• International Planning Studies			
• International Real Estate			
• International Real Estate & Management			
• Public & Urban Policy			
• Public Policy & Management			
• Public Policy Research			
• Real Estate (PgCert)			
• Real Estate (MSc)			
• Real Estate & Regeneration			
• Spatial Planning			
• Urban Research			
• Urban Transport			
<i>Research opportunities</i>			
<b>Veterinary Medicine</b>	<b>238</b>		
• Advanced Practice in Veterinary Nursing (online)			
• Veterinary Public Health			
<i>Research opportunities</i>			
<b>War Studies</b>	<b>240</b>		
• War Studies			
<i>Research opportunities</i>			

Established in  
**1451**

Join a research  
community of  
**3,000**  
research and  
teaching staff  
across 4 colleges

**26,000**  
students  
from over  
**140**  
countries

**Over**  
**300**  
taught programmes

**81%**  
of our research  
judged to be  
internationally  
excellent

(REF 2014)

**2nd in**  
**Scotland**  
for research  
excellence

(REF 2014)

**Glasgow**  
is the world's  
**friendliest**  
**city**

(Rough Guides 2016)

**95.9%**  
of students  
in employment  
or further study  
**6 months after**  
**graduation**

(DLHE 2015/16)

**Dedicated**  
postgraduate club  
and library  
study space



The Hunterian Museum, located on campus, is Scotland's oldest public museum



# CHANGING THE WORLD SINCE 1451

1451 The University of Glasgow is established, making it the fourth oldest university in the UK  
 1737 Adam Smith, author of *The Wealth of Nations*, joins the University aged 14  
 1763 James Watt introduces the Watt steam engine  
 1837 James McCune Smith, the first African American to train formally as a physician, graduates  
 1867 Joseph Lister publishes breakthrough research – the use of antiseptic in surgery  
 1879 First successful removal of a brain tumour by William Macewen  
 1881 Lord Kelvin lights a house on campus entirely with electricity  
 1894 First female medic graduates in Scotland  
 1895 Discovery of helium by Sir William Ramsay  
 1896 John Macintyre opens world's first X-ray department at Glasgow's Royal Infirmary  
 1898 Discovery of neon, krypton, and xenon by Sir William Ramsay  
 1904 Sir William Ramsay awarded Nobel Prize in Chemistry  
 1914 Pioneer of television John Logie Baird begins his studies at the University  
 1916 Pioneering dietician Mary Andross graduates BSc  
 1921 Sister Bernardine becomes first woman to receive a PhD  
 1927 First honorary degree awarded to a Scottish female academic  
 1933 Albert Einstein gives guest lecture on 'The Modern Theory of Relativity'  
 1949 John Boyd Orr wins the Nobel Peace Prize for his work with the United Nations  
 1957 Nobel Prize in Chemistry awarded to Sir Alexander Todd  
 1957 Glasgow becomes the first university in Scotland to have an electronic computer  
 1958 Discovery of first beta-blocking heart drug by Sir James Black  
 1958 Professor Ian Donald publishes the world's first ultrasound images of a foetus  
 1959 Production of the world's first commercial vaccine for a parasitic disease of cattle  
 1968 First fertilisation of a human egg in the laboratory by Robert Edwards  
 1969 Nobel Prize in Chemistry is awarded to Derek Barton  
 1975 Development of Glasgow Coma Scale by Professors Bryan Jennett and Michael Bond  
 1978 Rona Mackie becomes the first female Professor of Dermatology in the UK  
 1988 Sir James Black, Gertrude Elion and George Hitchings awarded Nobel Prize in Medicine  
 1990 First female to be awarded a professorship in dentistry in the UK  
 1999 Donald Dewar appointed the first First Minister of Scotland  
 2003 Emma Richards becomes the first British woman to sail solo around the world  
 2004 Edwin Morgan appointed National Poet for Scotland  
 2008 Mark Beaumont becomes fastest to cycle around the world  
 2010 First clinical trial of stem cell therapy for stroke patients led by Professor Keith Muir  
 2012 Katherine Grainger receives an Olympic gold medal for rowing  
 2013 Emeli Sandé wins Best British Female and Best British Album at BRIT Awards  
 2014 Nicola Sturgeon becomes first female First Minister of Scotland  
 2015 Mhairi Black becomes youngest MP to be elected to the House of Commons  
 2016 Einstein's gravitational waves are detected

Images (from top left to right)

1. Adam Smith, Father of modern economics
2. Karina Atkinson, Award-winning biologist and conservationist
3. Mary Andross, Leading pioneer of the profession of dietetics
4. Amal Azzudin, Human rights activist and 'Glasgow girl'
5. Emile Sandé, Chart-topping singer songwriter
6. John Logie Baird, Invented the first working television
7. Katherine Grainger, Olympics gold medallist
8. Rona Mackie, First female Professor of Dermatology in the UK
9. James Watt, Invented the Watt steam engine
10. Nicola Sturgeon, Scotland's First Minister
11. David Mackay, Chief pilot for Virgin Galactic
12. Mhairi Black, Youngest MP elected to the House of Commons
13. Robert Edwards, Established first IVF clinic
14. Catherine Carswell, Author and theatre critic
15. Chris Brookmyre, Award-winning author
16. Martin Patience, BBC Foreign Correspondent
17. Anne Robertson, expert on the Roman archaeology of Scotland and a respected numismatist
18. Marion Gilchrist, First woman to gain a medical degree in Scotland
19. Lord Kelvin, Eminent physicist
20. Mark Beaumont, Record-breaking long-distance British cyclist

# WORLD-CHANGING CAMPUS

We're creating a campus to inspire the next generation of world changers. The first step was to acquire a 14-acre site beside our current main campus in Glasgow. Now, we're developing our estate for the benefit of students, researchers and our community, with planned total investment of £1 billion.

## The future of learning

It's a once-in-a-lifetime opportunity. We're entering a momentous chapter in our history that will transform the teaching, learning and research spaces we can offer you. Over the next ten years, our major programme of investment will herald the most significant expansion and development of a UK university city campus for more than a century.

## New hubs for research and teaching

We're creating a Research and Innovation Hub that will inspire more world-changing discoveries. The Hub will house large scale interdisciplinary projects and incubator space for spin-out collaborations with industry.

And close to the new site, we're planning a new Learning and Teaching Hub – a modern study space that will benefit from the latest enhancements in technological infrastructure and connectivity.

Our new Teaching Hub will increase our teaching capacity and give students access to interdisciplinary workspaces, from quiet zones to social spaces, to a huge atrium. This is the first major project in our development and work has already begun.

The Learning and Teaching Hub will:

- house around 3000 students
- combine flexible study and social learning space with multi-styled and technology-enabled teaching

- offer around the clock access, ensuring it's possible for students to succeed regardless of background or circumstance.

For more information on our new campus developments, visit [glasgow.ac.uk/explore/campus/projects](http://glasgow.ac.uk/explore/campus/projects)

## The Hunterian at Kelvin Hall

The Hunterian is one of the world's leading university museums. The original collection, bequeathed by Dr William Hunter in 1783, has grown over 200 years to include more than 1.5 million objects.

In partnership with the city of Glasgow and the National Library of Scotland, we have transformed the Kelvin Hall into a centre of excellence for research, teaching, and public engagement, allowing us to offer:

- a state-of-the-art Hunterian Collections Study Centre, supported by a conservation studio, search rooms, conference suite and teaching labs
- a digital portal, Open Collections, that can help forge new academic and educational practices.

## Taught Masters programmes

Masters programmes embedded in The Hunterian's collections and developed in collaboration with cultural and creative employers have been designed to give you the skills you need for the workplace or further research.

Postgraduate internship and work placement opportunities are available through our MUSE (Museum University Student Educators) and Hunterian Associates Programmes. Many of our students progress to PhD level.

Your study choices:

- Ancient Cultures, MLitt (page 74)
- Art History: Collecting & Provenance in an International Context, MSc (page 144)
- Art History: Dress & Textile Histories, MLitt (page 144)
- Art History: Inventing Modern Art, 1768 – 1918, MLitt (page 145)
- Art History: Modern Material Artefacts, MSc (page 145)
- Art History: Technical Art History, Making & Meaning, MLitt (page 146)
- Creative Industries & Cultural Policy, MSc (page 177)
- Curatorial Practice (Contemporary Art), MLitt (page 147)
- Film Curation, MSc (page 128)
- Material Culture & Artefact Studies, MSc/PgDip (page 52)
- Media Management, MSc (page 178)
- Museum Education, MSc (page 105)
- Museum Studies, MSc/PgDip (page 153)
- Textile Conservation, MPhil (page 147)

To read more about cultural and creative study choices at Kelvin Hall, see: [glasgow.ac.uk/explore/campus/projects/kelvinhall](http://glasgow.ac.uk/explore/campus/projects/kelvinhall)



# WORLD-CHANGING RESEARCH

Glasgow is a place that inspires ambitious people to succeed. A place where inquiring minds can develop their ideas. A place where people make discoveries that change the world.

We are a research-led university. Our broad, cross-disciplinary areas of research excellence have attracted major investment: financial and intellectual. They bring together inspiring researchers to address grand challenges that have impact on both a national and international scale, from chronic disease to infectious disease, social justice to sensor systems, and from cultural life to artificial life.

## Areas of strength

It takes a blend of perspectives to find new ways of making progress. Glasgow has exceptional expertise in a number of areas.

- **Addressing inequalities**  
– working collaboratively to understand and address the processes that generate inequalities and their profound effects on individuals, communities and populations across the world.
- **Cultural & creative economies**  
– understanding the past, connecting policymakers and the public with their heritage, supporting the global cultural economy, and shaping the digital future.

Find out more: [glasgow.ac.uk/research/worldchanging](http://glasgow.ac.uk/research/worldchanging)

- **Future life** – integrating innovators from complex chemical systems, biomaterials and stem cell engineering, neuroscience, psychology and medical technologies in order to improve our world.

- **One health** – improving human and animal health, leading research in zoonotic diseases, and investigating the interface between non-communicable and infectious diseases.

- **Precision medicine & chronic diseases** – using advanced genomic, imaging and information technologies to generate tailored treatments for heart disease, cancer, arthritis and stroke.

- **The nano and quantum world** – from studying and controlling particles of matter and light at the smallest possible scale in order to understand the building blocks of our world, to opening new windows to the universe through the detection of gravitational waves.

## Investing in facilities

Our £1bn campus redevelopment plan includes the creation of a new Research and Innovation Hub. This will provide the University with a space devoted to nurturing cross-disciplinary thematic research "at scale" - crossing traditional boundaries and established ways of working.

The Research and Innovation Hub will contain an 'Innovation Accelerator' space. This supported environment will provide high quality office and laboratory facilities for spin-out companies, entrepreneurs and the co-location of corporate research and development teams to work with wider university programmes.

## World-class researchers

The most recent Research Excellence Framework 2014 – an expert, independent review of research quality across UK institutions – recognises Glasgow's broad-based excellence, placing the University 12th overall in the UK for research power and rating 81% of research as either 'internationally excellent' or 'world-leading'.

[glasgow.ac.uk/research](http://glasgow.ac.uk/research)



# SUPPORT ALONG THE WAY

At Glasgow we're committed to connecting you with the right resources, from dedicated teaching staff to an excellent library with extended opening hours.

## University Library

Open daily from 7.15am to 2.00am with online access 24/7, the University Library has one of the largest collections of books in Europe.

- 12 wi-fi enabled floors
- Dedicated postgraduate study space
- 2.5 million books and journals
- More than 800,000 e-books and e-journals
- Comfortable individual group and study spaces and hundreds of PCs
- Café providing a relaxed learning and study space.

## Archives and Special Collections

Glasgow's Archives and Special Collections attract scholars from around the globe. In Special Collections, you'll find rare books, manuscripts and early photographs, covering most branches of the arts, sciences and medicine.

- More than 200,000 manuscript items
- Around 200,000 printed works, including over 1,000 printed before 1501.

For more information, see [glasgow.ac.uk/library](http://glasgow.ac.uk/library) or check out [facebook.com/uofglibrary](http://facebook.com/uofglibrary)

## Student Services

Our Student Services Enquiry Team is here to help you make the most of your time at Glasgow, from Council Tax queries to advice on support services available to you. We can help with the following:

- Assist with the registration and enrolment process
- Provide information, guidance and resolution on financial enquiries and provide information on financial aid options

- Provide assistance and production of academic documents (certifying letters, HEAR and references) and student ID cards
- Assist with enquiries on all elements of the student record (MyCampus)
- Support with appointment diagnosis and appointment bookings with services
- Guidance and information on how to access and use all Student Services resources
- Support and information to assist with welfare and pastoral issues.

For a full list of all our student services, see [glasgow.ac.uk/students](http://glasgow.ac.uk/students)

## Access researcher training

We offer personal and professional development opportunities to support you in your journey to become researcher and leader in your field.

Training programmes provided by our graduate schools can help you to:

- manage your time and your research
- develop presentation, leadership, public engagement and enterprise skills
- participate in collaborative programmes locally, regionally and nationally
- develop skills in conference organisation and academic publication.

For more information, see [glasgow.ac.uk/researcherdevelopment](http://glasgow.ac.uk/researcherdevelopment)

## Ask a Student

Contact our Ask a Student service to be put in touch with current students who provide impartial information on student life at Glasgow. Send in your questions at [glasgow.ac.uk/askastudent](http://glasgow.ac.uk/askastudent)

## Graduate Schools

Our Graduate Schools support postgraduate students in each of our colleges. Being part of one of our Graduate School communities will be of huge advantage to you during your studies with us and beyond. Each Graduate School offers a number of benefits including:

- a supportive environment for postgraduate study and research within the College
- a diverse programme of activities which will ensure you feel part of the wider research community
- research and training opportunities to enable you to enhance your academic, personal and professional development
- the opportunity to engage with industry partners through training, placements and events.

For more information, see:  
[glasgow.ac.uk/arts/graduateschool](http://glasgow.ac.uk/arts/graduateschool)  
[glasgow.ac.uk/mvls/graduateschool](http://glasgow.ac.uk/mvls/graduateschool)  
[glasgow.ac.uk/scienceengineering/graduateschool](http://glasgow.ac.uk/scienceengineering/graduateschool)  
[glasgow.ac.uk/socialsciences/graduateschool](http://glasgow.ac.uk/socialsciences/graduateschool)



Our Student Services Enquiry Team is here to help you make the most of your time at Glasgow



# YOUR FUTURE

We want you to be a success, both now and in the future. We can help you build your skills, make relevant connections with academic and industry experts and prepare for your chosen career. At Glasgow we understand the importance of creating a world-class environment where you can feel inspired.

The Careers Service is here to help you with professional careers advice, coaching, resources and support, both in person and online. We can help you find experience and give advice on getting your dream job.

## Build your career

Our Careers Service can offer you:

- one-to-one support from professionally trained managers
- access to thousands of potential employers for work experience, internships and jobs
- training and coaching in job-hunting techniques
- help to build your CV and job applications
- opportunities to meet global recruiters on campus
- links to postgraduate study in the UK and overseas
- an online career management system that alerts you to jobs relevant to your career interests.

## Inspiring events

- We provide a comprehensive, engaging and creative suite of services to assist you, including five large-scale recruitment fairs which focus on a range of sector specific and national recruitment areas.

- Beyond the traditional careers fairs and general advice, we strive to offer truly innovative and imaginative support based on feedback. This has resulted in the introduction of initiatives including the 'First Tuesday Club', a series of unique career events designed to inspire you in your career decisions.
- We also host a broad range of employers on campus for presentations and skills sessions.

## Careers Alumni Network

You can benefit from the experience of an extensive network of 120,000 alumni spanning over 180 countries, even before you graduate. Our Careers Alumni Network offers you the chance to interact with our alumni both virtually and in person, providing networking opportunities and access to first-hand information on where a degree from Glasgow can take you.

For more information, see [glasgow.ac.uk/gcan](http://glasgow.ac.uk/gcan)

## Internship Hub

The Careers Service also operates the Internship Hub. Delivered exclusively to Glasgow students,

the hub is responsible for sourcing a diverse range of internships, and supporting students before, during and after gaining an internship.

The Internship Hub facilitates over 400 opportunities each academic year, for students at all levels of study. These include:

- hundreds of summer internships with start-up businesses, multinational organisations, and everyone inbetween
- over 100 on-campus internships working anywhere from The Hunterian to University Services
- part-time roles during term time with local companies that fit in with your studies.

## Postgraduate research students

We understand that our postgraduate research students may have different requirements from our taught students and we subsequently offer a specialist Careers Manager for research students and staff, whatever your area of study.

## Find out more

For more information on the Careers Service, visit [glasgow.ac.uk/careers](http://glasgow.ac.uk/careers)

# ONLINE LEARNING

Online learning at the University of Glasgow allows you to benefit from our outstanding educational experience and achieve a high-quality degree from a world-class University without having to relocate to our campus.

Studying online offers you flexibility to your learning: you can study at a time and location convenient to you, allowing you to fit your studies in around your personal and professional commitments.

Our online credit-bearing programmes offer the same excellent teaching and assessment standards as their campus-based equivalents – and they lead to the same qualifications, awarded by the University of Glasgow.

## Support for your studies

Great emphasis is placed on making sure you feel well supported in your learning and that you have good interactions with everyone on the programme. All you need to participate in our online programmes is a computer and internet access. You do not have to have experience of studying online as you will be guided through how to access and use all of our online resources.

## What to expect

As an online student at the University of Glasgow you will become part of a global community of learners. You will connect with your fellow students and tutors through our virtual learning environment, where you will have access to a multitude of learning resources including: recorded lectures, live seminars, videos, interactive quizzes, journal articles, electronic books and other web resources.

For the majority of programmes you can complete the degree entirely online. Please note that some of the online programmes may require

students to attend study evenings/weekends in Glasgow, so please refer to individual programme pages.

Following completion of your programme, you'll be invited to campus for your graduation ceremony along with our on-campus students.

## Programmes offered online

We currently offer online study options on the following taught postgraduate programmes:

- Molecular Pathology, MSc/PgDip/PgCert (page 187)
- Museum Education, MSc (page 105)
- One Health, MSc/PgDip/PgCert (page 135)
- Primary Care, MSc/PgDip/PgCert (page 136)
- Psychology (conversion), MSc (page 202)
- Public Health, MPH/PgDip/PgCert (page 137)
- Religious Education by Distance Learning, Cert (page 107)
- Sport and Exercise Science & Medicine, MSc/PgDip/PgCert (page 63)
- Wildlife & Livestock Management, MSc/PgDip/PgCert (page 56)

You can find out more about our online programmes by visiting [glasgow.ac.uk/onlineprogrammes](http://glasgow.ac.uk/onlineprogrammes)

## MOOCs at Glasgow

A MOOC (massive open online course) is a free non-credit bearing programme which is designed to be studied online by a large number of participants.

MOOCs not only include resources such as video and texts but also provide interactive discussion areas that help encourage an online community.

The University of Glasgow is currently offering MOOCs via the FutureLearn platform. Previous MOOCs have included Antiquities Trafficking and Art Crime, Multilingual Learning for a Globalised World, Cancer in the 21st Century: The Genomic Revolution, and Robert Burns: Poems, Songs and Legacy.

For an up-to-date list of MOOCs, visit [glasgow.ac.uk/study/mooc](http://glasgow.ac.uk/study/mooc)

## Kris, Scotland Creative Writing (MLitt) student

I decided to apply for an online programme at the University of Glasgow as I had found that my artistic career and day job were holding me back from completing my studies. The MLitt in Creative Writing allowed me to fit my studies around my work and engagements.

Being able to access the programme from anywhere and not having to be on campus was a huge benefit to me. I travel a lot for work and was able to participate in classes and tutorials, and watch lectures and guest talks via video link. I was also able to connect with other distance learning students around the world, so didn't feel at all disconnected or remote.

The ability to study a renowned programme at a world-leading university without having to pack up your life and attend campus is a massive bonus.



# YOUR GLASGOW HOME

Living in university accommodation is a great way to make new friends and settle in quickly to life at the University of Glasgow. The Accommodation Services office is here to help you find a suitable place to live and, providing you've applied and met the conditions of your offer of study before 22 August, we can guarantee a place in our university accommodation.

## Am I eligible?

Most new students and all new international students are guaranteed accommodation (subject to our admissions policy): see [glasgow.ac.uk/accommodation](http://glasgow.ac.uk/accommodation)

## How much does it cost?

Fees range from £115.57 per week for a single room in a self-catered residence to £140.70 per week for a single en-suite room in a self-catered residence. For up-to-date prices for all our residences, see [glasgow.ac.uk/postgraduate/accommodation/fees](http://glasgow.ac.uk/postgraduate/accommodation/fees)

## Where can I live?

You have options in four residences, located between a two-minute and a 25-minute walk from our main Gilmorehill campus.

Benefits include:

- Dedicated residences for postgraduate students only
- An excellent way to make new friends and the opportunity to share accommodation with other University of Glasgow students

- Round the clock access to dedicated University student support services, including trained support staff living onsite
- Membership of the University's sport facilities included in your rent, see page 22
- 39 or 52 week contracts available
- Group insurance cover for your belongings
- 24/7 internet access incorporating wi-fi in all rooms.

You can compare the facilities online at: [glasgow.ac.uk/postgraduate/accommodation](http://glasgow.ac.uk/postgraduate/accommodation)

## How do I apply?

As soon as you've accepted your conditional or unconditional offer of study, you can apply online: [glasgow.ac.uk/postgraduate/accommodation/apply](http://glasgow.ac.uk/postgraduate/accommodation/apply)

## Families and couples

We offer a small number of furnished self-contained flats for couples or families.

## If you have a disability

Please contact one of our Student Disability Advisers as soon as you can to discuss any special requirements you may have. Tel: +44 (0)141 330 5497, email: [anne.macgregor@glasgow.ac.uk](mailto:anne.macgregor@glasgow.ac.uk)

## Other options

If you'd prefer to find accommodation through a private landlord, we can offer advice and help. Register online to search our private accommodation database at [www.glasgowpad.org](http://www.glasgowpad.org)

The Students' Representative Council is also on-hand to offer advice on looking for a private rental. You can find out more, including its handy guide to flat hunting, at [glasgowstudent.net/advice/accommodation](http://glasgowstudent.net/advice/accommodation)

## Contact us

[glasgow.ac.uk/accommodation](http://glasgow.ac.uk/accommodation)  
Tel: +44 (0)141 330 4743  
Email: [accom@glasgow.ac.uk](mailto:accom@glasgow.ac.uk)

You can also find out more at UofG Living: [uofgliving.co.uk](http://uofgliving.co.uk)



# LIFE BEYOND THE BOOKS

Becoming a member of our sports facilities, University unions, council, clubs or media can be a great way to discover what you're good at, pursue your passions, meet like-minded people and boost your employability.

## Be Active

At University of Glasgow Sport, we know how much staying fit and active can help your studies. That's why our programmes are designed with you in mind and are flexible enough to fit around your schedule.

Our bumper memberships are bursting with possibilities whether you're completely new to exercise and need some help and advice, or are looking to enhance your fitness levels. Our facilities and services include:

- Access to both Stevenson Building and Garscube Sports Complex
- Over 80 group exercise classes every week
- Revolve indoor cycling studio – Glasgow's premier studio cycling experience
- PULSE cardio and conditioning with fully interactive equipment
- POWERPLAY, Scotland's premier conditioning facility (includes 12 Olympic tracks and platforms, monkey bars, rebound wall and so much more)
- 25m swimming pool
- Sauna and steam room
- Drop-in sport sessions
- 50 sports clubs

To find out more, check out our website: [glasgow.ac.uk/sport](http://glasgow.ac.uk/sport)

## Choose from two unions

Glasgow University Union (GUU) has everything a student needs within the stunning old Union building and purpose-built extension nightclub, with no fewer than nine bars, two libraries, a debating chamber, snooker and pool hall, convenience store, Subway and coffee shop serving Starbucks Coffee.

For more information, see [guu.co.uk](http://guu.co.uk) or find us on Facebook under Glasgow University Union.

Queen Margaret Union hosts new music, local bands, big name acts, student-run club nights and a variety of events from quizzes to open mic nights and a fortnightly poetry night 'Aloud'. The QMU is also home to a Bubble Tea outlet.

For more information, visit [qmunion.org.uk](http://qmunion.org.uk) or find us on Facebook under Queen Margaret Union.

## Get involved

The University's student media has a fantastic reputation. You can join teams that produce Glasgow University Guardian, Glasgow University Magazine (GUM), Subcity Radio and Glasgow University Student Television (GUST).

Our Students' Representative Council (SRC) voices your opinions to the decision makers by campaigning and sitting on all the major University committees. It's run by students for students and each year you can vote for the candidates you want to represent you, or stand for office yourself.

Glasgow offers more than 300 clubs and societies, from Capoeira dancing to TEDx to Physics. Joining student clubs and societies is a great way to learn new skills and make friends.

Explore the possibilities at [glasgowstudent.net](http://glasgowstudent.net)

## Dedicated postgraduate club

Our Gilchrist Postgraduate Club provides a casual and relaxed environment to meet friends, participate in group study or take a well-earned break. Facilities include a seminar room for meetings or presentations, study booths with integrated TV screens and a café/bar with barista coffee and tea.

For more information, see [www.gilchristpgclub.org](http://www.gilchristpgclub.org) [facebook.com/TheGilchristPostgraduateClub](http://facebook.com/TheGilchristPostgraduateClub) [twitter.com/thegilchristpg](http://twitter.com/thegilchristpg)



# DISCOVER GLASGOW & SCOTLAND

With a wealth of cultural attractions, impressive architecture, fantastic shopping and a year-round programme of world-class events, it is easy to understand why Glasgow is firmly established as one of Europe's most exciting destinations. As the UK's fourth-largest city and one of the world's top student destinations, Glasgow has loads to offer you.

## West End

The University's main campus is nestled within Glasgow's cosy and cultural West End, which is packed full of cafés, bars, vintage boutiques and cultural attractions. A must-visit is student-friendly Ashton Lane, a charming cobbled lane full of character, with a great choice of bars and restaurants.

## Shopping

It's no surprise that Glasgow is consistently voted the top place to shop in the UK outside London. The city's huge retail centre has a 'style mile' containing big-name shops like Topshop and the Apple Store, as well as designer outlets and quirky vintage boutiques.

## Sports

Following our successful hosting of the 2014 Commonwealth Games, our sports facilities have never been better. From the Chris Hoy Velodrome and national football stadium Hampden Park, to an indoor snowboard and ski slope (with real snow) and ice arena, you'll be spoilt for choice.

## Parks

If you are looking for somewhere to relax and escape the city buzz, Glasgow has plenty of options. In fact, the city has more green space per head of population than any other European city, with over 90 parks and public gardens. Plenty of options to take your study materials or a good book outside!

## Culture

For culture vultures, the city is home to more than 20 world-class museums and art galleries, and is proud to have Europe's largest civic arts collection with works by Dali, Van Gogh, Degas and Monet all available to view free-of-charge in venues around the city.

## Nightlife

As the UK's first UNESCO City of Music, Glasgow is host to around 130 music events every week. From catching global superstars at the 13,000 capacity SSE Hydro, to local indie bands at legendary King Tut's, Glasgow caters for all music tastes.

Glasgow's nightlife is unrivalled, with the city boasting more than 700 bars, pubs and nightclubs and seven cinemas, including the tallest in the world. There's also an impressive mix of theatres, comedy clubs and even themed cabaret clubs.

## Scotland

With Glasgow as a base, you'll be in the ideal location to explore the length and breadth of the country. From spectacular scenery and adventure sports to breathtaking castles and some of the world's best-loved cultural festivals, there are plenty of attractions to experience.

## Find out more

For more information on Glasgow and Scotland, check out [peoplemakeglasgow.com](http://peoplemakeglasgow.com) and [visitscotland.com](http://visitscotland.com)



Mountain biking on the Black Route, part of the Balblair Mountain Bike Trails (Forestry Commission)

The West End Festival takes place every summer

Ashton Lane is a lively cobbled lane packed with bars, restaurants and a cinema

# WELCOMING THE WORLD

No matter how far you travel to join us, we'll help you to feel at home in Glasgow. Glaswegians are famed for their friendliness and we have a range of specialist staff dedicated to your needs. From before you begin your journey to Glasgow, we work hard to make sure that when you arrive, you'll have the best experience possible.

## Meet us in your own country

Members of our International Recruitment team travel throughout the world to attend exhibitions, offer information sessions and interview candidates. We also have staff based in America, China, India, Indonesia, Nigeria and Singapore who are there to assist international applicants. To find out where we will be visiting and contact details of our in-country resident staff, see [glasgow.ac.uk/international](http://glasgow.ac.uk/international)

## Need advice now?

Contact the International Office, Tel: +44 (0)141 330 6062 Visit: [glasgow.ac.uk/international](http://glasgow.ac.uk/international) or check out [facebook.com/GlasgowInternational](http://facebook.com/GlasgowInternational) and [twitter.com/UofGglobal](http://twitter.com/UofGglobal)

## Before you arrive

As you plan and prepare for your journey to Glasgow, our International Student Support team can give you advice on any concerns you have, including immigration, working regulations and finance.

See [glasgow.ac.uk/international/support](http://glasgow.ac.uk/international/support) for further information including our useful International Student Handbook and pre-departure checklist. You can also email us: [internationalstudentsupport@glasgow.ac.uk](mailto:internationalstudentsupport@glasgow.ac.uk)

## Improving competence in English

Before you are admitted to the University, we require you to show competence in English. We set a minimum English language proficiency level and accept qualifications from around the world.\*

\*Please note exceptions may apply, check [glasgow.ac.uk/postgraduate](http://glasgow.ac.uk/postgraduate) for specific requirements.

- IELTS (Academic) 6.5 (with no sub-test less than 6)
- TOEFL iBT: 90; with sub-tests no less than: Reading: 20; Listening: 19; Speaking: 19; Writing: 23
- CAE (Cambridge Certificate of Advanced English): 176 overall: no sub-test less than 169
- CPE (Cambridge Certificate of Proficiency in English): 176 overall: no sub-test less than 169
- PTE Academic (Person Test of English, Academic test): 60; no sub-test less than 59.

Postgraduate research students should check the information at [glasgow.ac.uk/international/englishlanguagerequirements](http://glasgow.ac.uk/international/englishlanguagerequirements)

We provide courses to help you reach a proficiency level equivalent to the required IELTS score through our English for Academic Study (EAS).

Pre-session EAS courses can last 5 – 40 weeks depending on your entry level. These courses have a strong study skills component and focus on academic English to help you adapt to the style of learning and teaching at the University. You can find out more information at [glasgow.ac.uk/eas](http://glasgow.ac.uk/eas)

If you'd like additional English language tuition once you've started your academic course, we also provide part-time language support classes, which are free of charge if you pay the full international student fee.

## Glasgow International College

If you're an international student but not quite ready to study at Glasgow, our partner institution, Glasgow International College, offers pre-Masters programmes in the Arts, Business, Engineering, Law, Science and the Social Sciences to help you achieve the required standards for admission to a range of one-year Masters programmes at the University. See [glasgow.ac.uk/gic](http://glasgow.ac.uk/gic)

## International Summer School

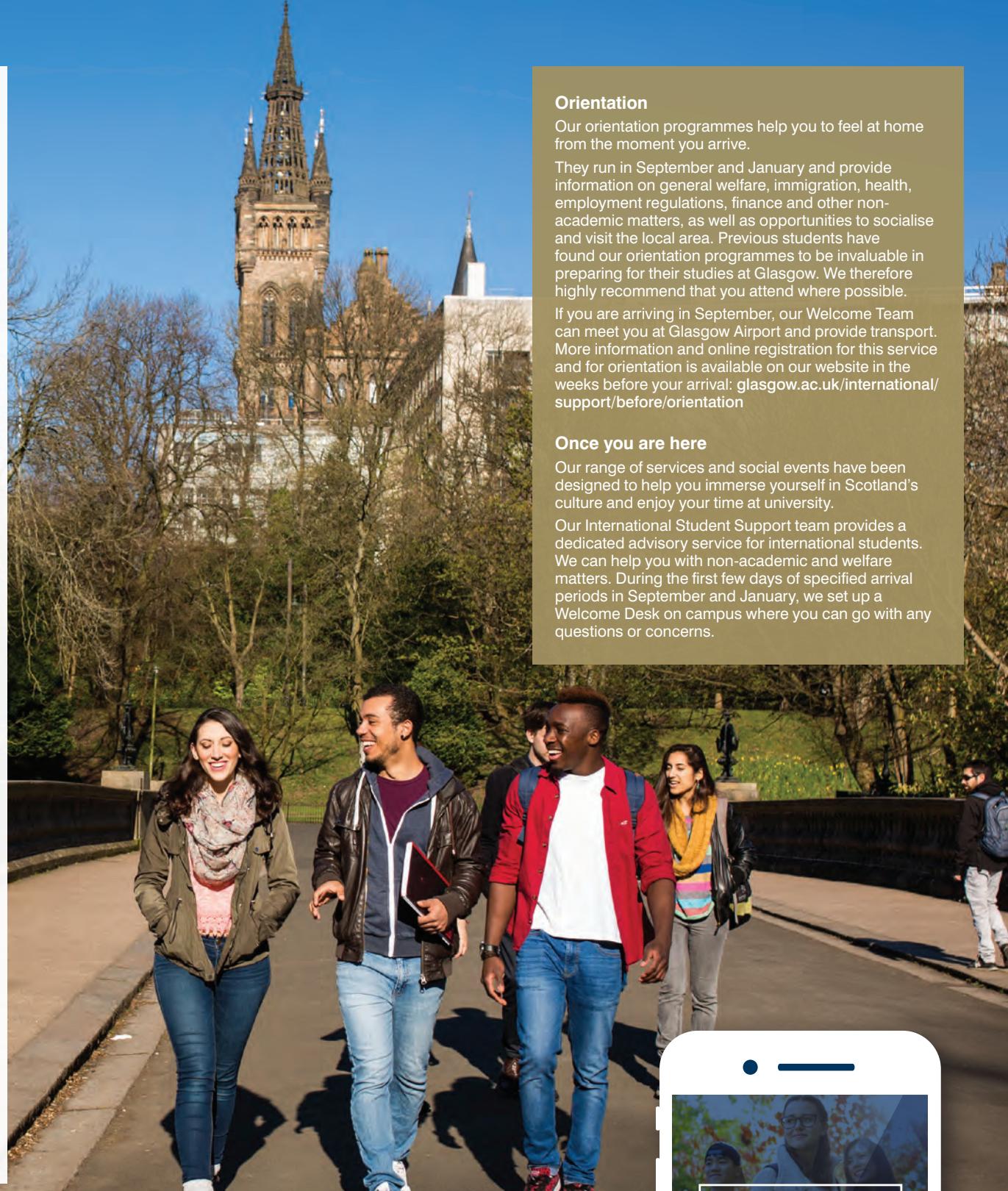
You can also apply to join our International Summer School, which offers a variety of credit-bearing courses from medical sciences through to Scottish history, combined with a lively Scottish social and cultural programme. For more information, visit [glasgow.ac.uk/international/internationalsummerschool](http://glasgow.ac.uk/international/internationalsummerschool)

## Partner institutions

If you've studied at one of our Transnational Education partner institutions in Singapore or China, you'll be suitably qualified to apply for our postgraduate programmes. Please contact the International Office for more information at [student.recruitment@glasgow.ac.uk](mailto:student.recruitment@glasgow.ac.uk)

## Joint Masters degrees

We offer a variety of exciting joint Masters degrees in conjunction with other institutions around the world such as Nankai University in China. For full details of all collaborations, visit our college web pages.



## Orientation

Our orientation programmes help you to feel at home from the moment you arrive.

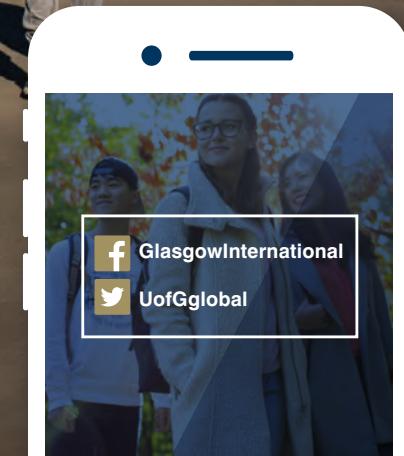
They run in September and January and provide information on general welfare, immigration, health, employment regulations, finance and other non-academic matters, as well as opportunities to socialise and visit the local area. Previous students have found our orientation programmes to be invaluable in preparing for their studies at Glasgow. We therefore highly recommend that you attend where possible.

If you are arriving in September, our Welcome Team can meet you at Glasgow Airport and provide transport. More information and online registration for this service and for orientation is available on our website in the weeks before your arrival: [glasgow.ac.uk/international/support/before/orientation](http://glasgow.ac.uk/international/support/before/orientation)

## Once you are here

Our range of services and social events have been designed to help you immerse yourself in Scotland's culture and enjoy your time at university.

Our International Student Support team provides a dedicated advisory service for international students. We can help you with non-academic and welfare matters. During the first few days of specified arrival periods in September and January, we set up a Welcome Desk on campus where you can go with any questions or concerns.



# ABOUT POSTGRADUATE STUDY

## Postgraduate taught degrees

### Types of postgraduate taught degrees

With more than 300 taught options to choose from, you should be able to find a programme that matches your interests. If you choose to study for a taught degree programme at Glasgow, you can work towards a Masters degree, a Postgraduate Diploma or a Postgraduate Certificate.

- Taught Masters degrees usually last for one year (full-time study) or two years (part-time study) and the final assessment is often based on the submission of a research-based dissertation.
- Most Postgraduate Diplomas last for nine months full-time.
- Postgraduate Certificates generally last for four to five months full-time.
- Many Postgraduate Diploma and Certificate programmes are available on a part-time basis.

### January intake

To enhance flexibility, certain programmes provide the opportunity to commence your studies in January 2019 (as well as September 2018). Programmes are in the School of Engineering, School of Geographical & Earth Sciences, School of Physics & Astronomy and College of Medical, Veterinary & Life Sciences. You can find the full list of programmes at [glasgow.ac.uk/postgraduate/january](http://glasgow.ac.uk/postgraduate/january)

### Online learning

Some of our postgraduate programmes are available online through distance learning, allowing you to expand your horizons no matter where you are in the world. For further information on online programmes, see page 18 or visit [glasgow.ac.uk/onlineprogrammes](http://glasgow.ac.uk/onlineprogrammes)

### Find out more

A full index of our programmes by subject area is available on pages 2 – 5. Alternatively, you can search through our A – Z by programme index on pages 242 – 246 or on our website [glasgow.ac.uk/postgraduate](http://glasgow.ac.uk/postgraduate)

## Postgraduate research

### Types of postgraduate research degrees

Postgraduate research degrees can generally be divided into Research Masters and Doctoral (PhD) degrees. You can find a list of the types of research degree available on the table opposite. Students undertaking a research degree are expected to make a significant contribution to knowledge in, or understanding of, a field of study.

We welcome applicants with their own research proposals or those looking for a specific funded project.

### Find out more

You can find an overview of research opportunities in each subject section. You can find a list of our subject areas with corresponding page numbers on pages 2 – 5. Alternatively, you can find a comprehensive list of the latest opportunities at [glasgow.ac.uk/research/opportunities](http://glasgow.ac.uk/research/opportunities)

# POSTGRADUATE RESEARCH

### Type of degree

PhD (Doctor of Philosophy)

### Length

Three to four years full-time or six to eight years part-time

### Details

PhD thesis is a maximum of 80,000 – 100,000 words, depending on the college, or agreed equivalent (if comprised of applied or creative components).

MLitt (Master of Letters) by Research

Two years full-time or three years part-time

The MLitt thesis is between 40,000 and 70,000 words or agreed equivalent (if comprised of applied or creative components).

MPhil (Master of Philosophy) by Research

Two years full-time or three years part-time

The MPhil thesis is between 30,000 and 40,000 words or agreed equivalent (if comprised of applied or creative components).

MSc (Master of Science) by Research

One year full-time or two years part-time

The MSc by Research thesis is normally 30,000 – 50,000 words.

MRes (Master of Research)

One year full-time or two years part-time

Allows you to take a number of taught courses alongside a substantive dissertation.

DFA (Doctor of Fine Arts in Creative Writing)

Three or four years full-time or six years part-time

You will complete core seminars and submit a portfolio of 70,000 – 100,000 words, including a creative project and essay of written work.

DPT (Doctor of Practical Theology)

Three or four years full-time or six years part-time

You will complete a research project leading to submission of a dissertation or equivalent research portfolio of 50,000 to 65,000 words.

EdD (Doctor of Education)

60 months part-time by distance learning

Comparable in standing with the PhD, the EdD provides a programme of advanced study that is both professionally relevant and academically rigorous.

EngD (Engineering Doctorate)

Four or five years full-time

Emphasis on research in an industrial context. You will complete a thesis or themed portfolio.

LLM by research

One year full-time or two years part-time

You will complete a 30,000 word thesis.

MD (Doctor of Medicine)

Two years full-time or four years part-time

For medically qualified graduates only.

MFA (Master of Fine Arts in Creative Writing) by Research

Two years full-time or four years part-time

Consists of completion of core seminars and submission of a portfolio of 40,000 – 60,000 words, including a creative project and essay of written work.

MMus (Master of Music) by Research

One year full-time or two years part-time

You will attend research seminars and complete a thesis or portfolio.



The Gilbert Scott Building was completed in 1870 when the University moved from its original site in the city centre to its current location in Glasgow's West End

# HOW TO APPLY

## Your application

Before starting your application we strongly recommend that you review any relevant information for prospective postgraduate students on the web pages of the graduate school you are applying to.

Applications are made via our online application form. Before submitting, you may save and return to your application as many times as you wish within 42 days.

For postgraduate taught degrees, visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

For postgraduate research degrees, visit [glasgow.ac.uk/research/apply](http://glasgow.ac.uk/research/apply)

## Research degrees

If you are applying for a research degree, you may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply. Please note, even if you have spoken to an academic staff member about your proposal, you still need to submit an online application form.

You can find relevant academic staff members using our staff interests search at [glasgow.ac.uk/research/opportunities/search](http://glasgow.ac.uk/research/opportunities/search)

## Application deadlines

### Postgraduate taught

Type of applicant	Deadline
Non-EU	21 Jul 2018
UK & EU	25 Aug 2018
Textile Conservation	20 Nov 2017

For programmes that begin in January 2019, application deadlines are:

Type of applicant	Deadline
Non-EU applicants	14 Nov 2018
UK & EU applicants	9 Dec 2018
Master of Veterinary Public Health non-EU:	4 Nov 2018
Master of Veterinary Public Health UK & EU:	2 Dec 2018

Please note that some programmes have earlier deadlines for September entry than those listed above. Please visit individual programme pages for specific deadlines.

## Postgraduate research

We accept applications for the majority of research degrees all year round. However, some research programmes have specific deadlines. For more information, please visit [glasgow.ac.uk/howtoapplyforaresearchdegree](http://glasgow.ac.uk/howtoapplyforaresearchdegree)

## Entry requirements

Applicants for the majority of postgraduate degrees should have obtained at least a 2.1 Honours degree (or equivalent). A Masters qualification may also be required for PhD study. In some cases work experience is also taken into account.

You can find individual entry requirements for each programme at [glasgow.ac.uk/postgraduate](http://glasgow.ac.uk/postgraduate)

Please check country-specific entry requirements at [glasgow.ac.uk/international](http://glasgow.ac.uk/international)

## Contact us

For further information, email: [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)



# FEES, FUNDING & SCHOLARSHIPS

We understand that financing your studies and living costs can be a concern for many postgraduate students. At Glasgow we aim to provide our students with as much financial support as possible and continuously strive to expand our range of scholarships and bursaries for both UK/EU and international students.

## Tuition fees

Tuition fees cover the cost of registration, supervision of research or study, and examination and recreation facilities. Some laboratory-based and clinical departments may require payment of an additional bench fee: your college or graduate school will be able to advise you. You must arrange funding for your tuition fees and living costs before your studies begin.

Fees for 2018–19 will be published in full online at [glasgow.ac.uk/fees](http://glasgow.ac.uk/fees)

## EU Referendum

As you'll be aware, the UK voted in June 2016 to leave the EU. The Scottish Government has confirmed that fees for EU students commencing their studies in 2018 (for both taught and research degrees) will be at the same level as UK students. Students will be admitted as UK/EU fee status students and retain that status for the duration of their studies. EU students enrolling in 2018 continue to remain eligible for tuition fee support from the Student Awards Agency for Scotland (SAAS).

The University of Glasgow is a proudly international institution, deeply rooted in the best European traditions of learning and continues to be committed to offering our students the widest possible opportunities.

For more information, visit [glasgow.ac.uk/study/eu](http://glasgow.ac.uk/study/eu)

## Cost of living

The cost of living can vary depending on your needs. As a rough guide, to study in the UK we recommend around £12,220 per year for a single student, a minimum of £20,000 for married couples and for each child add £5,000 per year. See table on the opposite page.

## Scholarships

As a commitment to supporting new students and rewarding academic excellence, we provide a wide range of financial support. This year we are investing over £1.5m towards scholarships and funding opportunities.

A sample of the scholarship schemes you may be eligible to apply for is as follows:

- Glasgow Alumni Scholarships: 10% fee discount on both postgraduate taught and research programmes for alumni.
- Postgraduate Talent Scholarship: £2,000 for students who could face financial difficulties in taking up a place to study a taught Masters programme.
- GREAT scholarship (India): In collaboration with the British Council, this scholarship offers £30,000 worth of scholarships for Indian students on particular programmes.
- University of Glasgow African Excellence Award: This new award offers full fee waivers for African students.

**Scottish Funding Council Places**  
A small number of our taught programmes are supported by funding provided by the Scottish Funding Council (SFC). The SFC funding covers tuition fees for Scottish and EU (Non-UK) students and places are awarded on a competitive basis.  
For more information visit [glasgow.ac.uk/sfc](http://glasgow.ac.uk/sfc)

## Graduate schools

If you are a postgraduate research degree applicant, the main source of information on funding is the web page of the graduate school you are applying for.

To view the latest funding opportunities and scholarships, see:

- [glasgow.ac.uk/arts/graduateschool](http://glasgow.ac.uk/arts/graduateschool)
- [glasgow.ac.uk/mvls/graduateschool](http://glasgow.ac.uk/mvls/graduateschool)
- [glasgow.ac.uk/scienceengineering/graduateschool](http://glasgow.ac.uk/scienceengineering/graduateschool)
- [glasgow.ac.uk/socialsciences/graduateschool](http://glasgow.ac.uk/socialsciences/graduateschool)

## Find out more

To find out what support is available, and to get advice about topics such as financial aid, budgeting, paying tax and setting up bank accounts, see [glasgow.ac.uk/studentfinance](http://glasgow.ac.uk/studentfinance)

The Cloisters are an iconic part of the University, and have been seen onscreen in many films and TV shows including Cloud Atlas and Outlander

## Tuition fees (2018 – 19)

### Full-time students from the UK/EU per year

Most taught programmes (non-clinical) *	£7,650
Most Adam Smith Business School taught programmes	£10,650
Research programmes	see website
MBA	£16,000

### Full-time international students (non UK/EU)

Most taught or research programmes for arts or social sciences *	£16,650
Most taught or research programmes for science & engineering	£20,150
Most taught or research programmes for medical, veterinary & life sciences (non-clinical)	£20,150
MBA	£24,000

## Cost of living \*\*

### Average cost per month of living in self-catered accommodation

Accommodation	£480
Food	£180
Clothes	£70
Travel in Glasgow	£40
Laundry/stationery etc	£30
Telephone/internet	£40
Entertainment	£120
<b>Total</b>	<b>£960</b>

### Additional costs per year

Books	£400
UK travel	£300
<b>Total</b>	<b>£700</b>



\* Please note tuition fees may be higher for programmes in the College of Social Sciences and College of Science & Engineering. Visit [glasgow.ac.uk/fees](http://glasgow.ac.uk/fees) for full details.

\*\* The living costs quoted are not related to funding requirements for entry clearance. At the time of going to press, UK Visas and Immigration (UKVI) states that Tier 4 visa applicants planning to study outside London must demonstrate that they have funds to cover living costs for up to a maximum of nine months (depending on the length of the course) at £1,015 per month. For up-to-date information on entry clearance requirements, please visit [gov.uk/tier-4-general-visa/overview](http://gov.uk/tier-4-general-visa/overview)

# COLLEGE OF ARTS

Since 1451 we have specialised in the arts and humanities, developing wide-ranging expertise and world-leading research. Postgraduate teaching and research takes place in a stimulating, intellectual and cultural environment, reflecting the University of Glasgow's vast range of academic and vocational expertise, as well as our international reputation.

## Taught and research programmes

The College of Arts offers taught and research programmes in the following subject areas:

American Studies (page 49)  
Ancestral Studies (page 50)  
Archaeology (page 51)  
Celtic & Gaelic (page 65)  
Classics (page 74)  
Creative Writing (page 80)  
English & Scottish Literature & Language (page 119)  
Film & Television (page 127)  
History (page 138)  
History of Art (page 143)  
Information Studies (page 152)  
Media & Cultural Policy (page 177)  
Modern Languages & Translation Studies (page 191)  
Music (page 196)  
Philosophy (page 204)  
Theatre Studies (page 223)  
Theology & Religious Studies (page 226)  
War Studies (page 240)

## Research and learning environment

All of our postgraduate research students take part in at least two transferable skills workshops a year and keep a researcher skills development log. Skills development extends beyond workshops and includes collaborative research training initiatives, conference organising and attendance, internships and careers events.

In addition, our award-winning online journal eSharp offers the chance to participate in

the creation of an international publication for postgraduate research in the arts, humanities, social sciences and education. Run entirely by postgraduate students, it encourages excellence in research through peer-reviewed publication and interdisciplinary exchange and provides hands-on experience of journal management and editing.

For more information, see [glasgow.ac.uk/esharp](http://glasgow.ac.uk/esharp)  
You will be taught and supervised by researchers of international distinction, participate in seminars led by academics, professionals, practitioners and visiting speakers, and learn with students eager to share ideas. Our connections with historical collections and the arts and creative sector in Scotland allow hands-on learning and research opportunities.

## Resources and facilities

As a postgraduate student, you will have 24-hour access to a study space. We have a phonics lab and multimedia labs, as well as analytical labs. Teaching facilities include a flexible stage theatre, cinema, concert hall, electro-acoustic music studio and audio labs, and the Edwin Morgan writing room.

Our Special Collections is one of the foremost resources in Scotland for academic research and teaching. Our holdings of medieval and renaissance manuscripts and emblem literature, are of international importance.

The Hunterian is a world-leading university museum and one of Scotland's greatest cultural assets. The original collection has grown substantially and now encompasses over 1.5 million objects.

Over one million of the items from our collections are now being moved to bespoke storage facilities at Kelvin Hall – the newly refurbished Glasgow landmark building transformed by a partnership between the University, Glasgow Sport, Glasgow Museums and the National Library of Scotland. This new centre of excellence for research, teaching, public engagement and health and wellbeing will strengthen and enhance the University's reputation for collections-based research and learning.

See page 10 for more details on the new Kelvin Hall development. For further information, see [glasgow.ac.uk/explore/campus/projects/kelvinhall](http://glasgow.ac.uk/explore/campus/projects/kelvinhall)

## Funding and scholarships

A range of scholarships and funding opportunities is available to UK, EU and international students.

For more information, see [glasgow.ac.uk/arts/graduateschool](http://glasgow.ac.uk/arts/graduateschool)

## Contact

Graduate School Administrator

Email: [arts-studentrecruitment@glasgow.ac.uk](mailto:arts-studentrecruitment@glasgow.ac.uk)



## A new understanding of the English language

The Historical Thesaurus of English has been described as 'perhaps the single most significant tool ever devised for investigating semantic, social, and intellectual history'.

The Thesaurus is a unique resource charting the semantic development of the huge and varied vocabulary of English. The book and website consist of almost every recorded word in English from Anglo-Saxon times to the present day, all arranged into detailed hierarchies of meaning. It allows readers to understand not only which words were available to discuss any given concept at any given moment in the history of the English language, but also the full range and variety of words available to English speakers at that moment in time.

Resulting from a research programme that began at Glasgow in 1965, the Thesaurus was first published in 2009 and is now in its fifth updated version. It is unique, both in its coverage and in its method; no other historical thesaurus of any language has ever been created.

# COLLEGE OF MEDICAL, VETERINARY & LIFE SCIENCES

We bring together internationally renowned experts to advance research in medical, veterinary and life sciences. Our collaborative, interdisciplinary approach means we can study processes at every level of their biological organisation.

Our students benefit from our broad base of science knowledge, state-of-the-art facilities and pioneering teaching methods, preparing them for a wide variety of careers ranging from clinical medicine and veterinary medicine, to biological and environmental science, in academic, commercial and public sectors.

## Taught and research programmes

The College of MVLS offers taught and research programmes in the following subject areas:

Biodiversity, Animal Health & Comparative Medicine (page 54)  
Cancer Sciences (page 58)  
Cardiovascular & Medical Sciences (page 60)  
Health & Wellbeing (page 133)  
Infection, Immunity & Inflammation (page 150)  
Life Sciences (page 162)  
Medicine, Dentistry & Nursing (page 179)  
Molecular Cell & Systems Biology (page 193)  
Neuroscience & Psychology (page 199)  
Veterinary Medicine (page 238)

## Research environment

Our research generates an annual income of over £106m and is focussed on improving the health and quality of life of humans and animals across the globe.

Our college is composed of seven research institutes and three schools, each designed to enhance multidisciplinary approaches to tackle major national and global bioscience and biomedical challenges.

## Learning environment

Our graduate school provides a vibrant, supportive and stimulating environment for all our postgraduate students. We aim to provide excellent support for our postgraduates through dedicated postgraduate conveners, highly trained supervisors and pastoral support for each student.

## Resources and facilities

As a postgraduate student in our college you will enjoy access to a range of facilities including:

- the Glasgow Biomedical Research Centre, which offers a multidisciplinary environment studying topics from molecular structure through to microbiology, molecular parasitology and immunobiology
- the British Heart Foundation Glasgow Cardiovascular Research Centre, which is an experimental and clinical facility that integrates research and clinical practice
- the Beatson Institute, which is one of Cancer Research UK's core funded institutes, with state-of-the-art technologies supporting cutting-edge research
- our Veterinary School at the University's Garscube Campus, which includes the Small Animal Hospital, the Weipers Centre for Equine Welfare and the new Scottish Centre for Production Animal Health & Food Safety
- the Scottish Centre for Ecology & the Natural Environment (SCENE), which is the foremost

field station in Scotland for teaching, training and research in ecology and environmental sciences.

With the NHS, the University of Glasgow has led the development of new teaching and clinical research facilities at the new Queen Elizabeth University Hospital. These include:

- a £25m purpose-built Teaching & Learning Centre for training of undergraduate medical, postgraduate and nursing students alongside NHS staff.
- a new £5m Clinical Research Facility to ensure that the hospital is at the forefront of clinical trials of new medicines.
- a £32m Imaging Centre of Excellence, which includes a 7 Tesla MRI scanner, an ultra-high resolution scanner which will be the first of its kind on a clinical site in the UK, and world-leading clinical academic expertise in stroke, cardiovascular disease, and brain imaging.

## Funding and scholarships

We have a range of scholarships and funding opportunities available for home and international students: [glasgow.ac.uk/mvlsgraduate](http://glasgow.ac.uk/mvlsgraduate)

## Contact

Tel: +44 (0)141 330 5800  
Email: [mvls-gradschool@glasgow.ac.uk](mailto:mvls-gradschool@glasgow.ac.uk)

## Glasgow scientists leading the fight against the Zika Virus

Scientists at the MRC-University of Glasgow Centre for Virus Research are carrying out world-leading research into the Zika virus, which has been declared a global health emergency by the World Health Organisation. The virus, which was discovered by University of Glasgow's Professor Alexander Haddow, has gained global notoriety in recent months due to its rapid spread through the Americas and its potential link with microcephaly which causes birth defects in infants.

Researchers at the Centre for Virus Research are stepping up work on the Zika virus with the help of £4m worth of funding from the Government's Global Challenges Research Fund, Wellcome Trust and the Newton Fund.

One of several research projects is being led by Dr Heather Ferguson, the principal investigator on looking into the ecology of Zika transmission in Ecuador and Colombia. She said:

'The ability of South American countries to effectively respond to the unprecedented recent outbreak of Zika virus is severely hampered by limited understanding of the ecology of the virus's transmission within areas where cases are rapidly expanding.'

Our project will conduct a comprehensive programme of mosquito vector surveillance and viral genotyping within four South American settings where Zika cases are recently emerging.'

For more information, visit [glasgow.ac.uk/researchinstitutes/iii/cvr](http://glasgow.ac.uk/researchinstitutes/iii/cvr)



# COLLEGE OF SCIENCE & ENGINEERING

We work to understand the world we live in, to conduct research that is relevant to global needs and to help create the emerging technologies of the 21st century.

You can be part of an exciting and stimulating environment defined by world-leading research which has an impact on the global economy. Our research spans seven academic disciplines and ranges from fundamental discovery to tackling grand societal challenges and developing new technologies.

## Taught and research programmes

The College of Science & Engineering offers taught and research programmes in the following subject areas:

Chemistry (page 72)  
Computing Science (page 76)  
Engineering (page 110)  
Geographical & Earth Sciences (page 130)  
Mathematics & Statistics (page 173)  
Neuroscience & Psychology (page 199)  
Physics & Astronomy (page 206)

## Research environment

We have expertise in the core disciplines of chemistry, computing science, engineering, geography and Earth sciences, mathematics and statistics, physics and astronomy, and psychology.

Our expertise in interdisciplinary areas includes research in:

- electronics and photonics
- energy and sustainability
- healthcare and diagnostics imaging
- materials and nanotechnology
- modelling and simulation
- security, defence and aerospace
- sensor systems
- space
- synthetic biology.

## Learning environment

Our degree programmes allow you to develop your existing knowledge and skills base or translate these from a related discipline to one in science and engineering. As a student in our college, you will benefit from support for all aspects of your studies – from application, admission, registration and induction to training, progression and examination. Each school has an academic dedicated to postgraduate research who will be available for consultation throughout your time at Glasgow.

## Career development

We support your research skills and professional development through a range of training initiatives, resources and courses. For research students, our training programme offers the necessary skills to further your career, including courses such as scientific writing, presentation skills, project management, entrepreneurship and communicating science to the public.

Professional bodies, such as the Chartered Institute for Information Technology (BCS), British Psychological Society (BPS), Royal Statistical Society (RSS) and London Mathematical Society (LMS), organise various events and courses, and we encourage you to take advantage of these. You may also be able to take advantage of opportunities to network with potential future employers, or train to become a graduate teaching assistant.

## Resources and facilities

As a postgraduate student in the College of Science & Engineering you will enjoy access to state-of-

the-art software, as well as facilities including the following:

- Centre for Cognitive Neuroimaging
- Centre for Rehabilitation Engineering
- Electronics Design Centre
- Glasgow Molecular Organic Geochemistry Laboratory
- Imaging Spectroscopy and Analysis Centre
- James Watt Nanofabrication Centre
- Kelvin Nanocharacterisation Centre
- Scottish Universities Environmental Research Centre (SERC): a dynamic research centre that is home to state-of-the-art analytical technology that we use to address major issues in environmental, earth and life sciences
- Wind tunnel facilities.

## Funding and scholarships

We are able to support home/EU and international students through a diverse scholarship portfolio which includes the various research councils, bequests, international government and industrial partners. The availability of individual scholarships will depend on the subject you wish to study and when you wish to commence your studies.

The University also supports its postgraduate community through internally funded scholarships in areas of strategic importance. Further information about current scholarships is available at [glasgow.ac.uk/scienceengineering/scholarships](http://glasgow.ac.uk/scienceengineering/scholarships)

## Contact

Tel: +44 (0)141 330 7478/7312  
Email: [scieng-gradschool@glasgow.ac.uk](mailto:scieng-gradschool@glasgow.ac.uk)

## Delving into the world of antennas

Clement Vourch (featured left) from France, recently completed a PhD in Electronics & Electrical Engineering in the College of Science & Engineering.

‘During my PhD at the University of Glasgow, I worked in the field of antenna design with a particular emphasis on low-profile leaky wave millimetre-wave antennas. More specifically, I was interested in studying the behaviour of those antennas and the way they radiate to optimise the link budget for terrestrial and inter-satellite applications.

At Glasgow, I had access to state-of-the-art technical capabilities to reach my objectives. In particular, I had access to commercial electromagnetic simulation software and near-field measurement system facility to design and characterise the antennas I developed.

This environment gave me confidence in the performance of my new antenna concepts, leading to several scientific publications in specialised journals.

My studies at the University provided me with the opportunity to interact with leaders in the field of antenna design through regular meetings and international conferences. I was also fortunate enough to receive funding through the University’s mobility scheme to visit Columbia University.

In my opinion, my valuable experiences illustrate why the University of Glasgow remains a top ranking research institution.’

For further information on PhD opportunities in Science & Engineering, visit [glasgow.ac.uk/colleges/scienceengineering/graduateschool/postgraduateresearchstudy](http://glasgow.ac.uk/colleges/scienceengineering/graduateschool/postgraduateresearchstudy)



# COLLEGE OF SOCIAL SCIENCES

Building upon the tradition of Adam Smith, our teaching and research address local and global challenges. Our impressive list of international partners includes Nankai University, with which we are promoting research on China through our Confucius Institute.

Glasgow was arguably the birthplace of the Scottish Enlightenment and at its centre stood the University, where the leading academics of the day, such as Adam Smith, developed reasoned thinking to expand knowledge to new levels of understanding.

Adam Smith, father of economics, was Professor of Logic and then Professor of Moral Philosophy at the University. Over 200 years after his death, he is still among the most influential thinkers in the field of economics today.

The college is part of the Scottish Doctoral Training Centre, which provides access to a broad range of research skills training that enhances further academic research as well as employability.

## Taught and research programmes

The College of Social Sciences offers taught and research programmes in the following subject areas:

Accounting & Finance (page 44)  
Central & East European Studies (page 67)  
Economic & Social History (page 82)  
Economics (page 85)  
Education (page 94)  
Environment, Sustainability & Tourism (page 123)  
Law (page 154)  
Management (page 166)  
Neuroscience & Psychology (page 199)  
Politics (page 210)  
Sociology (page 216)  
Urban Studies (page 228)

## Research environment

We are host to a vibrant research community and are committed to delivering an environment which nurtures and challenges our researchers at every stage of their career.

Within the social sciences, we host several dynamic research centres and centres of excellence, including the RCUK Centre for Copyright and New Business Models in the Creative Economy (CREATE), and the top-rated Urban Studies department in the UK. Our strategic research themes present a broad scope for scholarship to address global issues:

- Social justice, equity and change
- Health, well-being and social care
- Global security and risk
- Social, economic and legislative transformations
- Regulation and consumption
- Responsible innovation and sustainability

With a full professional support service in place for researchers, opportunities for funding to support new ideas are always available, including via our College Strategic Research Fund, which offers in-house funding schemes designed to develop research ideas to their full potential.

## Learning environment

We also offer an online writing programme to support and improve skills in writing, and a range of training courses including research workshops, labs and seminars that focus on social science statistics,

qualitative methods and social theory for researchers.

[glasgow.ac.uk/researchtrainingprogramme](http://glasgow.ac.uk/researchtrainingprogramme)

## Career development

Our college employability officer can give you advice and support on career planning, professional development, transferable skills training, work experience and placements.

## Funding and scholarships

A range of scholarships and funding opportunities are available for full-time and part-time study.

The University plays a leading role in the Scottish Graduate School for Social Science, which offers postgraduate scholarships via a number of designated pathways: these can be on a 2+3, 1+3 or a +3 basis. Other important sources of funding include:

- college scholarships, which provide an annual stipend in line with RCUK provision and fees paid at the Home/EU rate or International rate
- the Kelvin Smith Scholarship Scheme for interdisciplinary research projects.

For more information on scholarships and funding opportunities, visit [glasgow.ac.uk/socialsciences/graduateschool](http://glasgow.ac.uk/socialsciences/graduateschool)

## Contact

Tel: +44 (0)141 330 1990  
Email: [socsci-gradschool@glasgow.ac.uk](mailto:socsci-gradschool@glasgow.ac.uk)

## Research student spotlight

Graciela Carrillo is a PhD researcher working under the supervision of Professor Piyushimita (Vonu) Thakuriah and Dr Jinyun Hong. Her research focuses on the connection between digital literacy and transport disadvantages. Her interest is on the potential of digital literacy as an enabler of transport accessibility. As part of her research she uses data from the Integrated Multimedia City Data (iMCD) project at the University of Glasgow's Urban Big Data Centre.

'Given my interests, I feel that the University of Glasgow is the ideal place to conduct research in the transportation field. Not only does the school offer a wide range of challenging courses in the areas of transport studies, transport planning methods and advanced quantitative research methods, but graduate study also enables you to take advantage of the wider academic community in the area.'

Even the best-known professors here will work with you one-on-one and take an active interest in your progress. The school has received several grants and bursaries for postgraduate research students to allow them to undertake training at nearby universities if you can't fit your needs here.'

# A-Z OF SUBJECTS AND PROGRAMMES



# ACCOUNTING & FINANCE

Accounting & Finance at Glasgow has had an international reputation for high quality research since 1925.

We are a broad subject group, bringing together expertise in the main areas of:

- Finance and market-based research
- Financial reporting
- Management accounting and control.

We also have specialist knowledge of accounting education, accounting history, auditing and corporate governance. If you study with us, you can gain career-enhancing professional skills and a degree accredited by all the major UK professional accounting bodies.

Accounting & Finance boasts three new computer laboratories which are equipped with accounting software Sage Accounts, statistical software such as SPSS and Minitab, bibliography software such as EndNote, qualitative research software such as NVivo, and online data sources such as Company Analysis.

Accounting & Finance students have access to a dedicated Social Sciences employability officer who can help you to enhance your employability.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

[glasgow.ac.uk/  
subjects/accountingfinance/  
postgraduate](http://glasgow.ac.uk/subjects/accountingfinance/postgraduate)

## Accounting Professional Pathway 1 (ICAEW)

MAcc: 9 months full-time

This programme is aimed at those who intend to develop academically in parallel with furthering their professional qualification and careers. It has been developed in partnership with the Institute of Chartered Accountants in England and Wales (ICAEW) and provides a basis for the development of analytical and professional skills consistent with the integrated approach the University and ICAEW take to accounting, finance and business education.

 [business-accounting-finance@glasgow.ac.uk](mailto:business-accounting-finance@glasgow.ac.uk)

### Programme structure

You will take one core and two optional courses, and complete a substantive independent work portfolio. One element of the portfolio is being modelled on the requirements of the final (capstone) ICAEW case study assessment, which is designed to help you to apply your learning within a practice-based case environment. This allows you to acquire the capabilities necessary for leading positions in contemporary professional environments, and to do so in a time-efficient manner.

### Core courses

- Issues in accounting research.

### Optional courses may include:

- Accounting and business ethics
- Audit, risk and control
- Climate change policies and accountability issues
- Global issues in management accounting
- Human right and business
- Social and environmental accounting.

### Career prospects

This programme provides you with an excellent foundation for progressing the skills of the professional of tomorrow. When you complete the programme, you will have a skill set attractive to international professional accounting firms and leading industrial companies. In addition, you will have had the benefit of the University of Glasgow's excellent accounting provision, linked to the significant professional benefits of the accredited learning partner, the Institute of Chartered Accountants in England and Wales (ICAEW) – a leading professional membership organisation with significant global reach.

## Corporate Governance & Accountability

MSc: 12 months full-time

This programme will give you an international perspective on some of the most fundamentally important issues facing global business and society today and a theoretical and practical understanding of the fast-changing fields of governance and accountability.

 [business-accounting-finance@glasgow.ac.uk](mailto:business-accounting-finance@glasgow.ac.uk)

### Programme structure

You will take three core and three optional courses and complete a substantial independent piece of work, normally in the form of a dissertation, on an accounting-related theme, which gives you the flexibility to specialise based on your chosen area of interest.

### Core courses

- Foundations of international corporate finance
- International corporate governance and accountability
- Management accounting and control.

### Optional courses may include:

- Audit, risk and control
- Accounting and business ethics
- Governing risk and uncertainty
- Human rights and business
- Responsible banking and development finance
- Social accounting, reporting and finance.

### Career prospects

On completing the programme, you will have a competitive edge in the job market when looking for roles in financial services businesses, or (for existing business executives) governance positions at higher levels of the business. Companies which have employed our graduates include Ernst & Young, Deloitte, Morgan Stanley, PwC, Coca-Cola, and the United Nations.

The central role of accounting and finance in today's society makes our postgraduate degrees a sound basis for many stimulating and prestigious career opportunities and our graduates are in demand.

## Financial Modelling

MSc: 12 months full-time

This programme combines mathematical and statistical methods with advanced studies in finance. It will provide you with an enquiry-led understanding of interconnected subject areas in mathematics, statistics and finance.

 [business-accounting-finance@glasgow.ac.uk](mailto:business-accounting-finance@glasgow.ac.uk)

### Programme structure

You will take eight core courses and one optional course and complete a substantial independent piece of work. Teaching is through a combination of lectures, seminars and tutorials.

### Core courses

- Financial statistics
- International capital markets
- Introduction to R programming
- Probability
- Regression models
- Statistical inference
- Risk management and derivative securities
- Time series.

### Optional courses may include:

- Behavioural finance
- International banking and financial markets.

### Career prospects

The central role of accounting and finance in today's society makes our postgraduate degrees a sound basis for many stimulating and prestigious career opportunities and our graduates are in demand. The Adam Smith Business School has graduates working in accounting and finance roles all over the world, in organisations like Deloitte, Morgan Stanley, Turner Broadcasting, KPMG, the United Nations, Coca-Cola, Toyota and PwC.

## International Accounting & Financial Management

MAcc: 12 months full-time

This programme will provide you with current practical and theoretical knowledge of international accounting and financial management. By the end you will be able to understand and analyse the financial statements of global businesses.

**[business-accounting-finance@glasgow.ac.uk](mailto:business-accounting-finance@glasgow.ac.uk)**

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work. Teaching is through a combination of lectures, seminars and tutorials.

#### Core courses

- Foundations of international corporate finance
- International financial accounting for multinational companies
- Issues in accounting research
- Management accounting and control.

#### Optional courses may include:

- Accounting and business ethics
- Advanced international corporate reporting
- Audit, risk and control
- Climate change policies and accountability issues
- Global issues in management accounting
- Governing risk and uncertainty
- Human rights and business
- Social and environmental accounting.

#### Career prospects

The central role of accounting and finance in today's society makes our postgraduate degrees a sound basis for many stimulating and prestigious career opportunities and our graduates are in demand. The qualification can be a springboard into other areas, such as management consultancy, tax, or general management. In the last few years a growing number of our graduates have chosen to follow other paths into challenging careers in the financial sector. Companies which have employed our graduates include Ernst & Young, Deloitte, Morgan Stanley, PwC and the United Nations.

## International Corporate Finance & Banking

MSc: 12 months full-time

You will be taught by specialist lecturers who are active researchers in their fields. The programme reflects the increasing importance being attached to ethics in modern-day banking.

**[business-accounting-finance@glasgow.ac.uk](mailto:business-accounting-finance@glasgow.ac.uk)**

### Programme structure

The programme starts with a study of general market-based finance and builds from there to a detailed study of banking, with supporting courses in ethics and statistics. You will be expected to analyse and evaluate some of the key recent research in this topic area. Teaching is through a combination of lectures, seminars and tutorials.

You will take five core courses and one optional course, and complete a substantial independent piece of work, normally in the form of a dissertation, which offers you the flexibility to pursue studies in your chosen area of interest, on a theme related to financial analysis.

#### Core courses

- Financial management in banking
- Financial regulation and ethics
- International capital markets
- International corporate finance
- Statistics for business research.

#### Optional courses may include:

- Financial risk management
- International banking and financial markets
- Responsible banking and development finance.

#### Career prospects

Many of our graduates have attained various positions in the financial sector, in industry and commerce, and in the public sector. Companies which have employed our graduates include Morgan Stanley, Citigroup, Shell Finance and the United Nations.

## International Finance

MFin: 12 months full-time

This programme will give you an understanding of the financing and investment issues facing international organisations. You will also learn about the treasury function of multinational companies.

**[business-accounting-finance@glasgow.ac.uk](mailto:business-accounting-finance@glasgow.ac.uk)**

### Programme structure

You will take three core and three optional courses and undertake a substantial independent piece of work, normally in the form of a dissertation, on a finance-related theme.

#### Core courses

- International capital markets
- International corporate finance
- Statistics for business research.

#### Optional courses may include:

- Behavioural finance
- Financial analysis and equity valuation
- Financial regulation and ethics
- Financial risk management
- Governing risk and uncertainty
- International banking and financial markets
- International financial management
- Mergers and acquisitions
- Responsible banking and development finance
- Risk management and derivatives securities.

#### Career prospects

The central role of accounting and finance in today's society makes our postgraduate degrees a sound basis for many stimulating and prestigious career opportunities and our graduates are in demand. The programme will prepare you for a career in finance or to pursue research studies in finance. You will develop the background to work in a variety of financial functions, and for a variety of businesses such as banks, insurance companies and financial service companies. Working in mainstream industries and commercial services firms is also a possibility. Companies which have employed our graduates include Ernst & Young, Deloitte, Morgan Stanley, PwC and the United Nations.

## International Financial Analysis

MSc: 12 months full-time

This programme is designed to assist you to obtain a professional financial qualification and equip you with knowledge essential for a successful career in financial analysis, investment management and allied financial services.

**[business-accounting-finance@glasgow.ac.uk](mailto:business-accounting-finance@glasgow.ac.uk)**

### Programme structure

You will take five core courses and one optional course, and complete a substantial independent piece of work, normally in the form of a dissertation, which offers you the flexibility to pursue studies in your chosen area of interest.

#### Core courses

- Financial analysis and equity valuation
- Financial reporting and interpretation
- International capital markets
- International corporate finance
- Statistics for business research.

#### Optional courses may include:

- Financial management in banking
- Financial risk management
- International financial management
- Risk management and derivative securities.

#### Career prospects

This programme provides a good starting point for aspiring finance professionals who intend to pursue their career in providing financial services to a wide range of corporate and non-corporate clients. It is particularly suitable if you wish to pursue a professional career in areas including equity research, sell-side analysis and fund management. Recent graduates have been employed by global companies such as Morgan Stanley, Unilever, Deloitte and Johnson & Johnson.

**Research opportunities**

We offer PhDs in the following research areas:

- Accounting
- Finance (Accounting and Finance)
- Accounting and Finance.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/accountingfinance](http://glasgow.ac.uk/research/opportunities/subjects/accountingfinance)

I chose the University of Glasgow Adam Smith Business School because it is highly renowned with strong research in accounting and finance. My experience taught me skills in planning and prioritising work, and improved my self-learning. I also enjoyed living in a big city, and the museums and architecture are fantastic.'

Yiwei, China

International Accounting & Financial Management (MAcc) student

**American Studies**

MLitt: 12 months full-time; 24 months part-time

The MLitt in American Studies is the only Masters programme in Scotland that provides an interdisciplinary focus on how the United States developed. Why did American culture, politics and business become so dominant in the 19th and 20th centuries, and in what directions might they be headed in the 21st century?

 [humanities-\*\*pg\*\*@glasgow.ac.uk](mailto:humanities-<b>pg</b>@glasgow.ac.uk)

**Programme structure**

You will take two core courses and choose three optional courses. The programme draws on a wide array of subject areas – literature, history, film and television studies, popular music, art history, religious studies, archaeology, and politics – to foster understanding of the overarching themes, as well as complexities, of American life.

The culmination of the MLitt in American Studies is your dissertation. You will choose a topic based on the breadth of perspectives that you have explored and conduct original primary source research. You will be supported in your research and writing by an assigned supervisor with expertise in your specific field of interest.

**Core courses**

- Approaches to American studies
- Topics and methods in American studies.

**Career prospects**

The skills you will gain include critical, analytical, and written and oral communication skills, as well as the specific understanding of American history and culture, offering you a broad range of career choices.

The programme provides you with an excellent foundation to study for a PhD and to establish an academic career. Other graduates have used their specialist knowledge of America in their media, business and teaching careers.

Positions held by recent graduates include Teacher and Alumni & Development Officer.

**Research opportunities**

We offer the following research study options:

PhD, MLitt, MPhil and MRes in American Studies.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit:  
[glasgow.ac.uk/research/opportunities/subjects/american](http://glasgow.ac.uk/research/opportunities/subjects/american)

## ANCESTRAL STUDIES

We are proud to offer an interdisciplinary and innovative programme in Ancestral Studies which, if you choose to study with us, would open up the opportunity to contribute to, and shape, a new academic field of research. Our programmes draw upon a wide variety of academic fields such as literature, history, theology, music, history of art, politics, anthropology and media studies. Study with us and you will be equipped with a well-balanced and broad set of transferable skills including practical research skills and the opportunity to present your research to your peers.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

### Research opportunities

We offer an MRes in Ancestral Studies.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit:  
[glasgow.ac.uk/schools/humanities/ancestralstudies/research](http://glasgow.ac.uk/schools/humanities/ancestralstudies/research)

### Ancestral Studies

**MSc:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time; 18 months part-time

Ancestral Studies is a brand new interdisciplinary and innovative programme. It is the first of its kind in the world. Whether your interests lie in archaeology, history, material culture, heritage, museums or archives, this programme allows you to study across multiple disciplines, create your own curriculum and pursue self-directed unique research.

 [humanities-ug@glasgow.ac.uk](mailto:humanities-ug@glasgow.ac.uk)

#### Programme structure

This programme is comprised of two core courses and several optional courses. This structure allows you to shape your own curriculum and tailor it to your interests.

#### Core courses

Research Methods for Ancestral Studies introduces you to key research methodologies and practices drawn from a range of disciplines. You will receive an introduction to specialist and transferable skills such as working with archives and online genealogical resources, visual culture, heritage landscapes, museums and material culture. Emphasis is placed on the interpretation of primary sources.

Approaches to Ancestral Studies provides a conceptual framework for exploring core themes of the discipline through weekly topics drawn from multiple disciplines. You will consider questions of identity (genetic and social), examine current trends in family history and heritage research and address questions of past generations and their experiences of place, language and material culture. You will be exposed to theoretical, critical and practical insights from across the arts, humanities and sciences to explore ancestry, relational identity, intellectual inheritance and memory works.

#### Optional courses may include:

Optional courses may be taken from History, Archaeology, Celtic & Gaelic, and more.

#### Career prospects

The combination of practical and theory-based learning will equip you with a well-balanced and broad set of transferable skills. You will have practical research skills in primary and secondary sources (from artefacts to archives), the ability to critically evaluate sources, to debate and formulate your own arguments and theories, and to present your research to your peers.

Potential career paths include academic and commercial archaeology and a variety of positions in museums, galleries, archives and libraries, or in the growing ancestral tourism sector.

## ARCHAEOLOGY

Archaeology at the University of Glasgow is a vibrant community of students and staff working together and in partnership with a range of heritage organisations.

Archaeology has been taught at Glasgow for over 50 years and is recognised for its commitment to excellent teaching and research. Our Masters programmes address practical, theoretical and scientific methodologies through a collection of seminars, work placements and fieldwork.

As a subject, we work across other disciplines including History, Classics, Geography and Earth Science, American Studies, Celtic & Gaelic and Information Studies. Strong links with the Hunterian Museum and Art Gallery and numerous private and public organisations including Historic Environment Scotland and commercial heritage providers and practitioners allow our students to gain field experience and benefit from a variety of visiting guest speakers.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Celtic & Viking Archaeology

**MLitt:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time; 18 months part-time

The Masters in Celtic & Viking Archaeology provides an introduction to both theory and practice in approaches to early medieval archaeology, based on our particular research strengths in the settlements and material culture of Celtic, Pictish and Viking peoples, and in the archaeology of kingship and political development.

 [humanities-ug@glasgow.ac.uk](mailto:humanities-ug@glasgow.ac.uk)

#### Programme structure

You will take two core courses and three optional courses. For the MLitt you will produce a dissertation on a specialist topic agreed with the course convener.

The core courses provide you with a theoretical background to the study of early medieval archaeology, examining themes such as burial, settlement and material culture.

#### Core courses

- Approaches to Celtic and Viking archaeology
- Research skills.

#### Optional courses may include:

Three optional courses must be selected, two of which come from the following:

- Themes in early medieval Scottish archaeology
- Early Christian monuments of Scotland
- Early medieval artefacts
- Viking and late Norse artefacts
- Norse in the North Atlantic, AD 800 – 1500
- Viking and late Norse British Isles.

You may also choose one of the following options from a cognate Masters by agreement with the course convener:

- Independent study
- Artefact studies
- Multimedia analysis and design or 2D digitisation.

#### Career prospects

Graduates have gone on to work for various heritage bodies such as the National Museum of Scotland, and for UK-based commercial archaeology firms.

Positions held by recent graduates include Field Archaeologist, Open Learning Tutor, university lectureships and research managers.

The programme provides an excellent platform for you to move on to PhD studies and an academic career.

## Conflict Archaeology & Heritage

**MLitt:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time; 18 months part-time

The Masters in Conflict Archaeology & Heritage specialises in the archaeological approaches to battlefields and other aspects of conflict archaeology.

**✉** [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

The taught programme consists of three core courses which will provide a general framework for the study of conflict archaeology and heritage, accompanied by three more specialised optional courses. For the MLitt you will produce a dissertation on a specialist topic agreed with your supervisor.

#### Core courses

- Research and professional skills
- The art of war: concepts and theories
- Method and practice in conflict heritage.

#### Optional courses may include:

You need to choose three options in total; two options are selected from the following:

- Modern warfare
- British battlefields.

One option is selected from any of the specialist courses offered in the Archaeology, War Studies or other relevant programmes.

#### Career prospects

The Centre has an excellent track record of students going on to employment in universities, museums, commercial archaeology, government agencies, and archives both here and abroad. The MLitt in particular has proved to be an excellent platform for progression into PhD studies at universities both in the UK and overseas.

## Material Culture & Artefact Studies

**MSc:** 12 months full-time;  
24 months part-time

**PgDip:** 9 months full-time;  
18 months part-time



Material culture and artefact studies combines the archaeological recovery and specialist examination of an object with its presentation, management and understanding within a cultural context.

**✉** [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

The taught component consists of core courses and optional courses, running over two semesters.

Assessment is normally focused on written performance, but oral presentation skills and other modes of assessment allow you to develop your writing skills in a number of formats. This is in addition to the practical emphasis on developing your ability to interpret and analyse artefacts.

For the MLitt you can opt for a dissertation OR an extended work placement (assessed by work placement e-portfolio and a research report or a student exhibition design).

#### Core courses

- Material culture in context
- The process of artefact studies.

#### Optional courses may include:

- Lithic analysis
- Independent study
- Critical themes in the display and reception of objects
- Early medieval artefacts
- Viking and late Norse artefacts (AD 750 – 1350).

Optional courses drawn from Archaeology or from other programmes across the University can be taken by agreement with the programme convener.

#### Career prospects

The two strands to the degree enable you to prepare for further doctoral research while also providing opportunities for valuable vocational experience via our substantial work placements. Past graduates have full-time positions in UK museums and in commercial archaeology units as well as Historic Environment Scotland. International graduates have found employment with the Smithsonian, and other US regional museums, like the Pink Palace Museum, Memphis.

## Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil and MRes.

Our research areas include:

- Scottish archaeology, particularly in the Mesolithic and Neolithic periods and the Celtic, Pictish and Viking areas
- Prehistoric artefacts including textiles and clothing
- Mediterranean archaeology, from Spain to Turkey, from Bronze Age mining to postcolonial studies
- Historical archaeology
- Battlefield and conflict archaeology.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/archaeology](http://glasgow.ac.uk/research/opportunities/subjects/archaeology)

# BIODIVERSITY, ANIMAL HEALTH & COMPARATIVE MEDICINE

Biodiversity, Animal Health & Comparative Medicine combines expertise in animal biology and ecology with extensive knowledge of comparative and veterinary medicine.

Unique in the UK, the range of our research spans multiple biological levels, integrating:

- Molecules and cells
- Individuals
- Human populations and ecosystems.

Given the threats posed by environmental change and rapidly increasing human population, there's never been a more urgent need for a holistic approach.

With this belief in mind, we bring together rigorous quantitative analysis, appropriate theoretical frameworks and predictive modelling to help us understand the interdependence of animal and human populations, ecosystems and the environment.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Animal Welfare Science, Ethics & Law

**MSc:** 12 months full-time

**PgDip:** 9 months full-time

Animal welfare science and ethics is an expanding topic of international concern, which is why the University of Glasgow offers an Animal Welfare MSc programme. It aims to improve our knowledge and understanding of animals' needs, which is required to provide a high standard of care to the whole range of animals kept in captivity.

**e** [mvls-awsel@glasgow.ac.uk](mailto:mvls-awsel@glasgow.ac.uk)

### Programme structure

#### Core courses

- Key research skills: Scientific communication; Introduction to R; Advanced linear models; Experimental design and power analysis
- Animal ethics
- Animal welfare science
- Legislation related to animal welfare
- Independent research project.

#### Optional courses may include:

- Enrichment of animals in captive environments
- Care of captive animals
- Biology of suffering
- Assessment of physiological state
- Freshwater sampling techniques
- Marine sampling techniques
- Invertebrate identification
- Vertebrate identification
- Molecular analyses for DNA barcoding and biodiversity measurement
- Phyloinformatics
- Conservation genetics and phylodynamics
- Infectious disease ecology and the dynamics of emerging disease
- Single-species population models
- Multi-species models
- Introduction to Bayesian statistics.

#### Career prospects

You will be exposed to potential work places and can make valuable contacts with professionals in the welfare community. Where possible this is a two-way exchange in which communities are offered help with any issues they have and for which assistance may be provided in finding a solution (e.g. through independent research projects, supervised by university staff).

## Conservation Management of African Ecosystems

**MSc:** Double Masters degree: 24 months full-time

This programme is a unique, double Masters programme implemented jointly with the Nelson Mandela African Institution of Science and Technology in Arusha, Tanzania. A key feature of the programme will be, following a taught component in Glasgow, the opportunity to carry out an in-depth research project over 15 months in one of the major conservation areas of Tanzania. Successful students will qualify with a Masters degree from the University of Glasgow and a Masters degree from the Nelson Mandela African Institution of Science and Technology.

**e** [mvls-cmae@glasgow.ac.uk](mailto:mvls-cmae@glasgow.ac.uk)

### Programme structure

The programme consists of two semesters of taught courses based at Glasgow.

Following the taught courses you will travel to Tanzania to undertake training and research at one of the major conservation areas in that country. During this time you will be registered for 12 months with the Nelson Mandela African Institution of Science and Technology in Arusha, northern Tanzania.

A final three months of the research period will be linked to the University of Glasgow but, by common agreement with the supervisors, students may remain in Tanzania for this period, or study back at Glasgow.

Successful completion of the full course will lead to the award of two Masters degrees – one from the University of Glasgow, and one from the Nelson Mandela African Institution of Science and Technology. The Nelson Mandela African Institution of Science and Technology will recognise the credits from the taught courses at Glasgow as part of the NMAIST Masters degree. An exit point following successful completion of the taught parts of the course without completion of the research component may be awarded a PgDip from the University of Glasgow.

## Ecology & Environmental Biology

**MRes:** 12 months full-time

**PgDip:** 9 months full-time

This Master of Research (MRes) programme in Ecology and Environmental Biology provides research training for those wishing to enter a PhD programme or seeking a career in ecological science.

**e** [mvls-ecolbio@glasgow.ac.uk](mailto:mvls-ecolbio@glasgow.ac.uk)

### Programme structure

The MRes consists of a taught component, and a laboratory or field-based research project. The courses consist of core research skills and specialist options in analytical and sampling techniques. The main part of the degree, however, is devoted to experience of research techniques. You will carry out an extended two-part research project, chosen to reflect your interests and the skills you wish to acquire.

### Career prospects

You will be provided with excellent training for applying for a PhD programme or entering ecological consultancy or conservation sectors. This MRes also serves as a valuable introduction to UK research for overseas students.

There are opportunities to undertake research work in the UK and overseas. MRes projects in recent years have included travel to southern Brazil, Trinidad, Tobago, Kuwait, Egypt, Svalbard (Norway), Canada, the Azores (Portugal), Oman, Cayman Islands, and the Philippines.

## Quantitative Methods in Biodiversity, Conservation & Epidemiology

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

This programme provides specific training in data collection, modelling and statistical analyses as well as generic research skills. It is offered by the Institute of Biodiversity, Animal Health & Comparative Medicine (IBAHCM), a grouping of top researchers who focus on combining field data with computational and genetic approaches to solve applied problems in epidemiology and conservation.

**E** [mvls-qmbce@glasgow.ac.uk](mailto:mvls-qmbce@glasgow.ac.uk)

### Programme structure

#### Core courses

- Key research skills (scientific writing, introduction to R, advanced linear models, experimental design and power analysis)
- Spatial ecology and biodiversity
- Programming in R
- Independent research project.

#### Optional courses may include:

- Invertebrate identification
- Vertebrate identification
- Molecular analyses for biodiversity and conservation
- Biodiversity informatics
- Molecular epidemiology and phylodynamics
- Infectious disease ecology and the dynamics of emerging disease
- Single-species population models
- Multi-species models
- Spatial processes
- Introduction to Bayesian statistics
- Animal welfare science
- Legislation related to animal welfare
- Enrichment of animals in captive environments
- Care of captive animals
- Biology of suffering
- Assessment of physiological state.

#### Career prospects

You will gain core skills and knowledge across a wide range of subjects that will enhance your selection chances for competitive PhD programmes. In addition to academic options, career opportunities include roles in zoos, environmental consultancies, government agencies, ecotourism and conservation biology, and veterinary or public health epidemiology.

## Wildlife & Livestock Management (online)

### MSc Online Distance Learning:

36 months part-time

### PgDip Online Distance Learning:

24 months part-time

### PgCert Online Distance Learning:

12 months part-time

Humans are dependent on and live in close proximity with their livestock, and the interfaces of livestock with wildlife are permeable and complex. This programme addresses a clear need to integrate ecological disciplines with studies of disease in wildlife, livestock and human populations, with concepts of land management, livestock production and wildlife management.

**E** [mvls-wlm@glasgow.ac.uk](mailto:mvls-wlm@glasgow.ac.uk)

### Programme structure

The aims of the programme are to:

- integrate ecological disciplines with studies of disease in wildlife, livestock and human populations with basic concepts of land management, livestock production and wildlife management
- comprehensively examine the factors that influence the management of wildlife and livestock species, including human culture and the physical environment
- provide training in the use of analytical tools for wildlife, livestock and land management.

### Career prospects

This programme will suit those who need to broaden their knowledge and skills to improve their employability in organisations that have a mandate to provide services to diverse stakeholders in complex systems. Veterinarians in government agencies with wide-ranging responsibilities, in conservation organisations and in NGOs would find this particularly useful.

## Research opportunities

We offer PhDs in the following research areas:

- Ageing, health and welfare
- Animal ecology and environment
- Infectious disease
- Evolutionary analysis.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/subjects/bahcm/research](http://glasgow.ac.uk/subjects/bahcm/research)

‘The programme greatly exceeded my expectations. I now have an advantage in today’s job market. It has expanded my knowledge base and given me the skills needed to excel further in this field. This programme also provided me with the knowledge and skills needed to pursue a PhD and the opportunity to get hands-on experience in the field of animal welfare through a variety of field trips and lectures from leading individuals in the field.’

Mia, USA

Quantitative Methods in Biodiversity, Conservation & Epidemiology (MSc) graduate

# CANCER SCIENCES

At Glasgow we bring together scientists and clinicians to promote and develop the best in cancer research, drug discovery and patient care. We are ranked among the top 50 universities in the world for medicine and health.

We work together to:

- identify the molecular changes that cause cancer
- develop drugs targeted to these changes
- bring new therapies through preclinical and clinical trials.

The Cancer Research UK Glasgow Centre brings together scientists and clinicians from research centres, universities and hospitals around Glasgow to deliver the very best in cancer research, drug discovery and patient care. The Centre's world-leading teams have made major advances in the understanding and treatment of many cancers.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Cancer Sciences

**MSc:** 12 months full-time

This Masters in Cancer Sciences will prepare you for a career in cancer science, whether you aim to pursue a PhD or further medical studies, or seek a career in the health services sector or in the life sciences, biotechnology or pharmaceutical industries. Our programme takes a 'bench to bedside' approach, enabling graduates to work within a multidisciplinary environment of world-leading scientists and cancer specialists to address the latest challenges in cancer research.

**E** [mvls-cancersci@glasgow.ac.uk](mailto:mvls-cancersci@glasgow.ac.uk)

### Programme structure

#### Semester 1

- Hallmarks of cancer.

#### Semester 2

In the second semester, you can choose from a range of optional courses, before taking the core course 'Designing a Research Project':

- Drug discovery
- Diagnostic technologies and devices
- Advanced nucleic acids
- Drug development and clinical trials
- Viruses and cancer
- Technology transfer and commercialisation of bioscience research
- Current trends and challenges in biomedical research and health
- Frontiers in cancer sciences
- Omics technologies for the biomedical sciences
- Clinical genomics
- Designing a research project: biomedical research methodology.

#### Semester 3

- Bioscience Research Project.

### Career prospects

The knowledge and transferable skills developed in this programme will be suitable for those contemplating a PhD or further medical studies; those wishing to work in the health services sector; and those interested in working in the life sciences, biotechnology or pharmaceutical industries, including contract research organisations (CROs). This programme is designed for those with undergraduate degrees in the life sciences, scientists working in the pharmaceutical and biotechnology industries, and clinicians and other healthcare professionals.

## Research opportunities

We offer PhDs in the following research areas:

- Cancer biology and cell signalling
- Epigenetics
- Cancer stem cell biology
- Cancer imaging
- Chemoresistance in cancer
- Cancer and ageing
- Regulation of cancer cell death processes
- Genetics, genomics and systems medicine
- Immunotherapy for cancer
- Cancer clinical trials.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/cancer](http://glasgow.ac.uk/research/opportunities/subjects/cancer)

# CARDIOVASCULAR & MEDICAL SCIENCES

At Glasgow we bring together basic, translational and clinical research in cardiovascular and medical sciences. We are ranked among the top 50 universities in the world for medicine and health.

Our research groups are based in the purpose-built British Heart Foundation Glasgow Cardiovascular Research Centre, the West Medical Building, and the Royal Infirmary. Much of our teaching is delivered at the brand new Teaching & Learning Centre at the Queen Elizabeth University Hospital, which combines NHS, University and research sector expertise on a single site. These state-of-the-art facilities enable us to focus on a comprehensive research and teaching agenda.

Areas of expertise include:

- Cardiovascular sciences
- Stroke/cerebrovascular disease and care of the elderly
- Exercise physiology/sports medicine
- Clinical genetics/genomics.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Cardiovascular Sciences

**MSc (Med Sci):** 12 months full-time

Cardiovascular disease is projected to remain the single leading cause of death over the next two decades, accountable for considerable disability and reduction in quality of life. This Masters in Cardiovascular Sciences will include specialist training in the epidemiological nature of the disease, in combination with analysis of the cellular and molecular mechanisms that underlie its development.

**[mvls-cvsciences@glasgow.ac.uk](mailto:mvls-cvsciences@glasgow.ac.uk)**

### Programme structure

#### Core courses

- Clinical aspects of cardiovascular disease
- Established and novel research techniques
- Evidence-based research in medicine
- Medical statistics
- Topics in therapeutics: general topics and cardiovascular disease
- Topics in therapeutics: commonly used drugs
- Pharmacogenomic and molecular medicine – fundamentals of molecular medicine
- Pharmacogenomic and molecular medicine – applied pharmacogenomics and molecular medicine.

#### Optional courses may include:

- Basic science diabetes and vascular disease
- Clinical and research audit.

In addition to the taught courses you will take part in student-led critical review sessions where you will provide a critical appraisal of a scientific research paper taken from current literature. You will also take part in an introductory session on how to review a scientific paper, designed to give you experience of reading, summarising and presenting the findings of a scientific publication in a critical manner.

In addition you will undertake a dissertation/project supervised by an established cardiovascular researcher.

#### Career prospects

Successful graduates will emerge equipped with the skills necessary for a career in the highly competitive field of cardiovascular research. Career opportunities include education, clinical translational cardiovascular research, public health bodies or commercial industrial research in the field of cardiovascular medicine. Students who have completed this programme are currently employed in the NHS, PhD programmes, academia and industry.

#### Why choose Glasgow?

- Cardiovascular research at the University of Glasgow is rated in the UK's top 10 and has a research grant income of £50m.
- Research for the MSc in Cardiovascular Sciences is supported by the BHF, MRC, Wellcome Trust, CSO, BBSRC and the European Commission.

## Clinical Pharmacology

**MSc (Med Sci):** 12 months full-time; 24 months part-time

This Clinical Pharmacology degree programme offers focused training which integrates basic and clinical sciences, and equips you with the essential skills required to function effectively as a clinical pharmacologist in the 21st century. As a student on the MSc Clinical Pharmacology programme, you will acquire core skills, enabling an appreciation of how to apply clinical pharmacological, regulatory and ethical principles to the optimisation of therapeutic practice and clinical research. Crucially, in addition to a firm grasp of the principles of molecular pharmacology, you will also gain foundational knowledge in the emerging science of pharmacogenomics and personalised medicine.

**[mvls-clinpharm@glasgow.ac.uk](mailto:mvls-clinpharm@glasgow.ac.uk)**

### Programme structure

You will attend lectures, seminars and tutorials and take part in lab, project and team work.

#### Core courses

- Principles of pharmacology
- Drug disposition
- Pharmaceutical medicine
- Topics in therapeutics: general topics and cardiovascular drugs
- Topics in therapeutics: commonly used drugs
- Medical statistics
- Fundamentals of molecular medicine
- Applied pharmacogenomics and molecular medicine.

In addition you will undertake a dissertation/project.

#### Career prospects

Career opportunities include positions in academia, healthcare and the pharmaceutical industry; returning to more advanced positions within a previous clinical environment (e.g. pharmacists, clinicians); and PhD study.

#### Why choose Glasgow?

- This MSc is based in a research-intensive environment steeped in Glasgow's rich history of clinical pharmacology. We specialise in large-scale, high-impact, international clinical trials and are leading developments in personalised medicine.
- This programme is one of only a select few in the UK with sufficient breadth and depth of expertise in clinical pharmacology to help support your career development in this field in the 21st century.

## Clinical Trials & Stratified Medicine

**MSc:** 12 months full-time

Stratified Medicine holds huge potential in the timely development of new treatments for human disease. It is among the most important concepts to emerge in 21st-century clinical science and will be a crucial component of the global drive to increase the efficacy, safety and cost-effectiveness of new treatments. This new taught postgraduate Masters programme draws on the current and future needs of the life sciences sector, to create a highly skilled workforce.

**[mvls-ctsm@glasgow.ac.uk](mailto:mvls-ctsm@glasgow.ac.uk)**

### Programme structure

You will undertake core courses which will account for 90 credits and a further 30 credits from options which will enable you to personalise your degree to better align it with your future career aspirations. You will also be offered a choice of project.

#### Core courses

- Topics in therapeutics: general topics and cardiovascular disease
- Pharmacogenomics and molecular medicine: fundamentals of molecular medicine
- Medical statistics 1
- Evidence-based research in medicine
- Drug disposition
- Clinical trials: principles and methods.

#### Optional courses may include:

- Pharmacogenomics and molecular medicine: applied pharmacogenomics and molecular medicine
- Topics in therapeutics: commonly used drugs
- Pharmaceutical medicine
- Medical statistics 2
- Established and novel techniques in cardiovascular and medical sciences research.

**You will also undertake a project and assessment.**

#### Career prospects

Graduates of this programme will be competitive applicants for positions in the commercial life sciences sector, or for PhD study in an academic or combined commercial/academic environment.

#### Why choose Glasgow?

- The programme will cover the principles which underpin the emerging science at the interface between genetics and pharmacology and the clinical evaluation of the resultant new medicines, taught by internationally recognised experts.
- The aim of this programme is to train researchers who can break down the barriers that currently prevent discoveries at the bench from being translated into treatments at the bedside.

## Diabetes

**MSc (Med Sci):** 12 months full-time

In response to the global epidemic in obesity and diabetes the University of Glasgow has developed this MSc in Diabetes. To address the immense challenge presented by this disease, it is essential that the researchers and medical practitioners of tomorrow understand the cutting-edge advances and technologies to tackle diabetes.

**[mvls-diabetes@glasgow.ac.uk](mailto:mvls-diabetes@glasgow.ac.uk)**

### Programme structure

The programme is made up of eight compulsory courses: two are of 20 credits (one in each semester) and six are of 10 credits (four in the first semester and two in the second semester). In addition, you will select two optional 10-credit courses from a choice of four in the second semester. You will also be offered a choice of dissertation/research project of 60 credits.

#### Core courses

- Clinical aspects of diabetes
- Cardio-metabolic disease
- Basic science of diabetes and vascular disease
- Topics in therapeutics 1
- Human physiological and metabolic assessment
- Established and novel technologies in cardiovascular and medical sciences research
- Evidence-based research in medicine
- Statistics 1.

#### Optional courses

- Clinical and research audit
- Statistics 2
- Applied research in human nutrition and metabolism
- Disease screening in populations.

In addition, you will undertake a dissertation. You will undertake an independent piece of research in the area of diabetes under the supervision of a project supervisor. Projects may take a number of different formats including a literature review, meta-analysis, data audit or secondary analysis, laboratory-based project, or clinical/human volunteer-based investigation.

#### Career prospects

Graduates may wish to pursue a career in diabetes clinical research. Other opportunities for diabetes specialists are available in education, public health and professions allied to medicine. The MSc in Diabetes also provides an excellent basis to pursue PhD-level research.

#### Why choose Glasgow?

- This is one of the only MSc in Diabetes programmes focused entirely on research rather than healthcare management. You will be taught by world-leading clinicians and scientists.
- The University has state-of-the-art research facilities to study obesity, metabolic disease and diabetes from the whole body to the molecular level and you will undertake a research project/dissertation in this area.

## Sport and Exercise Science & Medicine

**MSc:** 12 months full-time; 24 months part-time

This programme will provide you with an advanced, research-led programme of study in sport and exercise science and medicine. Its flexibility enables you to specialise in physical activity and health, sports performance, or sports medicine.

**[mvls-sesm@glasgow.ac.uk](mailto:mvls-sesm@glasgow.ac.uk)**

### Programme structure

The programme is made up of 60 compulsory credits, 3 x 20 credit options (X, Y and Z) and a research project.

#### Core courses

- Evidence-based research in medicine
- Medical statistics
- Physiological exercise testing 1: aerobics fitness and physical activity
- Physiological exercise testing 2: strength, power and intensity domains
- Human physiological and metabolic assessment.

#### Optional courses

Choose one X option, one Y option and one Z option.

#### Option courses X

- Physical activity and health: public health, policy and behaviour changes
- Sports injuries: scientific basis of prevention and rehabilitation
- Clinical sports injuries.

#### Option courses Y

- Physical activity and health: biological mechanisms
- Ergogenic aids for exercise performance
- Sport and exercise medicine in practice.

#### Option courses Z

- Cellular and molecular exercise physiology
- The world-class athlete: nature, nurture and maximising performance
- Exercise in clinical populations.

#### Career prospects

The flexibility of this programme will provide you with many career opportunities. These include working in clinical exercise, health promotion or sports science support. A number of our graduates are employed in senior sports science positions with national sporting bodies and professional sports clubs.

#### Why choose Glasgow?

- This is the only MSc in Sports Science in Scotland that merges Sport and Exercise Medicine and Sport and Exercise Science within a single degree programme providing a broad range of options across these disciplines.
- You will benefit from access to the facilities and resources of the National Stadium Sports, Health and Injury Clinic at Hampden Park – a custom-built, state-of-the-art sports medicine facility.

## Sport and Exercise Science & Medicine (online)

**MSc:** 36 months part-time;

**PgDip:** 24 months part-time;

**PgCert** 12 months part-time

This online programme will provide you with an advanced, research-led programme of study in sport and exercise science and medicine. Its flexibility enables you to specialise in physical activity and health, sports performance, or sports medicine.

**[mvls-sesm@glasgow.ac.uk](mailto:mvls-sesm@glasgow.ac.uk)**

### Programme structure

The programme will involve online lectures, seminars and tutorials, and a residential week at the end of year 1.

The programme is made up of 60 compulsory credits and 3 x 20 credit options (X, Y and Z) plus a research project (60 credits).

#### Core courses

- Evidence-based research in medicine
- Medical statistics
- Physiological exercise testing 1: aerobics fitness and physical activity
- Physiological exercise testing 2: strength, power and intensity domains
- Human physiological and metabolic assessment.

#### Optional courses

Choose one X, one Y and one Z option:

#### Option courses X

- Physical activity and health: public health, policy and behaviour changes
- Sports injuries: scientific basis of prevention and rehabilitation
- Clinical sports injuries.

#### Option courses Y

- Physical activity and health: biological mechanisms
- Ergogenic aids for exercise performance
- Sport and exercise medicine in practice.

#### Option courses Z

- Cellular and molecular exercise physiology
- The world-class athlete: nature, nurture and maximising performance
- Exercise in clinical populations.

#### Career prospects

Career opportunities include working in clinical exercise, health promotion or sports science support. Some of our graduates are employed in senior sports science positions with national sporting bodies and professional sports clubs.

#### Why choose Glasgow?

- This is the only MSc in Sports Science in Scotland that merges Sport and Exercise Medicine and Sport and Exercise Science within a single degree programme, providing a broad range of options across these disciplines.

## Stratified Medicine & Pharmacological Innovation

**MSc:** 12 months full-time

Stratified Medicine holds huge potential in the timely development of new treatments for human disease. It is among the most important concepts to emerge in 21st-century clinical science and will be a crucial component of the global drive to increase the efficacy, safety and cost-effectiveness of new treatments. This taught postgraduate Masters programme draws on the current and future needs of the life sciences sector, to create a highly skilled workforce, and is being developed in conjunction with the industrial partners of the Stratified Medicine Scotland Innovation Centre (SMS-IC).

**[mvls-smpi@glasgow.ac.uk](mailto:mvls-smpi@glasgow.ac.uk)**

### Programme structure

This MSc degree, funded by the Scottish Funding Council, is awarded jointly by the Universities of Glasgow, Aberdeen and Strathclyde. Courses included in this programme are delivered by these three institutions as well as the Universities of Dundee and Edinburgh. You will be offered a choice of base institution, either Glasgow or Aberdeen.

#### Scientific basis of stratified medicine

- Small molecule drug discovery
- Biological drug discovery
- Pharmacogenomics and molecular medicine.

#### Commercialisation of science

- Introduction to bio-business
- Advanced bio-business
- New venture creation
- Regulation and governance of new therapies.

#### Application of research and evaluation of new technologies

- Clinical trials: principles and methods
- Applied statistics with routine health datasets
- Spatial epidemiology
- Applied health economics.

#### Career prospects

Graduates will be able to pursue careers in a variety of academic and industrial areas including clinical research, preclinical lab-based research, business development with expert knowledge in life sciences and bioinformatics/biostatistics.

#### Why choose Glasgow?

- You will be given the unique opportunity to undertake an industry placement as their main project. This fantastic opportunity will be offered by partner commercial organisations/companies and universities.
- The programme will cover aspects of commercial innovation and entrepreneurial skills, together with the principles which underpin the emerging science at the interface between genetics and pharmacology.

## Translational Medicine

**MRes:** 12 months full-time of a 48-month full-time PhD

This Masters in Translational Medicine is the first year of a British Heart Foundation four-year PhD studentship: it is not offered as an individual programme of study.

 [ruth.bennett@glasgow.ac.uk](mailto:ruth.bennett@glasgow.ac.uk)

### Programme structure

The programme is part of a four-year PhD with the first year being an MRes. The MRes is made up of three individual 12-week research placements after an intensive two-week induction. Each project will be based on different themes with three different supervisors. Years 2 – 4 make up the PhD portion of the programme.

### Induction

You will be required to attend an in-depth introductory programme, which will provide training in research ethics, statistics, project design, literature review and laboratory safety techniques.

### Placements

The induction is followed by three individual research placements. These are at the core of this programme, providing three separate projects to allow you to define your areas of interest for your PhD studies. Each placement is a 12-week project and this will be with three different principal supervisors. You will be encouraged to choose placements beyond your undergraduate subject experience to maximise your exposure to new techniques and science. Supervisors are drawn from a wide range of academic disciplines, such as medicine, biomedical and life sciences, mathematics, electronics and electrical engineering, and veterinary medicine.

### Career prospects

You will be taught the practical laboratory skills needed to pursue a career in basic translational medicine and applied science through research projects. After successfully completing year 1, you will be awarded an MRes, and progress to a PhD. The programme produces fully trained scientists ready for progression to academic or industrial careers.

### Research opportunities

We offer PhDs in the following research areas:

- Cardiac research
- Vascular research
- Metabolic disease and diabetes research
- Renal research
- Stroke research
- Omics research.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/subjects/cms/research](http://glasgow.ac.uk/subjects/cms/research)

## CELTIC & GAELIC

83% of Celtic & Gaelic research overall was classed as world-leading or internationally excellent in REF 2014.

Celtic & Gaelic at Glasgow brings together the teaching and research of the ancient, medieval and modern periods in the Celtic languages of Scottish Gaelic, Irish and Welsh.

Our primary interests are in:

- Scottish Gaelic and Irish language and literature
- Medieval Celtic literatures and history.

With links to archaeology, history and modern languages and cultures, we can provide you with a unique opportunity to study a range of fascinating languages and cultures.

Gaelic has been taught at the University of Glasgow since the end of the 19th century and the Chair of Celtic was established in 1956. In addition, and reflecting the University's commitment to the language, we are the only university to have an established Chair of Gaelic.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Celtic Studies (MLitt)

**MLitt:** 12 months full-time; 24 months part-time

This programme is an interdisciplinary programme specialising in the medieval Celtic languages, literature, history and archaeology covering the whole span of the Middle Ages from the 6th to the 16th centuries.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

You will take two core courses, choose two optional courses (one per semester) and study one or more Celtic languages. You will also produce a 12,000 – 15,000 word dissertation on a specialist topic.

### Core courses

- Skills and scholarship in Celtic studies
- Themes and debates in Celtic studies.

You will also take a course in one of the medieval Celtic languages at introductory or advanced level. You may, if appropriate, take a course in Scottish Gaelic instead.

- Introduction to Early Gaelic (Old and Middle Irish)
- Introduction to Middle Welsh.

### Optional courses may include:

- Celtic art: An interdisciplinary approach
- Celtic place-names of Scotland
- Critical issues in early Gaelic literature
- Finn in Gaelic literature
- Gaelic in Scotland: the history of a language, 1400 – 1914
- Literacy in Celtic culture and society: an interdisciplinary approach
- Picts: An interdisciplinary approach
- Seinn sa Gháidhligh: Gaelic Song in Performance
- Special option (semester 1 or 2). This is a course of guided reading, directed by a specialist in a field of your choice, designed to produce a research essay of around 5,000 words.

You may alternatively, with the approval of the programme organiser, take a taught course from a related Masters programme or take another language course.

### Career prospects

Graduates have secured jobs in academia, museums and government heritage bodies; publishing and book marketing; primary and secondary teaching, and teaching English as a foreign language abroad.

The programme also provides an excellent platform for you to move on to PhD studies and an academic career.

## Celtic Studies (MRes)

MRes: 12 months full-time; 24 months part-time

This Masters in Celtic Studies is a one-year research degree with taught elements. It is an interdisciplinary programme that will allow you to pursue a personalised curriculum, drawing on modern and medieval Celtic languages (e.g. Gaelic, Old Irish, medieval Welsh), literatures, history and cultures. It is available on a full-time or part-time basis.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

This programme consists of taught options and a dissertation. You will choose EITHER 60 credits of taught courses and a 120 credit dissertation (written in English or Gaelic) OR 80 credits of taught courses and a 100 credit dissertation (written in English or Gaelic).

Taught courses are selected from the Celtic and Gaelic menu (including the MLitt core courses, language courses, and special options), or subject to approval, from the menus of cognate subject areas. The Programme Convener and your dissertation supervisors will work with you to plan your unique curriculum.

### Career prospects

Graduates could go into jobs with museums and government heritage bodies. The programme provides an excellent platform for you to move on to PhD studies and an academic career.

### Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil, MRes.

Our research areas include:

- Modern and medieval Celtic languages
- Literature and cultures, especially modern Scottish Gaelic and Irish language and linguistics
- Modern Scottish Gaelic literature, 18th – 21st centuries
- Gaelic linguistics
- Medieval Celtic legal traditions
- Medieval Celtic literatures, especially Early Irish/Gaelic and Middle Welsh
- Textual cultures of the medieval Celtic-speaking areas
- Medieval Celtic art
- Celtic place-names of Scotland.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/celticgaelic](http://glasgow.ac.uk/research/opportunities/subjects/celticgaelic)

## CENTRAL & EAST EUROPEAN STUDIES

Glasgow has a long history of research excellence related to the former socialist countries of Central and Eastern Europe.

The Department for the Study of the Social and Economic Institutions of the USSR was established at Glasgow in the late 1940's and since then we have also been the home of *Europe-Asia Studies* (formerly *Soviet Studies*), the principal academic journal in the world focusing on the history and current political, social and economic affairs of the countries of the former 'communist bloc' of the Soviet Union, Eastern Europe and Asia.

In the 2014 REF exercise we were ranked 1st in Scotland for Area Studies, with 75% of outputs and 80% of impact assessed to be internationally excellent or world-leading. Our areas of specialism include:

- Economics
- Politics
- Sociology
- History
- Slavonic studies and languages such as Czech, Polish and Russian.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Central & East European, Russian & Eurasian Studies (Erasmus Mundus International Master)

IntM: 24 months full-time

This innovative international programme offers you the unique opportunity to undertake study (in English) and research in at least three different countries at our renowned partner institutions, culminating in the award of a multiple degree according to your chosen pathway.

 [ammon.cheskin@glasgow.ac.uk](mailto:ammon.cheskin@glasgow.ac.uk)

### Programme structure

The programme is structured around three predefined mobility periods at three different universities across Europe, Russia and Eurasia.

#### Year 1

Semester 1 – University of Tartu

Semester 2 – University of Glasgow. You will select a specialist pathway.

- Central and East European Studies
- Russian Studies
- Eurasian Studies

#### Year 2

##### Semester 1

Partner institution will depend on your pathway.

##### Central and East European Studies

- Corvinus University of Budapest
- Jagellonian University, Kraków
- National University of Kyiv-Mohyla Academy (NaUKMA)

##### Russian Studies

- Lobachevsky State University of Nizhni Novgorod (UNN)

##### Eurasian Studies

- KIMEP University, Almaty
- Ilia State University, Tbilisi

#### Semester 2

You will continue on the mobility pattern started in semester 1 and complete a dissertation under the principal supervision of the pathway partner institution, with Glasgow and Tartu as co-supervisors.

### Career prospects

You will be prepared for careers in policymaking in government, foreign ministries, the EU, intergovernmental organisations and non-governmental organisations. Other career opportunities include higher education and business.

## Russian/Czech/Estonian/Hungarian/ Latvian/Polish Language

PgCert: 9 months full-time

These Graduate Certificates provide a substantial programme in Russian, Czech, Estonian, Hungarian, Latvian and Polish Language for graduates in other subjects who have no prior competence in these languages and who require a thorough knowledge of the language for their chosen field of work or programme of further study.

**✉** Russian Language:  
[shamil.khairov@glasgow.ac.uk](mailto:shamil.khairov@glasgow.ac.uk)

Czech Language:  
[jan.culik@glasgow.ac.uk](mailto:jan.culik@glasgow.ac.uk)

Estonian Language:  
[lea.kreinin@glasgow.ac.uk](mailto:lea.kreinin@glasgow.ac.uk)  
Hungarian Language:  
[zsuzsanna.varga@glasgow.ac.uk](mailto:zsuzsanna.varga@glasgow.ac.uk)  
Latvian Language:  
[dace.paulins@glasgow.ac.uk](mailto:dace.paulins@glasgow.ac.uk)  
Polish Language:  
[john.bates@glasgow.ac.uk](mailto:john.bates@glasgow.ac.uk)

### Programme structure

These Graduate Certificates are designed as preparation for employment related to Russia (or the Russian-speaking countries of the Commonwealth of Independent States)/Czech Republic/Estonia/Hungary/Latvia/Poland or based in countries where the languages are spoken; or research activities in history, sociology, politics and economy that deal with the chosen language.

If you intend to work in any of the respective countries or require one of the languages in relation to your work, you will receive appropriate provision of language in connection with your specific area-based knowledge.

## Russian, East European & Eurasian Studies (MSc)

**MSc:** 12 months full-time; 24 months part-time

This programme is an advanced study of historical and contemporary developments in the economy, politics, culture and society of Russia and the countries of Eastern Europe and Eurasia.

**✉** [ammon.cheskin@glasgow.ac.uk](mailto:ammon.cheskin@glasgow.ac.uk)

### Programme structure

You will take four core courses and one optional course, as well as complete a dissertation as a piece of independent research.

You will select a specialist pathway which includes a core course and a language (choices vary depending on your pathway).

#### Core courses

All pathways

- Issues in Russian, East European, and Eurasian studies
- Research methods for studying Russia, Eastern Europe and Eurasia.

#### Central and East European Studies

- Geopolitics of Central and Eastern Europe OR Statehood and nationality in Central and Eastern Europe
- Language options: Czech, Hungarian OR Polish.

#### Russian Studies

- Gender and identity in Soviet and Post-Soviet Russia OR Russian foreign policy
- Language: Russian.

#### Eurasian Studies

- Contested states: The South Caucasus after 1991 OR Rethinking Central Asian security
- Language options: Russian OR Chinese.

A wide selection of optional courses are available each year.

### Career prospects

Many of our graduates have gone on to establish careers as lecturers and researchers at universities in the UK and Europe or have become secondary school teachers. Other recent employers include BBC World Service, British Army, British Council, Centre for Defence Information (Moscow), European Policies Research Centre, Jamestown Foundation (Washington D.C), KPMG, Ministry of Defence, UK.

## Russian, East European & Eurasian Studies (MRes)

**MRes:** 12 months full-time; 24 months part-time

The programme offers ESRC accredited training in language-based area studies, as well as advanced training in qualitative and quantitative methods; specialised area studies research training; and language training in one of the region's languages.

**✉** [ammon.cheskin@glasgow.ac.uk](mailto:ammon.cheskin@glasgow.ac.uk)

### Programme structure

You will take four core courses and submit a 12,000 – 15,000 word dissertation.

#### Core courses

- Language (Czech, Hungarian, Polish, Russian)
- Qualitative methods for social scientists
- Quantitative data analysis
- Research design.

### Career prospects

Many of our graduates have gone on to establish careers as lecturers and researchers at universities in the UK, Norway, Greece, Italy and Poland or have become secondary school teachers. Some have also gone on to pursue research and policymaking careers with government, business and international organisations.

## Russian Language

PgCert: 9 months full-time

This is an intensive programme in Russian language for graduates in other subjects who would find a thorough knowledge of Russian an asset in their chosen field.

**✉** [shamil.khairov@glasgow.ac.uk](mailto:shamil.khairov@glasgow.ac.uk)

### Programme structure

This programme is designed as preparation for employment related to Russia or the Russian-speaking countries of the Commonwealth of Independent States (CIS); or research activities in history, sociology, politics and economy that deal with Russia and CIS-related themes. Students who intend to work in Russia or need Russian in relation to their work will receive appropriate provision of language in connection with their specific area-based knowledge.

The programme combines classroom and distance tuition in intermediate-level Russian language over two semesters. You are also ordinarily expected to undertake a designated period of study abroad at a partner institution in the Russian Federation or another country where Russian is spoken.

The programme comprises four discrete elements or blocks, imparting grammar, reading, translation and skills. You will undertake:

- classroom teaching at Glasgow
- interactive activities, exercises and tests placed on the programme Moodle site
- intensive teaching block at the partner institution abroad in semester 2.

### Career prospects

Students who have completed the programme have gone into teaching, commerce, financial services, translating, postgraduate study and other occupations.

## Russian for Social Scientists (PgDip)

PgDip: 12 months full-time

This is an intensive programme in Russian Language for graduates in other subjects who already possess basic proficiency in Russian but require a more extensive grounding in the language specifically for the purpose of conducting social scientific research dealing with Russia and/or the Commonwealth of Independent States (CIS).

 [shamil.khairov@glasgow.ac.uk](mailto:shamil.khairov@glasgow.ac.uk)

### Programme structure

The Diploma provides a substantial programme in Russian Language for graduates who already possess basic proficiency in Russian but require a more extensive grounding in the language specifically for the purposes of conducting social scientific research dealing with Russia and/or the CIS (Commonwealth of Independent States).

This programme provides you with blended (classroom and distance) intermediate-level Russian language tuition over two semesters of study. You will also benefit from a dedicated period of study abroad at a partner institution in the Russian Federation or other country where Russian is spoken as part of the Certificate course in Russian for Social Scientists.

### Core courses

- Certificate course in Russian for Social Scientists
- Analysis of Russian social science text
- Intermediate Russian language.

The content of this programme combines three layers – linguistic, cultural and socio-political – which gives the student multifaceted language skills and knowledge about the country and the people. These skills are to be developed through a variety of different learning activities and assessment tasks: classroom sessions, elements of distance learning, interactive Moodle exercises and self-study.

### Career prospects

Those who have completed the course have gone into teaching, commerce, financial services, translating, postgraduate study and other occupations.

## Russian for Social Scientists (PgCert)

PgCert: 9 months full-time

This is an intensive programme for graduates in other subjects who already possess basic proficiency in Russian but require a more thorough grounding in the language specifically for the purpose of conducting social scientific research dealing with Russia and/or the Commonwealth of Independent States.

 [shamil.khairov@glasgow.ac.uk](mailto:shamil.khairov@glasgow.ac.uk)

### Programme structure

This programme combines classroom and distance tuition in intermediate-level Russian language over two semesters. Students are also ordinarily expected to undertake a designated period of study abroad at a partner institution in the Russian Federation or another country where Russian is spoken.

You will acquire sufficient linguistic knowledge and translating skills to be able to read and retrieve information from a variety of texts in the original language, including those related to social sciences, and to deepen your existing knowledge of Russian realia.

The programme comprises four discrete elements or blocks, imparting grammar, reading, translation and oral skills.

### Career prospects

Students who have completed the programme have gone into teaching, commerce, financial services, translating, postgraduate study and other occupations.

## Research opportunities

We offer PhDs in the following research areas:

- Accessing accession: Central and Eastern Europe in the EU
- Baltic research
- History, legacy and social transformation
- Identity culture and welfare.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/cees](http://glasgow.ac.uk/research/opportunities/subjects/cees)

‘Developing independent research skills and approaches to the socio-economic, political and security challenges within the Post-Communist as well as the global context in a more critical manner were key skills I gained from the programme. The innovative facilities and numerous resources the University of Glasgow provides for its students, along with keenly motivated academic staff, enabled me to enhance both my personal and academic skills.’

Firdavs, Tajikistan

Central & East European, Russian & Eurasian Studies (IntM) graduate

# CHEMISTRY

Glasgow has fostered the talents of four Nobel Prize winners in the study of chemistry.

Chemistry at Glasgow combines superb facilities with world-leading research groups covering all aspects of chemistry as well as the interfaces with biology, materials science and physics. Our outstanding research has led to the University of Glasgow being ranked 4th in the UK for Chemistry in the 2014 REF.

The School of Chemistry is also a member of ScotCHEM, which brings together seven universities in Scotland. ScotCHEM is committed to excellence and to providing the highest-quality postgraduate education and researcher experience.

All of our Masters programmes in the School of Chemistry are accredited by the Royal Society of Chemistry. Our research spans a wide range of areas including:

- Chemical biology and medicinal chemistry
- Complex chemistry
- Dynamics and structure
- Heterogeneous catalysis
- Nanoscience and materials chemistry.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Chemistry

**MSc:** 12 months full-time

The Masters in Chemistry will extend your depth and breadth of knowledge in all branches of chemistry, suitable for a professional chemist capable of conducting research.

 [pgt-enquiries@chem.gla.ac.uk](mailto:pgt-enquiries@chem.gla.ac.uk)

### Programme structure

From September to March, you will attend lectures and tutorials. You will undertake a 12-week research project from June to August, which will provide practical application and consolidation of earlier work and enhance your ability to do independent work and present results effectively.

#### Core courses

- Chemistry problems
- Frontiers of chemistry
- Inorganic, organic and physical chemistry
- Special topics from inorganic, organic and physical chemistry.

#### Career prospects

Career opportunities include the chemical or pharmaceutical industry, from bench work and instrumentation to regulatory affairs, health and safety, and intellectual property/patents. Research-related jobs usually require a PhD, for which this programme provides an ideal preparation.

Graduates of this programme have gone on to become teachers at a UK secondary school.

## Chemistry with Medicinal Chemistry

**MSc:** 12 months full-time

The Masters in Chemistry with Medicinal Chemistry will extend your depth and breadth of knowledge in all branches of chemistry, but with some specialisation in medicinal chemistry, suitable for a professional medicinal chemist capable of conducting research.

 [pgt-enquiries@chem.gla.ac.uk](mailto:pgt-enquiries@chem.gla.ac.uk)

### Programme structure

From September to March, you will attend lectures and tutorials. You will undertake a 12-week research project from June to August, which will provide practical application and consolidation of earlier work and enhance your ability to do independent work and present results effectively.

#### Core courses

- Chemistry problems
- Frontiers of chemistry
- Inorganic, organic and physical chemistry
- Medicinal chemistry
- Special topics from inorganic, organic and physical chemistry.

#### Career prospects

Career opportunities in the chemical or pharmaceutical industry, from bench work and instrumentation to regulatory affairs, health and safety, and intellectual property/patents. Research-related jobs usually require a PhD, for which this programme provides an ideal preparation.

Graduates of this programme have gone on to positions such as Researcher at Piramal Healthcare UK Ltd and university researchers and lecturers.

## Research opportunities

We offer the following research study options:  
PhD, MRes.

Our research areas include:

- Chemical biology and medicinal chemistry
- Complex chemistry
- Dynamics and structure
- Heterogeneous catalysis
- Nanoscience and materials chemistry.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/chemistry](http://glasgow.ac.uk/research/opportunities/subjects/chemistry)

# CLASSICS

Classics has been central to the University of Glasgow since its foundation in 1451 and has a vibrant present.

There are a number of attractions to studying for a postgraduate degree in Classics at Glasgow, from the very well-stocked University Library, to the Hunterian Museum (with its notable fine coin collection), to a major centre in humanities computing. Areas of study include art, history, language, literature, material culture, philosophy and society. Today, our considerable expertise spans:

- Greek and Roman art and archaeology
- Greek and Roman drama and epic
- Late Latin literature
- Greek and Roman history
- Greek prose narratives.

The diversity of our approach means that if you choose to study with us, you will develop a broad range of intellectual and transferable skills.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

[glasgow.ac.uk/  
subjects/classics/postgraduate/](http://glasgow.ac.uk/subjects/classics/postgraduate/)

## Ancient Cultures

**MLitt:** 12 months full-time;  
24 months part-time



This programme offers you the opportunity to explore the ancient world from a multicultural and interdisciplinary perspective from the Near-East to North-Western Europe. It is based in Classics, with the participation of Archaeology, Egyptology, Celtic & Gaelic, and Theology & Religious Studies.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

The ancient world was both multicultural and highly interconnected, with trade routes running from the Middle East through Greece and Italy to Celtic Britain, with peoples of diverse cultures, faiths and ethnicities living together in bustling cities such as Athens, Rome and Alexandria.

#### Core courses

- Approaching the Ancient World through text
- Approaching the Ancient World through material culture.

Both core courses include handling sessions with ancient objects, taking advantage of the unique resources of the University of Glasgow in the shape of the University Library, the Hunterian Museum, and the Glasgow Museums Resource Centre.

#### Optional courses may include:

- Languages at all levels: Ancient Greek, Latin, Early Gaelic, Welsh, Hebrew, Ancient Egyptian (hieroglyphs), Coptic
- Democracy and government in the ancient world
- Explorations in the classical tradition
- Rituals, feasts and festivals: power, community and consumption in the East Mediterranean and the Near East
- Mediterranean landscapes
- Climate and civilisation
- Celtic art
- Jewish contexts of early Christianity
- Early church history and theology
- Ancient Egyptian art and archaeology.

You must take courses from at least two subject areas.

Please note that you can only study one language at beginner's level.

You will also complete a dissertation of 12,000 – 15,000 words on a research topic of your choice.

### Career prospects

The programme provides excellent technical and linguistic skills for further postgraduate study in any of the subjects involved. It is also well suited to those considering a career in heritage, teaching, archives or libraries.

## Classics

**MLitt:** 12 months full-time; 24 months part-time

This Masters programme enables you to acquire and develop skills as an independent researcher in the field of classics. We offer a broad range of options which can either be used to construct a self-contained programme of study or act as the springboard for doctoral research.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

#### Core courses

- Research training.

#### Optional courses may include:

Options are available via both linguistic and non-linguistic pathways.

- Thucydides
- Explorations of the classical tradition
- Ancient drama
- Democracy and governance.

You can also take courses in elementary and advanced Greek and Latin languages.

It is also possible to take Masters-level courses offered by other subject areas in the College of Arts.

### Career prospects

You will develop a broad range of intellectual and transferable skills that employers are looking for. Graduates have found careers in teaching, librarianship and the heritage sector. Over half of our Masters students proceed to PhD. Glasgow PhD graduates currently hold university posts in the UK, rest of Europe, US and Africa. Positions held by recent graduates include University Teacher, Business Archive Cataloguer, Policy and Governance Manager, Market Research Coordinator and Underwriter.

## Research opportunities

We offer the following research study options:  
PhD, MLitt, MPhil, MRes.

Our research areas include:

- Greek and Roman drama
- Greek and Roman historical and fictional narrative
- Greek and Roman politics
- Receptions of classical antiquity
- Ancient technology.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/classics](http://glasgow.ac.uk/research/opportunities/subjects/classics)

# COMPUTING SCIENCE

Glasgow is ranked in the top 10 universities in the UK for Computing Science (Complete University Guide 2017).

Since 1957, when Glasgow became the first university in Scotland to have an electronic computer, we have built a reputation for the excellence of our Computing Science research and our graduates. Today, our School of Computing Science is one of the foremost in the UK, setting itself the highest standards in research, and research-led learning and teaching.

Our research degrees enjoy worldwide prestige and we offer postgraduate programmes of outstanding quality. Postgraduate students benefit from the best possible support and supervision and, on graduating, they are well qualified to take up key posts in industry and academia.

Glasgow's prestige in the area of Computing Science has also gained worldwide recognition, ranking in the top 100 universities in the world (QS World University Rankings by Subject 2016).

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Computing Science

**MSc:** 12 months full-time; 24 months part-time

The Masters in Computing Science provides you with a thorough grounding in professional software development, together with experience of conducting a development project, preparing you for responsible positions in the IT industry.

[ron.poet@glasgow.ac.uk](mailto:ron.poet@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Computing Science include lectures, seminars and tutorials, and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Research methods and techniques
- Masters team project.

#### Optional courses may include:

- Advanced networking and communications
- Advanced operating systems
- Algorithms
- Artificial intelligence
- Big data: systems programming and management
- Computer architecture
- Computer vision methods and applications
- Cyber security forensics
- Cyber security fundamentals
- Distributed algorithms and systems
- Enterprise cyber security
- Functional programming
- Human-computer interaction
- Human-computer interaction: design and evaluation
- Human-centred security
- Information retrieval
- Internet technology
- IT architecture
- Machine learning
- Mobile human-computer interaction
- Modelling reactive systems
- Safety critical systems.

Depending on staff availability, the optional courses listed here may change.

#### Career prospects

Graduates of this programme have gone on to positions such as: Software Engineering at Kana Software and IT Trainee at Allianz Deutschland. You will also be well qualified to proceed to study for a PhD in computing science.

## Data Science

**MSc:** 12 months full-time; 24 months part-time

The Masters in Data Science provides you with a thorough grounding in the analysis and use of large data sets, together with experience of conducting a development project, preparing you for responsible positions in the Big Data and IT industries. As well as completing a range of taught courses, you will also undertake a significant programming team project.

[ron.poet@glasgow.ac.uk](mailto:ron.poet@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Data Science include lectures, seminars and tutorials, and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Big data
- Data fundamentals
- Information retrieval
- Machine learning
- Research methods and techniques
- Masters team project.

#### Optional courses may include:

- Advanced operating systems
- Artificial intelligence
- Computer architecture
- Computer vision methods and applications
- Cyber security forensics
- Cyber security fundamentals
- Enterprise cyber security
- Functional programming
- Human-computer interaction
- Human-computer interaction: design and evaluation
- Human-centred security
- Information retrieval
- Mobile human-computer interaction
- Modelling reactive systems
- Safety critical systems.

Depending on staff availability, the optional courses listed here may change.

#### Career prospects

You will be well qualified for responsible software development positions, not only in the IT sector but also in many other sectors such as education, engineering, health services, financial services, government, manufacturing, retail and transport. Expertise in information security is particularly prized by employers. You will also be well qualified to proceed to a PhD in computing science.

## Information Security

**MSc:** 12 months full-time; 24 months part-time

The Masters in Information Security provides you with a thorough grounding in professional software development, together with experience of conducting a development project, preparing you for responsible positions in the IT industry.

[ron.poet@glasgow.ac.uk](mailto:ron.poet@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Information Security include lectures, seminars and tutorials, and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Cyber security fundamentals
- Human-centred security
- Research methods and techniques
- Safety critical systems
- Masters team project.

#### Optional courses may include:

- Advanced networking and communications
- Advanced operating systems
- Artificial intelligence
- Big data: systems programming and management
- Computer architecture
- Computer vision methods and applications
- Distributed algorithms and systems
- Functional programming
- Human-computer interaction
- Information retrieval
- Internet technology
- IT architecture
- Mobile human-computer interaction
- Modelling reactive systems.

Depending on staff availability, the optional courses listed here may change.

#### Career prospects

You will be well qualified for responsible software development positions, not only in the IT sector but also in many other sectors such as education, engineering, health services, financial services, government, manufacturing, retail and transport. Expertise in Data Science and Big Data is particularly prized by employers. You will also be well qualified to proceed to a PhD in computing science.

Graduates of this programme have gone on to positions such as: Web Developer at Bazookas Studios.

## Information Technology

**MSc:** 12 months full-time; 24 months part-time

The Masters in Information Technology is an intensive, practically oriented taught postgraduate programme which will equip you with advanced IT skills. You will apply your knowledge and skills by conducting a development project.

 [ron.poet@glasgow.ac.uk](mailto:ron.poet@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Information Technology include lectures, seminars and tutorials, and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Database theory and applications
- Programming
- Software engineering
- Software project management
- Systems and networks
- Group project.

Plus one of the following specialist courses:

- Enterprise computing
- Human-centred security.

#### Optional courses may include:

- Advanced programming
- Algorithms and data structures
- Cyber security fundamentals
- Digitisation
- Human-computer interaction: design and evaluation
- Internet technology
- Safety critical systems.

Depending on staff availability, the optional courses listed here may change.

### Career prospects

Former students are now employed in the chemical, electronics, travel, food and oil industries, in banking and insurance, software houses, retailing, education, health service, management consultancy, civil engineering, and in other sectors.

Graduates of this programme have gone on to positions such as Programmer at Ciber, IT Software Developer at Lockheed Martin (Amor Group Ltd), Web Developer at Emerald Design, Web and Mobile Developer at SwarmOnline Ltd, Technical Consultant at Kana Verint, Project Manager at Equator, IT Consultant at Agile Solutions and Developer at JP Morgan.

## IT Cyber Security

**MSc:** 12 months full-time; 24 months part-time

The Masters in IT Cyber Security is an intensive, practically oriented taught programme that equips you with advanced IT and Cyber Security skills. This is a conversion degree programme intended for those without a computing science background. You will apply your knowledge and skills by conducting a development project.

 [socs-pgt-director@dcs.gla.ac.uk](mailto:socs-pgt-director@dcs.gla.ac.uk)

### Programme structure

Modes of delivery of the MSc IT Cyber Security includes lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and teamwork.

#### Core courses

- Cryptography and secure development
- Cyber security forensics
- Cyber security fundamentals
- Database theory and applications
- Enterprise cyber security
- Human-centred security
- Programming
- Safety critical systems
- Software project management
- Systems and networks
- Group project.

### Career prospects

Former students on related programmes are now employed in chemical, electronics, travel, food and oil industries, banking and insurance, software houses, retailing, education, the health service, management consultancy, civil engineering, and other sectors.

## Software Development

**MSc:** 12 months full-time; 24 months part-time

The Masters in Software Development will give you an intensive grounding in computer programming, professional software development, and related skills. You will apply your knowledge and skills by undertaking a demanding software development project.

 [ron.poet@glasgow.ac.uk](mailto:ron.poet@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Software Development include lectures, seminars and tutorials, and allow students the opportunity to take part in lab, project and team work.

#### Core courses

- Advanced programming
- Algorithms and data structures
- Database theory and applications
- Programming
- Software engineering
- Software project management
- Systems and networks
- Group project.

Plus one of the following specialist courses:

- Enterprise computing
- Human-centred security.

#### Optional courses may include:

- Cyber security fundamentals
- Digitisation
- Human-computer interaction: design and evaluation
- Internet technology
- Safety critical systems.

Depending on staff availability, the optional courses listed here may change.

### Career prospects

Former students are now employed in the chemical, electronics, travel, food, and oil industries, in banking and insurance, in software houses, in retailing, in education, in the health service, in management consultancy, in civil engineering, and in other sectors. Some graduates apply their newly-acquired software development skills within their existing careers, or move into research or teaching. Graduates of this programme have gone on to positions such as Software Developer at Lockheed Martin and Project Manager at Equator IT.

## Research opportunities

We offer the following research study options:

PhD, MRes.

Our research areas include:

- Computing science education
- Computer vision and graphics
- Embedded, networked and distributed systems
- Formal analysis, theory and algorithms
- Human-computer interaction (GIST)
- Inference, dynamics and interaction
- Information retrieval
- Software engineering and safety.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/computing](http://glasgow.ac.uk/research/opportunities/subjects/computing)

# CREATIVE WRITING

Glasgow's creative writing programmes are among the most prestigious in the UK, launching the careers of many successful writers.

Glasgow has produced many notable writers, from Robert Henryson in the 15th century, to James Boswell, Tobias Smollett and Adam Smith in the 18th. It was in the 20th century that Glasgow's place as a centre of creativity was confirmed with prominent writer graduates such as William Boyd, John Buchan, Catherine Carswell, Janice Galloway, James Herriot, James Kelman, Alistair MacLean, William McIlvanney, Edwin Morgan and Alexander Trocchi.

Our Creative Writing programme is the longest-established in Scotland, and has gained an excellent reputation among writers, agents and publishers. It is perfect for talented and aspiring writers who want to develop their craft, take risks in their work, and gain creative and critical skills; all as part of a supportive community of fellow writers. We have a wealth of experience and enthusiasm to help you develop vital skills in critical, analytical and creative thinking.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Creative Writing

**MLitt:** 12 months full-time; 24 months part-time

Our celebrated creative writing programme is perfect for talented and aspiring writers looking to gain adventurous and needed creative and critical skills.

 [arts-critstudies-creativewriting@glasgow.ac.uk](mailto:arts-critstudies-creativewriting@glasgow.ac.uk)

### Programme structure

This programme is designed for ambitious, dedicated individuals who are already engaged in writing. Taught entirely by published, award-winning writers, the MLitt focuses on supporting you as you develop your writing styles, critically assess your work, and develop skills for professional practice. Its clear three-part structure, focused on creative, critical and practical issues, distinguishes it from others offered in the UK.

The programme structure covers:

#### Semester 1

- Creative workshops and guest speakers
- Reading as a writer (CX1)
- Copyright, publishing and the culture of reception.

#### Semester 2

- Creative workshops and guest speakers
- Experimentation (CX2)
- Editorial project.

These aims of the programme are:

- to allow you to experiment with a range of voices, techniques and genres alongside a consideration of major creative and editorial engagements from the modern through the contemporary period
- to develop a critical understanding of diverse creative, theoretic and critical texts
- to provide a space to undertake extended portfolios of creative and editorial work
- to familiarise you with the writing context (audience, publishing in all its forms, the legal framework, modes of transmission)
- and most importantly, to subject you to the discipline of regular writing by providing a stimulating workshop and tutorial environment in which writing skills can be acquired, discussed and honed.

### Career prospects

Graduates have gone into writing, journalism, publishing and many other professions.

Positions held by recent graduates include Managing Director, Freelance Editor, Author, Copywriter, Community Arts Development Worker, Lecturer.

## Creative Writing (online)

**MLitt Online Distance Learning:** 12 months full-time; 24 months part-time

Our celebrated creative writing programme is perfect for talented and aspiring writers looking to develop exceptional creative and critical skills. This exciting, no-residency online programme supports you as you develop your writing practice wherever you are in the world.

 [arts-critstudies-creativewriting@glasgow.ac.uk](mailto:arts-critstudies-creativewriting@glasgow.ac.uk)

### Programme structure

This programme is designed for ambitious, dedicated individuals who are already engaged in writing. Taught entirely by published, award-winning writers, the MLitt focuses on supporting you as you develop your writing styles, critically assess your work, and develop skills for professional practice. The clear three-part structure – focused on creative, critical and practical issues – and the wide range of genres encountered, enabling you to define your core interests and approaches, distinguishes it from others offered in the UK.

The programme structure covers:

#### Semester 1

- Creative workshops and guest speakers
- Reading as a writer (CX1)
- Copyright, publishing and the culture of reception.

#### Semester 2

- Creative workshops and guest speakers
- Craft and experimentation (CX2)
- Editing the 21st century: editorial project.

### Delivery mode

Classes are taught via video conferencing and an online virtual learning platform called Moodle, where you can participate in forums, download class notes, watch related video, and submit written work for feedback. Workshops and seminars are at set times during the semester; however, these are recorded so you can watch in your own time if you can't make the class.

- You are also always welcome to take part in our campus-based classes and events, if you are able.
- You will also have one-on-one tutorials at a time agreed between you and your tutor throughout the semester for extra support with your work.

### Career prospects

Graduates have gone into writing, journalism, publishing and many other professions. Positions held by recent graduates include Managing Director, Freelance Editor, Author, Copywriter, Community Arts Development Worker and Lecturer.

## Research opportunities

We offer the following research study options:  
DFA, MFA.

Our new research Masters of Fine Art (MFA) and Doctorate of Fine Art (DFA) build on a long history of offering Masters and Doctoral options in the study and practice of Creative Writing.

Our research degrees incorporate hybrid taught elements (literary and practical seminars; workshops; and practical pedagogy) within a supervised research context that best supports your creative and critical work.

Both programmes give you dedicated, supported time to complete a substantial creative work and include opportunities to teach writing to undergraduates and to apply to be a graduate teaching assistant for other literature courses, and the DFA additionally allows you to undertake an extended academic research project, informed by your work and practice, leading to a significant critical essay or output.

From 2016/17 both the MFA and DFA will run as Low Residency options. This option will require you to attend at least two intense weeks of seminars, visiting speakers, workshop and practical elements (including teaching creative writing in the second year). One week will take place during the first week of the autumn semester in your first year; the other will take place in the spring or early in the summer semester of your second year.

Our research areas include:

- Experimental poetry and poetics
- Conceptual writing
- Language writing
- Creative writing pedagogy.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/creativewriting](http://glasgow.ac.uk/research/opportunities/subjects/creativewriting)

# ECONOMIC & SOCIAL HISTORY

Glasgow hosts the largest group of economic and social historians in Scotland.

Economic & Social History has been taught at the University of Glasgow since the beginning of the 20th century, with R H Tawney thought to be the first appointment in the field. We are internationally recognised for research excellence in modern economic and social history, with exceptional strength in business and financial history, the history of medicine and social and gender history.

Our teaching is consistently ranked by students as among the best in the University. Study with us, and you can benefit from flexible degree programmes, small class sizes, an excellent range of library and archival resources and a supportive environment for learning.

 **For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)**

## Global Economy

**MSc:** 12 months full-time; 24 months part-time

The global economy is a complex and challenging place. This programme, taught by internationally acknowledged experts in their fields, unravels many of the complexities and explores the challenges. It is ideal for those who do not have a degree or background in economics or business but wish to explore the field.

 [duncan.ross@glasgow.ac.uk](mailto:duncan.ross@glasgow.ac.uk)

### Programme structure

You will take three core and three optional courses and undertake a dissertation during the final phase of the programme. You will attend lectures, seminars and tutorials and take part in project and team work. You will benefit from our programme of guest seminars.

#### Core courses

- The globalised economy
- Business in the global economy
- Social science statistics.

#### Sample optional courses

There is a wide range of options available within the School of Social & Political Sciences.

- Globalisation of banking and financial institutions
- Globalisation and labour
- Technology transfer in a globalised world
- International economic relations since 1945
- The EU in international politics and development.

#### Career prospects

Career opportunities include positions in global economics, foreign trade, international NGOs and policy environments.

## Global Markets, Local Creativities (Erasmus Mundus International Master)

**IntM:** 24 months full-time

This two-year International Master leverages the complementary expertise, resources and networks of four subject areas (Economic & Social History, Business, History, Economics) within four major European universities to provide a profoundly interdisciplinary programme and international learning experience. The programme equips you with the analytical tools and critical skills necessary to make sense of the history, theory, institutions and cultures of global and local capitalism. Exploration and understanding of the intersecting complementarity of global and local is at the heart of this programme.

 [socpol-glocal@glasgow.ac.uk](mailto:socpol-glocal@glasgow.ac.uk)

### Programme structure

This is a two-year degree taught through a mix of lectures and seminars. The programme also includes internships and industrial placements.

You will spend your first year in Glasgow (semester 1) and Barcelona (semester 2). The second year (semester 1) will be spent in either Rotterdam or Göttingen, depending on which pathway you choose.

- Pathway 1 (Rotterdam): Global history and creative cities' economies (the history of globalisation and the role of creative industries).
- Pathway 2 (Göttingen): Global markets and development (marketing, entrepreneurship and development).

The final semester will be spent researching and writing a dissertation.

#### Summer school

A two-week summer school will take place in July at the end of year 1, it will be held with a different partner each year and this will include associate partners from around the world.

#### Career prospects

The intertwining of academic analysis and practical engagement will provide a valuable range of well-rounded skills and experiences that develop active and informed graduates capable of operating at strategic levels in NGO and third-sector agencies, local economic development organisations, policy analysis and lobbying groups and corporations, or of undertaking further study.

## History (with an emphasis on the History of Medicine)

**MLitt/MSc:** 12 months full-time; 24 months part-time

This programme provides you with thorough research training, an outstanding learning experience, and a wide set of transferable skills in the conception, design and execution of a research project.

 [malcolm.nicolson@glasgow.ac.uk](mailto:malcolm.nicolson@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses and submit a dissertation on a topic related to the history of medicine.

#### Core courses

- Approaches to history
- History of medicine 1: studies in the history of medicine before 1850
- History of medicine 2: studies in the history of medicine from 1850 to 2000
- Research resources and skills for historians.

#### Optional courses

MSc students will choose two courses from the following:

- Introduction to social theory for researchers
- Qualitative methods
- Quantitative methods.

MLitt students can also choose from a wide selection of courses from subject areas within the College of Arts and College of Social Sciences.

#### Career prospects

Apart from continuing to study for a PhD, you can transfer the arts research skills and methods you learn on this programme to positions in the modern public and private sectors, such as heritage, policy and projects, journalism and teaching.

## Research opportunities

We offer PhDs in the following research areas:

- Modern economic and social history
- Business and financial history
- History of medicine
- Social and gender history.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/economicsocialhistory](http://glasgow.ac.uk/research/opportunities/subjects/economicsocialhistory)

‘I wanted to choose a programme of study that would challenge me, improve my career options and provide a high level of teaching and research. In an increasingly interlinked, globalised world, it is crucial to be able to understand the historical, theoretical and social aspects of this development and an MSc in Global Economy provides this.’

Michael, UK  
Global Economy (MSc) graduate

## ECONOMICS

Economics has a distinguished history at Glasgow dating back to Adam Smith, the father of modern economics.

Today we have international expertise in:

- Macroeconomics
- Financial economics
- Development economics
- International finance
- Econometrics
- Microeconomics.

Staff research directly informs our teaching, which means that if you study with us, you can benefit from up-to-date degree programmes that touch on the key theoretical and policy issues of the day.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Asset Pricing & Investment

**MSc:** 12 months full-time

This programme is designed to help you understand how prices and values for claims to uncertain payments are derived, by using fundamental principles from economics and finance, and includes claims such as company shares and dividends, financial derivatives, real assets such as metals and commodities, and insurance claims.

 [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take four core courses and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

You will be taught in lectures, some of which may also be accompanied by class/group discussions. You will attend workshops to help define and develop your dissertation proposal and you will be assigned an individual dissertation supervisor who will provide guidance and comments as you complete your dissertation.

### Core courses

- Economic fundamentals and financial markets
- Empirical asset pricing
- Investment, finance and asset pricing
- Portfolio analysis and investment.

### Optional courses may include:

- Advanced portfolio analysis (Portfolio analysis and investment is a co-requisite for this course)
- Applied computational finance
- Basic econometrics
- Corporate finance and investment
- Financial derivatives (Mathematical finance is a co-requisite for this course)
- Financial market micro structure
- Intermediate econometrics
- Mathematical finance.

### Career prospects

Graduates from this programme will typically find employment in financial institutions (asset management, investment banks, the quant sector and consulting); governmental bodies involved in financial decision-making; and organisations such as the International Monetary Fund, Central Banks etc.

## Banking & Financial Services

**MSc:** 12 months full-time

This programme will provide you with an understanding of management and regulation of financial markets, various models of pricing financial assets such as stocks, bonds and elective contracts and the underlying assumptions of such models.

**e** [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Corporate finance and investment
- Financial services
- International finance and money
- Modern theory of banking and finance.

#### Optional courses may include:

- Advanced portfolio analysis (Portfolio analysis and investment is a co-requisite for this course)
- Basic econometrics
- Financial analysis and equity valuation
- Financial institutions and markets in developing countries
- International banking and financial markets
- International capital markets
- International financial management
- International trade
- Monetary policy and the role of central banks
- Portfolio analysis and investment
- The law and economics of sovereign debt regulation.

#### Career prospects

You will be well equipped to find employment with financial institutions including banks, the International Monetary Fund, the World Bank and government bodies involved in financial decision-making, as well as firms involved with financial transactions and provision. Recent graduates have been employed by companies such as PwC, Volkswagen and the Decathlon Group.

## Development Studies

**MSc:** 12 months full-time

This programme provides non-economics graduates with a solid grounding in policy analysis, economic growth and economic development. You will develop a thorough understanding of the main models related to economic growth and development and of the economics of transition from less developed to developed status.

**e** [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take two core and four optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Development policy
- Growth and development.

#### Optional courses may include:

- Aid and development
- Economics of inequality and deprivation
- Financial institutions and markets in developing countries
- Human rights and global politics
- International security and global politics
- International trade
- Project planning, appraisal and implementation.

#### Career prospects

As a graduate you can progress to a successful career in international organisations, government ministries, academia, research institutions, banks and other financial institutions. Recent graduates of the programme have gone on to careers such as Education and Research Officer, Humanitarian Agency worker, and a consultant for youth employment and rural livelihoods.

## Economic Development

**MSc:** 12 months full-time

This programme is designed for graduates with a background in economics who want to develop an understanding of policy analysis, design and management relevant to developing countries.

**e** [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take two core courses, four optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Development policy
- Growth and development.

#### Optional courses may include:

- Aid and development
- Basic econometrics
- Behavioural economics: theory and applications
- Economics of inequality and deprivation
- Environmental economics
- Foreign direct investment and development
- International trade
- Money, finance and growth
- Policies for sustainability and development
- Project planning, appraisal and implementation
- Theory and principles of sustainability.

#### Career prospects

Career options open to you include working for international organisations, government ministries, academia and research institutions, non-governmental organisations, banks and other financial institutions. Companies which have employed recent graduates include Comic Relief, the World Bank, KPMG, and Panasonic.

## Economics

**MRes:** 24 months full-time

This programme provides rigorous training in modern economics and equips you with a comprehensive understanding of the research tools and techniques, both theoretical and empirical, required for the analysis of economics phenomena. It aims to produce graduates who are well-equipped to pursue careers in academia, government, industry or consulting.

**e** [economics-mres@glasgow.ac.uk](mailto:economics-mres@glasgow.ac.uk)

### Programme structure

In year 1 you will take six core courses and write a research project over the summer. In year 2 you will take six optional courses and complete a dissertation. If you complete the MRes at a sufficiently high level, you are automatically admitted into our three-year PhD programme. You will attend lectures, tutorials and seminars, and work on research projects.

#### Core courses

- Econometrics
- Macroeconomics 1
- Macroeconomics 2
- Microeconomics 1
- Microeconomics 2
- Quantitative methods.

#### Optional courses may include:

- Behavioural economics
- Contract theory
- Decision theory
- Economic growth: Theory and numerical solution methods
- International macroeconomics
- Market microstructure
- Methods of economic dynamics
- Microfoundations of macroeconomics
- Networks and games
- Time series analysis
- Welfare and mechanism design.

#### Career prospects

The programme provides thorough guided preparation for PhD research; completion at a sufficiently high level guarantees admission into the Glasgow Economics PhD programme. You will also be extremely well-positioned to be accepted for PhD study in other universities. Upon completion of the programme you will be equipped to pursue careers in academia, government, industry or consulting.

## Economics, Banking & Finance

**MSc:** 12 months full-time

This programme focuses on economic analysis of financial and banking issues. It is aimed at policymakers, postgraduate students who are interested in financial markets and those who work in financial institutions and government organisations.

**✉ business-economics@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work.

#### Core courses

- International macroeconomics and policy
- Modern theory of banking and finance
- Monetary policy and the role of central banks
- Money, finance and growth.

#### Optional courses may include:

- Basic econometrics
- Behavioural economics: theory and applications
- Financial institutions and markets in developing countries
- Financial services
- Foreign direct investment and development
- IMF, World Bank and economic growth
- Intermediate econometrics for applications in financial and development studies
- International finance and money
- International trade
- Modelling and forecasting financial markets
- Project planning, appraisal and implementation
- The law and economics of sovereign debt regulation.

#### Career prospects

This programme will offer suitable career choices if you wish to enter or are already in a profession which requires employees to be able to provide economic analysis of financial and banking issues. Recent graduates have embarked on roles in academia, the banking industry, and global business.

## Environment & Sustainable Development

**MSc:** 12 months full-time

This multi-disciplinary programme is designed for those intending to pursue careers in environmental project management, and will give you the tools to apply economic analysis to a range of environmental management problems with a focus on developing countries.

**✉ business-economics@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation. A pre-sessional refresher course in economics is also available for those who wish to revise their economics. This non-credit-bearing course takes place during induction week.

#### Core courses

- Development policy
- Environmental economics
- Policies for sustainability and development
- Theory and principles of sustainability.

#### Optional courses may include:

- Aid and development
- Behavioural economics: theory and applications
- International trade
- Money, finance and growth
- The economics of inequality and deprivation
- The law and economics of sovereign debt regulation.

#### Career prospects

The programme is designed to equip you for a career as professional planning staff in private or public sector organisations concerned with the design and implementation of environmental policies, working on environmental issues in international agencies or academic and research institutions, or managing environmental projects. Recent graduates have embarked on roles such as technology analysts, development practitioners, environmental policy analysts and company directors.

## Finance & Economic Development

**MSc:** 12 months full-time

This programme is designed for economics graduates who would like to develop an understanding of the nature of the differing institutional settings of financial systems in various developed and developing countries.

**✉ business-economics@glasgow.ac.uk**

### Programme structure

You will take three core and three optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Growth and development
- Money, finance and growth
- Financial institutions and markets in developing countries.

#### Optional courses may include:

- Aid and development
- Development policy
- Economics of inequality and deprivation
- Foreign direct investment and development
- International finance and money
- International trade
- The EU in international politics and development (politics).

#### Career prospects

You will be well equipped for roles in economic development as a government official, or in international agencies or in other organisations concerned with economic development. Graduates of this programme have been employed by companies such as Ernst & Young, Australian Department of Foreign Affairs and Trade, and National Bank of Belgium.

## Financial Economics

**MSc:** 12 months full-time

This programme will offer you the newest training in the key macroeconomic and microeconomic issues fundamental to financial decision-making.

**✉ business-economics@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work.

Teaching is delivered via lectures. Technical subjects are supported by weekly or fortnightly tutorials, which provide opportunities for you to engage with issues and questions in a group format. Some courses also involve lab sessions in which you will use specialised software, for instance in the study of econometrics.

#### Core courses

- Basic econometrics
- Economic fundamentals and financial markets
- Macroeconomics
- Microeconomics.

#### Optional courses may include:

- Applied computational finance
- Behavioural economics: theory and applications
- C++ in finance (Mathematical finance is a co-requisite for this course)
- Corporate finance and theory
- Empirical asset pricing
- Financial market micro structure
- Foreign direct investment and development
- Game theory with applications in economics and finance
- Intermediate econometrics
- International financial management
- Investment, finance and asset prices
- Mathematical finance
- Modelling and forecasting financial markets
- Public finance.

#### Career prospects

As a graduate of the programme you will be qualified to work in finance for organisations like the International Monetary Fund and World Bank. The programme is also suitable for careers in academia. Recent graduates of this programme have been employed by companies including KPMG, Emirates Airline, Bank of East Asia, and the university sector.

## Financial Forecasting & Investment

**MSc:** 12 months full-time

This programme offers training in the key areas of financial analysis, forecasting and financial investment. It will provide you with an understanding of the underlying forces driving financial markets and the relevant analytical tools.

**E** [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

Teaching is provided by lectures. Technical subjects are supported by weekly or fortnightly tutorials, which provide opportunities for you to engage with issues and questions in a group format. Some courses also involve lab sessions using specialised software.

#### Core courses

- Basic econometrics
- Financial markets, securities and derivatives
- Modelling and forecasting financial markets
- Portfolio analysis and investment.

#### Optional courses may include:

- Advanced portfolio analysis
- Applied computational finance
- Behavioural economics: theory and applications
- C++ in finance
- Corporate finance and investment
- Economic fundamentals and financial markets
- Empirical asset pricing
- Financial derivatives
- Financial market micro structure
- Foreign direct investment and development
- Game theory with applications in economics and finance
- Hedge fund risk management
- International finance and money
- Investment, finance and asset prices
- Mathematical finance.

#### Career prospects

Career paths will be in financial institutions including central banks and investment banks, as well as the International Monetary Fund and the World Bank, asset management firms, governmental bodies and banks. Graduates of this programme have taken up roles such as senior consultants, PhD researchers, finance managers, and risk management officers.

## Financial Risk Management

**MSc:** 12 months full-time

This programme will provide insight into the economic and financial determinants of financial risk, including market risk and some elements of liquidity and counterpart risk. You will learn how to take advantage of the opportunities inherent in financial risk.

**E** [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

Teaching is based on lectures which also allow opportunities for class discussion. Technical subjects are supported by weekly or fortnightly small tutorials, which provide opportunities for you to engage with some issues or questions in a group format. Some courses also involve lab sessions using specialised software.

#### Core courses

- Basic econometrics
- Economic fundamentals and financial markets
- Financial markets, securities and derivatives
- Financial risk analysis.

#### Optional courses may include:

- Applied computational finance
- C++ in finance
- Corporate finance and investment
- Corporate finance theory
- Empirical asset pricing
- Financial derivatives
- Financial market micro structure
- Financial services
- Game theory with applications in economics and finance
- Hedge fund risk management
- International finance and money
- Mathematical finance
- Modelling and forecasting financial markets.

#### Career prospects

As a graduate you will be qualified to work in organisations such as central banks, investment banks, the IMF and the World Bank, asset management firms and government bodies. Graduates of this programme have found employment with companies such as the Royal Bank of Scotland, Deloitte, Prudential and Santander.

## International Banking & Finance

**MSc:** 12 months full-time

This programme will offer you an in-depth study of financial systems in theory and practice. It considers the role of the financial system in an economy, how monetary policy is implemented and the use of different financial instruments such as bonds, stocks and derivatives.

**E** [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Financial markets, securities and derivatives
- International corporate finance
- Monetary policy and the role of central banks
- Modern theory of banking and finance.

#### Optional courses may include:

- Basic econometrics
- Financial analysis and equity valuation
- Financial institutions and markets in developing countries
- Foreign direct investment and development
- International banking and financial markets
- International capital markets
- International financial accounting for MNCs
- International financial management
- International macroeconomics and policy
- International trade
- Project planning, appraisal and implementation
- Public finance
- IMF, World Bank and economic growth
- The law and economics of sovereign debt regulation.

#### Career prospects

If you want to work in an international financial environment, this programme is designed for you. Our graduates are working in roles such as finance officers, research fellows, accountants, general managers and analysts. Recent employers include companies such as PwC, HSBC, Deloitte and Barclays.

## International Trade & Finance

**MSc:** 12 months full-time

This programme will provide you with knowledge and training in international economics and its two components: international trade, and international finance and money.

**E** [business-economics@glasgow.ac.uk](mailto:business-economics@glasgow.ac.uk)

### Programme structure

You will take five core and one optional course and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Basic econometrics
- International finance and money
- International trade
- Macroeconomics
- Microeconomics.

#### Optional courses may include:

- Economic fundamentals and financial markets
- Financial institutions and markets in developing countries
- Foreign direct investment and development
- Game theory with applications in economics and finance
- Intermediate econometrics
- Investment, finance and asset prices
- Modelling and forecasting financial markets
- Public finance
- The law and economics of sovereign debt regulation.

#### Career prospects

As a graduate you will be well prepared for a career in the academic sector and institutions such as banks and government organisations which are involved in transactions and policies in trade and finance at the international level. Graduates from this programme have gone on to careers in academia, finance, management and commerce.

## Investment Banking & Finance

**MSc:** 12 months full-time

This programme will offer you training in the key areas of investment banking and financial investment. You will acquire an understanding of how financial markets operate, particularly in relation to the aims and operations of banking organisations and institutions.

**✉ business-economics@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Corporate finance and investment
- Financial markets, securities and derivatives
- Modern theory of banking and finance
- Portfolio analysis and investment.

#### Optional courses may include:

- Advanced portfolio analysis
- Basic econometrics
- Economic fundamentals and financial markets
- Financial derivatives (Mathematical finance is a co-requisite for this course)
- Foreign direct investment and development
- International finance and money
- Investment, finance and asset prices
- Mathematical finance
- Monetary policy and the role of central banks
- The law and economics of sovereign debt regulations.

#### Career prospects

As a graduate you will have future career opportunities with various financial institutions including investment banks, hedge funds, financial consultancies and asset management firms. The programme also provides a strong foundation for PhD research. Recent graduates of this programme have been employed in various senior roles such as Operations Manager, Project Manager, Senior Analyst and Business Manager.

## Investment Fund Management

**MSc:** 12 months full-time

This programme will provide you with training in the key areas of investment fund management with particular emphasis on hedge fund management and applications of financial engineering.

**✉ business-economics@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Advanced portfolio analysis
- Financial markets, securities and derivatives
- Hedge fund risk management
- Portfolio analysis and investment.

#### Optional courses may include:

- Applied computational finance
- Basic econometrics
- Financial derivatives (Mathematical finance is a co-requisite for this course)
- Financial market micro structure
- Mathematical finance
- The law and economics of sovereign debt regulation.

#### Career prospects

This programme is for those wishing to pursue a career in investment fund management such as asset management companies, hedge funds, wealth management banks, regulators and central banks. Graduates have found work as researchers, investment analysts, graduate trainees and investment associates.

## Quantitative Finance

**MSc:** 12 months full-time

This programme will offer you training in the core areas of finance. It draws on recent developments in each of the subject areas with a quantitative approach to understanding the structure of financial markets and forecasting their expected movements.

**✉ business-economics@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses and complete a substantial independent piece of work, normally in the form of a dissertation.

#### Core courses

- Basic econometrics
- Financial derivatives
- Mathematical finance
- Modelling and forecasting financial markets.

#### Optional courses may include:

- Advanced portfolio analysis
- Applied computational finance
- C++ in finance
- Empirical asset pricing
- Economic fundamentals and financial markets
- Financial market micro structure
- Game theory with applications in economics and finance
- Portfolio analysis and investment (co-requisite for Advanced portfolio analysis).

#### Career prospects

This programme will prepare you for a career in financial institutions, government organisations and international organisations such as the International Monetary Fund and World Bank. Graduates from this programme have embarked on careers such as consultants, lecturers, senior analysts, and PhD researchers.

## Research opportunities

We offer PhDs in the following research areas:

- Economics: microeconomics, macroeconomics, international finance, financial economics, development economics
- Finance
- Quantitative finance.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/research/opportunities/subjects/economics](http://glasgow.ac.uk/research/opportunities/subjects/economics)

# EDUCATION

Education at Glasgow brings together national and international expertise in all aspects of learning, from pre-five to adult and continuing education.

Our extensive links with schools, local authorities and the Scottish Government mean that if you choose to study with us, you can benefit from degree programmes that are based on the most up-to-date research, helping you to further your career.

Our areas of specialist knowledge include:

- Educational leadership and management
- Science, engineering and technology education
- Teacher education and professional learning
- Citizenship and values education.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Academic Practice

**PgCert:** 24 – 36 months part-time

This Postgraduate Certificate, which includes the 'Teaching and Supervision' courses, provides a route for academic staff to show fulfilment of the UK Professional Standards Framework for teaching and supporting learning in higher education.

 [ltc-pgcap@glasgow.ac.uk](mailto:ltc-pgcap@glasgow.ac.uk)

### Programme structure

The Postgraduate Certificate consists of core and optional courses involving small numbers of participants utilising an interactive, discussion-based classroom approach. You will take two core courses (which form the TSC) and two optional courses.

#### Core courses

- Learning and teaching in higher education
- Developing effective supervision practices.

#### Optional courses may include:

The key areas of learning, teaching and assessment include:

- course and curriculum design
- evaluation of teaching practice
- principles of assessment and feedback
- research supervisions
- teaching methodologies including lecturing, small group work and online learning.

#### Career prospects

It is likely you will already be employed within higher education. The professional accreditation and skills you gain should help enhance your career and enable you to gain professional recognition for teaching and supporting learning in higher education.

## Adult Education, Community Development & Youth Work

**MEd:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 18 months part-time

This programme offers you the opportunity to study the theoretical and practical dimensions of adult, community and youth development. It will equip you with the skills and knowledge to work alongside people in communities to initiate sustainable social change.

 [dave.beck@glasgow.ac.uk](mailto:dave.beck@glasgow.ac.uk)

### Programme structure

You will take two core and two optional courses from a specialist pathway. There is a large practical element either in the form of a placement or as part of your current workplace. Throughout the programme there is emphasis on participative and experiential learning. For the MEd you will also undertake an in-depth supervised research project, on a related topic of your choosing.

#### Core courses

- Practice and policy inquiry
- Theoretical frameworks for practice.

#### Optional courses may include:

##### Adult Education

- Curriculum development in adult education
- The psychology of adult learning.

##### Community Development

- Educational approaches to community learning and development
- Empowerment and social change.

##### Youth Studies

- Perspectives in youth and young adulthood
- Working with youth: Education and learning for change.

#### Career prospects

You will have many employment opportunities open to you in the areas of community development work, youth work, health, housing and social and economic regeneration. With an accredited CLD Standards Council for Scotland qualification, you will have the opportunity to work for local authorities, the voluntary sector and further and higher education institutions.

## Adult Education for Social Change (Erasmus Mundus International Master)

**IntM:** 24 months full-time

This is a two year joint Masters degree awarded by a consortium comprising the University of Glasgow, the University of Malta, Tallinn University, and the Open University of Cyprus. It is recognised by the European Commission as an Erasmus Mundus Joint Masters Degree.

 [imaesc@glasgow.ac.uk](mailto:imaesc@glasgow.ac.uk)

### Programme structure

The programme combines expertise of adult education in the following context and mobility periods.

#### Core courses

##### Semester 1

- September – December (Glasgow); Community learning/city regeneration environments and placement.

##### Semester 2

- January – May (Malta); Refugee environments including English language teaching to migrants in times of austerity and placement and research methods (online by Cyprus).

##### Summer (optional)

- June – August (Penang or Hamburg); Peace studies and sustainability or internship.

##### Semester 3

- September – January (Tallinn); Recognising prior learning and professionalising the role of adult educators + placement + teaching adult education online (online by Cyprus).

##### Semester 4

- February – July (Glasgow, Malta or Tallinn, depending on focus of dissertation).

#### Career prospects

Graduates will be equipped with academic knowledge, research skills, and practical employability skills through this jointly developed and delivered programme. You will find employment teaching and facilitating change in schools, communities and workplaces, advocating through activism or influencing policy in international NGOs and governments, as well as undertaking research that uncovers new knowledge about how adult education can help eliminate social injustice.

## Advanced Educational Leadership (online)

PgCert Online Distance Learning:  
12 months part-time

This online programme is designed to enable those in key roles in the education sector to develop and advance their leadership knowledge and practice to influence and lead change in local, national and global contexts, in strategic, flexible and agile ways.

**✉** [education-onlinemsc@glasgow.ac.uk](mailto:education-onlinemsc@glasgow.ac.uk)

### Programme structure

You will take three courses which will be delivered online. There will be an intensive three-day study weekend at the University of Glasgow including an opportunity for you to meet other students in face-to-face sessions.

#### Core courses

- Developing as a strategic leader
- Leading strategic change
- The dynamics and dilemma of ethical leadership.

#### Career prospects

This programme aims to bring together aspiring world leaders in the field of education to create a global network that will have the academic and professional knowledge and skills to address the challenges facing education today and in the future. The programme, and its counterpart programme at McGill University, aims to advance the careers of the world's education leaders.

## Assessment in Education (online)

**MSc Online Distance Learning:** 36 months part-time

This online distance learning programme engages critically with major issues in assessment, a highly significant topic for education systems across the world. It develops skills of assessment in relation to individual learners, to classrooms and schools and to local, national and international systems.

**✉** [education-onlinemsc@glasgow.ac.uk](mailto:education-onlinemsc@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses across years 1 and 2. In year 3 you complete a piece of independent research, normally in the form of a dissertation. The full programme is delivered online utilising innovative technologies within a fully supported and interactive learning environment.

#### Core courses

- Assessment for improvement, accountability and social justice
- Assessment for learning and progression
- Principles and practice of research
- Principles and theory of assessment for social justice.

#### Optional courses may include:

- Curriculum, assessment and pedagogy: International perspectives
- Curriculum, assessment and pedagogy: Understanding learners
- Socially just assessment futures in the school context
- Theoretical underpinning and practical issues in tests and examinations.

#### Career prospects

This programme addresses needs recognised as significant for local, national and international students, both teachers and policy makers. It will build a network of graduates who have high-level knowledge, skills, and capabilities in assessment. The knowledge, skills and academic and professional standing gained will enable you to contribute effectively to local and national policy making in your own context. You will also be well equipped to undertake further study through doctoral research.

## Childhood Practice

**MEd:** 36 months part-time

**PgDip:** 24 months part-time

This programme is designed for current and aspiring leaders and managers in childhood practice who have undertaken, or are willing to undertake, a practitioner qualification. It provides a practice-based examination of the theoretical approaches important to leadership and management within childhood practice.

**✉** [mary.wingrave@glasgow.ac.uk](mailto:mary.wingrave@glasgow.ac.uk)

### Programme structure

You will take six core courses. Courses will be delivered through a combination of lectures, seminars, tutorials and group project work.

You will develop the research, writing and professional skills to enable you to register with the Scottish Social Services Council at a manager level.

#### Core courses

- Childhood practice: building a professional learning community
- Contemporary perspectives on children and childhoods
- Leading improvements in childhood practice
- Practice placement A
- Practice placement B
- Practitioner enquiry and decision making.

#### Career prospects

If you have a leadership role in childhood practice settings (or are looking for such a role) the programme will enhance your personal and professional development.

## Children's Literature & Literacies

**MEd:** 12 months full-time; 24/36 months part-time

This is the first programme in Scotland dedicated to children's and young adults' literature as a primary resource and a field of academic study. You will develop a specialisation that is highly valued in professions such as education, library services and children's media.

**✉** [evelyn.arizpe@glasgow.ac.uk](mailto:evelyn.arizpe@glasgow.ac.uk)

### Programme structure

You will take five core courses and one optional course and produce a dissertation based on a specialised topic.

#### Core courses

- Children's literature and literacies: critical enquiry
- Introduction to educational and social research
- Modern educational thought
- Reframing language, literature and literacies for 21st century life
- Texts for children: from the printing press to virtual reality.

#### Optional courses may include:

- Advanced educational research
- Developing literacy
- Identities, relationships and behaviours
- International and comparative education
- Texts for diversity: language across learning for children with English as an additional language.

#### Career prospects

This programme is an excellent source of professional development if you're already working in education, library services or children's media, or are looking to move into these areas.

## Children's Literature, Media & Culture

IntM: 24 months full-time

This unique, two-year degree provides an interdisciplinary study of the interaction between children, texts and media, along with the opportunity to study and live in at least three European countries. You will be able to engage with an array of cultural events related to children's literature and media, and participate in a placement with a practitioner organisation.

**e** [evelyn.arizpe@glasgow.ac.uk](mailto:evelyn.arizpe@glasgow.ac.uk)

### Programme structure

The programme is structured around a series of mobility periods across two years when you study at the programme universities for one semester each. The periods of mobility are designed to enable you to engage with a variety of perspectives on the three core themes of the programme and promote valuable knowledge and practical skills-based outcomes that will feed into future career opportunities.

#### Semester 1:

- September – December (Glasgow): Historical and critical perspectives.

#### Semester 2:

- January – May (Aarhus): Children's Literature in a mediated world.

#### Summer (optional):

- June – August (Vancouver).

#### Semester 3:

- September – January: Pathway 1 (Barcelona) – Promotion of reading OR Pathway 2 (Tilburg) – Transcultural trajectories.

#### Semester 4:

- February – July (Glasgow, Aarhus, Tilburg or Barcelona): independent study; dissertation.

### Career prospects

Graduates will develop key skills sought by many employers, including the ability to find, select and analyse texts and empirical data; confident and persuasive oral and written communication skills; and problem solving through creative and critical thinking. The programme provides excellent preparation for careers in media, education and literacy, publishing, archive and information studies, heritage and creative industries, as well as a springboard for PhD study and an academic career.

## Education (online)

### MSc Online Distance Learning:

30 months part-time; up to 5 years maximum

### PgDip Online Distance Learning:

24 months part-time

### PgCert Online Distance Learning:

12 months part-time

This programme offers you the opportunity to study at postgraduate level on a flexible, high-quality online distance learning basis. Building on your professional and personal interests and experiences, the programme will deepen and broaden your knowledge and understanding of education. Participating in analysis, critique and discussion of cutting-edge research, current practices and relevant policies, you will study in an online learning community.

**e** [education-onlinemsc@glasgow.ac.uk](mailto:education-onlinemsc@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses in years 1 and 2. You will also complete a dissertation in year 3 which reflects your research interests.

In addition to the general degree programme you have the opportunity to study on a specialist pathway.

- Adult education
- Children's literature and literacies
- Curriculum, assessment and pedagogy
- Educational leadership
- Inclusive and special education
- Religious education
- TESOL
- Youth studies.

If undertaking the general degree programme, you have an opportunity to select from the specialist optional courses available in your year of study.

### Career prospects

Career opportunities may include work in and across different educational sectors, including mainstream education, adult education, informal and community education and development, educational leadership, youth work, and educational publishing and policy-making. You will also be qualified to proceed to study for a PhD or EdD.

## Education (Primary/Secondary)

### Postgraduate Diploma in Education (PGDE):

10 months full-time.

Applications to PGDE must be made through UCAS.

This is a Masters-level qualification in teacher education.

**e** [education-admissions@glasgow.ac.uk](mailto:education-admissions@glasgow.ac.uk)

### Programme structure

The programme will prepare you to meet the demands of the profession through the following areas of study:

- Understanding learning and teaching
- Learning and teaching in the primary curriculum OR Learning and teaching in the secondary curriculum
- Professional enquiry
- School placements.

We also offer the Catholic Teacher's Certificate in Religious Education.

Secondary teaching qualifications are offered in the following subjects:

- Art and design
- Biology
- Business education
- Chemistry
- Computing
- English
- Geography
- History
- Mathematics
- Modern languages (French, French with Spanish, French with Italian, French with German, Spanish with French)
- Modern studies
- Physics
- Religious education.

### Career prospects

You will have the General Teaching Council for Scotland qualification to pursue teaching roles in primary and secondary schools. Many of our graduates are teaching not only in Scotland's primary and secondary schools, but throughout the UK and abroad.

## Education, Public Policy & Equity

### MSc: 12 months full-time; 24 months part-time

This programme provides the broad preparation needed for work in education policy. The teaching methods emphasise dealing with applied issues and facilitate your development as a critical thinker through engaging with real-life issues.

**e** [kristinn.hermannsson@glasgow.ac.uk](mailto:kristinn.hermannsson@glasgow.ac.uk)

### Programme structure

You will take five core and one optional course, and complete a research dissertation.

#### Core courses

- Education and public policy
- Educational policy making in action
- Equity, social justice and change
- International and comparative education
- Practitioner enquiry and decision-making A.

#### Optional courses may include:

- Economics for education and public policy
- Higher education as a field of research, policy and practice
- International education policy
- Leadership in implementing education policy
- Modern education thought.

### Career prospects

Graduates will be equipped for careers as analysts, consultants, administrators, policy makers and leaders in the governance of education, whether in local, regional or national governments, international organisations, NGOs or large-scale education providers, such as school chains or private sector education firms.

Education is increasingly seen as part of a broader spectrum of public policy issues relating to health, social policy and the economy. Furthermore, it is expected to achieve an ever wider range of objectives, and policy discourse on education is increasingly international in scope. Therefore, working with education policy requires individuals with a broad skill-set and an international outlook.

## Educational Studies (MSc)

**MSc:** 12 months full-time; 24 months part-time

This programme deepens your understanding of education so that you can better analyse the practice, provisions and policy that are critical within your own professional context. It supports you in interrogating research literature and in undertaking educational research in your own areas of study.

**✉ laura.baggley@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses. These courses contribute to your development of research understanding and skills that then support you in conducting your own research-based dissertation.

#### Core courses

- Advanced educational research
- Introduction to educational and social research
- Modern educational thought
- Seminars in contemporary issues in education.

#### Optional courses may include:

- Curriculum development in adult education
- Developing literacy
- Economics for education
- Education and international development
- Educational approaches to community learning and development
- Empowerment and social change
- Higher education as a field of research, policy and practice
- Highly able learners
- Identities, relationships and behaviours
- Inclusive classrooms, inclusive pedagogies
- International and comparative education
- Leadership in implementing education policy
- Perspectives of youth and young adulthood
- The evolving concept of inclusion
- The learner and the curriculum
- Work-related learning
- Working with youth: Education and learning for change.

#### Career prospects

The programme will support your career development as a class teacher, lecturer, policy developer, special education professional, head teacher, education administrator or researcher.

## Educational Studies (MEd)

**MEd:** 12 months full-time; 24 months part-time

This programme deepens your understanding of education so that you can better analyse the practice, provisions and policy that are critical within your own professional context. It supports you in interrogating research literature and in undertaking educational research in your own areas of study.

**✉ laura.baggley@glasgow.ac.uk**

### Programme structure

You will take three core and three optional courses. These courses contribute to your development of research understanding and skills that then support you in conducting your own research-based dissertation.

#### Core courses

- Introduction to educational and social research
- Modern educational thought
- Seminars in contemporary issues in education.

#### Optional courses may include:

- Advanced educational research
- Curriculum development in adult education
- Developing literacy
- Economics for education
- Education and international development
- Educational approaches to community learning and development
- Empowerment and social change
- Higher education as a field of research, policy and practice
- Highly able learners
- Identities, relationships and behaviours
- Inclusive classrooms, inclusive pedagogies
- International and comparative education
- Leadership in implementing education policy
- Perspectives of youth and young adulthood
- The evolving concept of inclusion
- The learner and the curriculum
- The psychology of adult learning
- Working with youth: Education and learning for change.

#### Career prospects

The programme will support your career development as a class teacher, lecturer, policy developer, special education professional, head teacher, education administrator or researcher.

## Educational Studies (Adult Education, Community Development & Youth Studies)

**MSc:** 12 months full-time; 24 months part-time

This programme provides you with the opportunity to study established and emerging theoretical dimensions of adult education, community development and youth studies. You will gain in-depth knowledge in a specialism of your choosing, as well as a solid foundation in educational and social research.

**✉ bonnie.slade@glasgow.ac.uk**

### Programme structure

You will take four core courses (two of which will be dependent on your chosen specialist pathway) and two optional courses (chosen from the other specialist pathways). You will also undertake a research dissertation in your chosen specialism. Courses employ a range of teaching methods including lectures, seminars, teamwork and participatory teaching methods.

#### Core courses

- Introduction to educational and social research
- Modern educational thought.

#### Adult Education

- International issues in adult and continuing education
- The psychology of adult learning.

#### Community Development

- Educational approaches to community learning and development
- Empowerment and social change.

#### Youth Studies

- Perspectives of youth and young adulthood
- Working with youth: Education and learning for change.

#### Career prospects

You will be well equipped for careers in public, private and third sector agencies concerned with adult education, community development or youth work, as well as policy development. In addition, it is an excellent professional development choice for those currently working in any of the three specialist fields. The programme also provides a solid pathway towards doctoral-level study.

## DUMFRIES CAMPUS

### Enhanced Practice in Education

**MSc:** 12 months full-time; 24 months part-time

This programme, based at our Dumfries campus, will provide you with the opportunity to develop confidence and skills to apply the principles of practitioner-based enquiry in education within your own work settings in order to initiate beneficial changes to your workplace. Through this programme, you will be able to apply knowledge and understanding in leadership to improve your practice and become an effective practitioner.

**✉ dumfries-admin@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses, followed by a research project.

#### Core courses

- Advanced research methods
- Leadership and management
- Reflective practice and action research
- Working in an inter-agency environment.

#### Optional courses may include:

- Climate change: Impacts on ecology
- Critical perspectives on knowledge and power
- Critical thinking and communication
- Environment, technology and society
- Environmental communication
- Environmental ethics and behavioural change
- Environmental politics and society
- Reading the environment
- Tourism, sustainability and climate change
- Writing the environment.

#### Career prospects

On completion of the programme, you will have all the necessary attributes to progress to, or enhance your capabilities in, a leadership role within your organisation. If you work directly with young people (teachers, youth workers, police officers, probation officers, health workers), the programme is a worthwhile step in your professional development. It also provides a foundation for an academic career. The programme will support your career development as a class teacher, lecturer, policy developer, special education professional, head teacher, education administrator or researcher.

## Inclusive Education: Research, Policy & Practice (MEd)

**MEd:** 12 months full-time;  
72 months (maximum) part-time

This programme is designed to address contemporary issues in inclusion/special education. If you are a policy maker involved in inclusive education/special education at pre-school, school or tertiary level, this programme is designed to promote your understanding of the issues and practices relevant to this area. Specialisation within this programme is also possible.

**E** [margaret.sutherland@glasgow.ac.uk](mailto:margaret.sutherland@glasgow.ac.uk)

### Programme structure

You will take four core courses and two optional courses, which you can choose according to your specialist interests. In addition you will complete a dissertation, under supervision, that will provide you with the opportunity to investigate, in greater depth, an issue that is relevant to your professional development and teaching context.

#### Core courses

- Introduction to educational and social research
- Modern educational thought
- The evolving concept of inclusion
- The learner and the curriculum.

#### Optional courses may include:

- Developing literacy
- Highly able learners
- Inclusive classrooms, inclusive pedagogies
- Identities, relationships and behaviours.

#### Career prospects

The programme will support your career development as a class teacher, lecturer, policy developer, special education professional, head teacher, education administrator or researcher.

## Inclusive Education: Research, Policy & Practice (PgDip/PgCert) (online)

**PgDip Online Distance Learning:**  
24 months part-time

**PgCert Online Distance Learning:**  
12 months part-time

These programmes are designed to address contemporary issues in inclusion/special education. If you are a teacher involved in inclusive education/special education, this programme is designed to promote your understanding of the issues and practices relevant to this area.

**E** [margaret.sutherland@glasgow.ac.uk](mailto:margaret.sutherland@glasgow.ac.uk)

### Programme structure

Day and evening classes take place on the main campus of the University. The Distance Education programme includes structured materials and a face-to-face session on campus (usually a Saturday).

On the PgCert you will take three courses including two core courses and one optional course. Those who continue on to the PgDip builds will take one additional optional course and a practitioner enquiry-based research course.

#### Core courses

- The evolving concept of inclusion
- The learner and the curriculum.

#### Optional courses may include:

- Developing literacy
- Highly able learners
- Inclusive classrooms, inclusive pedagogies
- Identities, relationships and behaviours.

#### Career prospects

The programme will support your career development as a class teacher, lecturer, policy developer, special education professional, head teacher, education administrator or researcher.

## Into Headship

**PgCert:** 12 months part-time

This professional programme is designed for aspiring school principals and school leaders in Scotland, to enable you to attain the Standard for Headship (GTCS, 2012). Through professional pedagogies, it focuses specifically on enabling you to develop a strategic approach to educational change.

**E** [margery.mcmahon@glasgow.ac.uk](mailto:margery.mcmahon@glasgow.ac.uk)

### Programme structure

You will take two core courses which are delivered via blended learning, combining face-to-face sessions (day schools, taking place on Wednesdays) with online sessions.

#### Core courses

- Developing as a strategic leader (Three day schools)
- Leading strategic change (Five day schools).

The model of learning embedded within the programme is the development of theory in practice. You will learn through:

- **Reflection on/in practice:** through professional learning, becoming curious about and critically exploring professional practice.
- **Experiential learning:** learning through structured activities to question, try out and enhance practice.
- **Cognitive development:** developing ideas to challenge assumptions and deepen understanding of practice.
- **Collaborative learning:** learning with and through others to enhance practice.

#### Career prospects

The programme aims to ensure aspirant head teachers are supported to develop and continue to build the necessary knowledge, skills and understanding required of senior leaders. The qualification is aimed at those teachers whose next post will be that of a head teacher, likely to be within two to three years.

## Learning & Teaching in Higher Education (online)

**MEd Online Distance Learning:**  
36 months part-time

**PgDip Online Distance Learning:**  
24 months part-time

**PgCert Online Distance Learning:**  
12 months part-time (one week face-to-face teaching in Glasgow at the start of the year, otherwise distance learning)

This programme offers the opportunity to deepen your understanding of academic practice within the university setting.

**E** [ltc-medithe@glasgow.ac.uk](mailto:ltc-medithe@glasgow.ac.uk)

### Programme structure

The first week of the programme for the PgCert is taught face-to-face at the University of Glasgow. The remainder is taught entirely online, allowing flexibility for you to balance your study and work commitments.

#### Year 1: PgCert

- Designing effective learning and teaching in higher education
- Developing as a teacher in higher education: responding to learners
- Evaluating learning, teaching and assessment in higher education.

#### Year 2: PgDip

- Designing higher education research
- Evaluating the quality of higher education research
- Exploring key themes in academic practice.

#### Year 3: MEd

- Dissertation.

#### Career prospects

Masters-level study is increasingly recognised in the UK HE sector for staff development. The knowledge and skills you gain during this programme will help enhance your career in the university environment.

## Learning & Teaching of Modern Languages in the Primary School

PgCert: 15 months part-time

The programme will give you a better understanding of foreign language learning and teaching processes in a primary setting. It has a focus on the interrelationship between theoretical understanding and practice.

[hazel.crichton@glasgow.ac.uk](mailto:hazel.crichton@glasgow.ac.uk)

### Programme structure

#### Core courses

- Language acquisition and language learning and teaching
- Language and culture
- Language and knowledge about language.

### Career prospects

It is likely you will already be employed within education. The professional development you gain on this programme should help enhance your career.

## Middle Leadership & Management in Schools

PgCert: 24 months part-time

This programme for practising teachers covers the major elements of middle leadership and management in schools and is designed to provide you with a critical understanding of the principles underpinning middle leadership and management.

[amy.mcknight@glasgow.ac.uk](mailto:amy.mcknight@glasgow.ac.uk)

### Programme structure

Each course combines a taught element, a distance learning element and an assignment drawing from your work in school. You will also participate in online activities to support the development of practice-focused tasks and assignments.

#### Core courses

- Building a professional learning community
- Leadership for learning
- Leading improvement in learning.

### Progression

This PgCert forms part of the MEd Professional Learning and Enquiry degree programme.

### Career prospects

As a graduate you would have all the necessary attributes to progress into, or enhance your capabilities in, a leadership role within schools.

## Museum Education

MSc: 12 months full-time;  
24 months part-time



This programme will provide you with opportunities to develop a critical awareness of the historical, social, political, ethical and philosophical context of educating in and through the museum. It draws on the vast experience of academic staff, renowned for world-class, research-led teaching and will offer a unique link to the world-leading collections available within The Hunterian and other world-famous Glasgow museums.

[margaret.jago@glasgow.ac.uk](mailto:margaret.jago@glasgow.ac.uk)

### Programme structure

The programme comprises a blend of online and experiential learning opportunities. In addition to practical tutorials, you will engage with the online environment in order to share your ideas and experiences with other students.

The programme will encompass fieldwork in a variety of museum education-related settings and you will also have the opportunity to participate in field trips to a variety of museums, renowned for their varied and world-leading collections.

Core teaching is followed by a dissertation in which you will have the opportunity to identify an area of interest and to create a research project that allows in-depth critical explanation of your selected theme.

#### Core courses

- Access and inclusion
- Introduction to educational and social research
- Modern educational thought
- Museums, education and curriculum development
- The museum as a source for learning
- Theory into practice (placement).

### Career prospects

This is a unique opportunity for teachers to secure a Masters qualification that will not only enhance their career prospects but that will extend, strengthen and instil confidence in their knowledge and skills in terms of learning in and through the museum. For those wishing to enter the field of museum education, or who already work in the sector, the programme offers the opportunity to develop practical skills and to apply theoretical knowledge through the placement.

## Museum Education (online)

MSc Online Distance Learning: 36 months part-time

This distance learning programme will provide you with exciting opportunities to develop critical knowledge and skills associated with learning in and through museums and galleries. Building on your academic, professional and personal experiences and qualifications, it will deepen your social, cultural, historical and philosophical understanding of museum education.

[education-onlinemsc@glasgow.ac.uk](mailto:education-onlinemsc@glasgow.ac.uk)

### Programme structure

Core teaching in years 1 and 2 is followed by a dissertation in year 3 in which you will have the opportunity to identify an area of interest and to create a research project that allows in-depth critical explanation of your selected theme. Teaching methods aim to visually and intellectually stimulate you in such a way as to recreate experiences associated with museum contexts and museum education. Films, podcasts, technologically generated images, online forums and other resources will be used to support learning. In year 2, you are required to undertake a placement in a setting relevant to your interest and area of expertise which will allow you to develop links with museum education bodies.

#### Core courses

##### Year 1

- Modern educational thinking
- Museums, education and curriculum development
- The museum as a source for learning.

##### Year 2

- Access and inclusion
- Introduction to educational research
- Theory into practice.

### Career prospects

Whether you work in the field of education, museums or cultural heritage, or have an interest in museum education, the programme will equip you with the required knowledge and skills to pursue a career in museum education, as well as associated contexts.

## Professional Learning & Enquiry

**MEd:** up to 5 years part-time on modular basis

This programme is designed for practising teachers who are either in or aspiring to leadership roles in education. The programme will cover the major elements of leadership and management in education and is designed to provide you with a critical understanding of the principles underpinning leadership and management.

**[mike.carroll@glasgow.ac.uk](mailto:mike.carroll@glasgow.ac.uk)**

### Programme structure

The programme is designed around teachers in full-time employment and follows a staged pathway towards a Masters qualification.

### Years 1 and 2

Teachers can choose a starting point appropriate to their experience and role:

- **Developing reflective practice** for teachers in the induction year to build on their experiences in school
- **Postgraduate Certificate in Teacher leadership and learning** for early-career teachers and teachers seeking to develop their teaching and leadership skills
- **Postgraduate Certificate in Middle leadership and management** for aspiring and serving middle leaders to build skills in middle leadership.

### Year 3

Optional courses selected from one of the following areas of study:

- Leading professional learning
- Middle leadership and management
- Supporting pupil learning
- Wider perspectives within educational studies such as inclusive education.

### Years 4 and 5

You will complete a dissertation in an area of professional interest alongside the research methods course.

### Career prospects

This programme is designed for teachers looking to develop their understanding of teacher leadership, as well as leading to the opportunity of progressing into a variety of leadership roles such as principal teacher or senior school leadership or working as part of a local authority improvement team.

## Professional Practice with PGDE

**MEd:** 18 months part-time

The MEd in Professional Practice is taken after you have completed your Postgraduate Diploma in Education at the University of Glasgow and wish to complete the remaining credits in order to gain a Masters qualification.

**[william.mcguire@glasgow.ac.uk](mailto:william.mcguire@glasgow.ac.uk)**

### Programme structure

This extension programme to the PGDE is delivered online with tutor and peer support on a part-time basis, comprising one taught course (practitioner enquiry and decision-making) and a professional practice dissertation, in order to fit in with workplace demands. You have five years from starting your PGDE study to complete this degree. There will also be face-to-face days (international students can participate via Skype).

### Career prospects

The majority of our graduates will pursue teaching roles in primary and secondary schools.

## Religious Education by Distance Learning (CREDL) (online)

**Cert Online Distance Learning:**

24 months part-time

This programme is recognised by the Bishops of Scotland as a preliminary qualification in generalist Catholic religious education for those who wish to teach religious education in Catholic primary or secondary schools. It is an online distance learning programme and covers aspects of theological education.

**[denise.porada@glasgow.ac.uk](mailto:denise.porada@glasgow.ac.uk)**

### Programme structure

#### Core courses

- Aspects of theological education 1
- Aspects of theological education 2.

For each course you will produce a portfolio and a 1,500 word essay.

### Career prospects

As a graduate you would have all the necessary attributes and accreditation to progress into teaching roles within Catholic education.

## Teacher Leadership & Learning

**PgCert:** 24 months part-time

This programme for practising teachers covers the major elements of teacher leadership and learning in schools and is designed to provide you with a critical understanding of the principles underpinning middle leadership and management. It will create structured and coherent opportunities to apply these principles to your own practice.

**[mike.carroll@glasgow.ac.uk](mailto:mike.carroll@glasgow.ac.uk)**

### Programme structure

Each course combines a taught element, a distance learning element and an assignment drawing from your work in school. You will also participate in online activities to support the development of practice-focused tasks and assignments.

#### Core courses

- Developing as a leader
- Leading a project
- Working collaboratively.

### Career prospects

As a graduate you would have all the necessary attributes to progress into, or enhance your capabilities in, a leadership role within schools.

## Teaching Adults

**MSc:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time; 18 months part-time

This programme provides you with a strong grounding in the practices and theoretical frameworks of teaching adults in various contexts of formal and informal education. In addition to core teaching, it includes a placement in an adult education setting and a research project designed around your specific area of interest.

**[mia.perry@glasgow.ac.uk](mailto:mia.perry@glasgow.ac.uk)**

### Programme structure

You will take four core courses and undertake a credit-bearing work placement. For the MSc you will also complete a supervised research project, usually in the form of a dissertation. The placement allows you to work with an adult education agency for 100 hours. You can choose your own type of organisation and we will help to set the placement up.

Courses are delivered through seminars, fieldwork and self-directed or group projects, which provide great opportunities to build professional and personal relationships.

### Core courses

- Curriculum development in adult and continuing education
- International issues in adult and continuing education
- Modern educational thought
- The psychology of adult learning.

### Career prospects

As a graduate, you will be well equipped to find roles in adult education in local councils, community organisations, healthcare departments, and adult literacy, as well as a wide range of vocational education contexts. Many of our graduates have also gained employment in the higher education sector, including international and UK universities and colleges.

## TESOL (MSc)

**MSc:** 12 months full-time; 24 months part-time

This programme is for those who are interested in entering the TESOL field to follow or develop a career as an English language teacher but at present have limited or no teaching experience.

**[carole.macdiarmid@glasgow.ac.uk](mailto:carole.macdiarmid@glasgow.ac.uk)**

### Programme structure

You will take four core and two optional courses. You will also undertake a supervised research dissertation on an issue relevant to your area of interest.

#### Core courses

- Classroom processes in TESOL (introduction to teaching and learning)
- Descriptions of language and applications to the classroom
- Developing professional practice in TESOL
- Introduction to educational and social research.

#### Optional courses may include:

- Advanced educational research
- Developing literacy
- Inclusive classrooms – inclusive pedagogies
- Language proficiency, assessment and feedback
- Modern educational thought
- Social, emotional and behavioural difficulties
- Teaching English for academic purposes
- The education of highly able pupils
- Which English? Sociolinguistics and language teaching.

### Career prospects

The programme is specially designed for those wishing to enter the field of teaching English as a foreign language.

## TESOL (MEd)

**MEd:** 12 months full-time; 24 months part-time

This programme is for the mid-career professional and covers contemporary issues in education. The programme's specific focus is on the teaching of English to speakers of other languages (TESOL) with a special emphasis on how theory relates to practice.

**[julie.e.mcadam@glasgow.ac.uk](mailto:julie.e.mcadam@glasgow.ac.uk)**

### Programme structure

You will take three core and three optional courses. You will also undertake a supervised research dissertation on an issue relevant to your area of interest.

#### Core courses

- Descriptions of language and applications to the classroom
- Introduction to educational and social research
- Language learning and applications to the classroom.

#### Optional courses may include:

- Advanced educational research
- Course design and practice in English Language Teaching
- Developing literacy
- Educational management and leadership
- Highly able pupils
- Language proficiency assessment and feedback
- Modern educational thought
- Social, emotional and behavioural difficulties
- Teaching English for academic purposes
- Which English? Sociolinguistics and language teaching.

### Career prospects

Career opportunities include positions as an English language teacher, course designer, test designer, course director and teacher educator.

## Research opportunities

We offer the following research study options:  
**PhD, MLitt, MPhil, MSc Research.**

Our research areas include:

- Creativity, culture and faith
- Interdisciplinary learning, education, technology and society
- Professional learning and leadership
- Social justice, place and lifelong education
- Curriculum, assessment and pedagogy.

We also have a research centre, the Robert Owen Centre for Educational change.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/research/opportunities/subjects/education](http://glasgow.ac.uk/research/opportunities/subjects/education)

# ENGINEERING

Glasgow has been delivering world-class engineering education and research for more than 150 years.

We are ranked fourth in the UK in terms of research excellence across all Engineering disciplines (REF 2014) and have world-leading expertise in the research and teaching of:

- Aerospace engineering
- Biomedical engineering
- Civil engineering
- Electronics and electrical engineering
- Mechanical engineering.

Working at the cutting-edge of technology, our research supports industrial innovation, helps preserve the environment and assists in the advancement of medical and biological science. By choosing to study with us, you will take advantage of a range of fully accredited degree programmes that set new standards in engineering education.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Aerospace Engineering

**MSc:** 12 months full-time

The Masters in Aerospace Engineering is a multi-disciplinary programme that covers all aspects of modern aircraft design. This involves developing essential knowledge and skills in advanced aerodynamics and aerospace systems. By choosing specific options in the second semester the degree programme can be tailored to provide specialisms in either Aeronautics or Systems.

 [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Aerospace Engineering include lectures, seminars and tutorials and the opportunity to take part in lab, project and teamwork. The summer period is dedicated to project work, with either academic or industrial placements providing the context for your project.

#### Core courses

- Aircraft flight dynamics
- Aerospace Control 1
- Navigation systems
- Simulation of aerospace systems
- Space flight dynamics 1.

#### Optional courses (four chosen)

- Aeroelasticity 5 or Aircraft vibration and Aeroelasticity 4
- Autonomous vehicle guidance systems
- CFD 5 or CFD 4
- Fault detection, isolation and reconfiguration
- High speed aerodynamics 4
- Radar and electro-optic systems.

#### Career prospects

Career opportunities include aerospace, defence, laser targeting systems, renewable energy, radar development, structural engineering, autonomous systems and systems modelling. Our graduates have gone on to positions such as: Graduate Engineer at UTC Aerospace Systems, Scientist at Fluid Gravity Engineering Ltd, Software Engineer at Hewlett-Packard, Avionic and Mission System Engineer at Qinetiq, Engineering Corporal and Driver at Hellenic Army.

## Aerospace Engineering & Management

**MSc:** 12 months full-time

The Masters in Aerospace Engineering & Management introduces you to contemporary business and management issues while increasing your depth of knowledge in your chosen aerospace engineering speciality.

 [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

September entry students start with management courses and January entry students with engineering courses.

#### Semester 1

You will be based in the Adam Smith Business School, developing knowledge and skills in management principles and techniques.

#### Core courses

- Contemporary issues in human resource management
- Managing creativity and innovation
- Managing innovative change
- Marketing management
- Operations management
- Project management.

#### Semester 2

You will study engineering courses, which aim to enhance your group working and project management capability at the same time as improving your depth of knowledge in chosen aerospace engineering subjects.

#### Core courses

- Integrated systems design project.

#### Optional courses (four chosen)

- Autonomous vehicle guidance systems
- Composite airframe structures
- Fault detection, isolation and reconfiguration
- Introduction to aeroelasticity
- Introduction to computational fluid dynamics
- Introduction to wind engineering
- Radar and electro-optic systems
- Robust control 5
- Spacecraft systems 2.

#### Career prospects

Career opportunities include positions in aerospace, defence, renewable energy, nuclear energy and management. You can also continue studying, for a research Masters or a PhD.

## Biomedical Engineering

**MSc:** 12 months full-time

The Masters in Biomedical Engineering is an interdisciplinary programme that will equip you for employment within the biomedical engineering sector. This programme addresses all the key aspects of biomedical engineering.

 [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Biomedical Engineering include lectures, seminars and tutorials and allow you the opportunity to take part in lab work, team work and study trips in the UK. You will undertake an MSc project working on a specific research area with one of the academics.

#### Core courses

- Applications of biomedical engineering
- Biological fluid mechanics
- Cellular biophysics
- Energy in biological systems
- Medical imaging
- Statistics for biomedical engineering
- MSc project.

#### Optional courses may include:

- Advanced imaging and therapy
- Applied engineering mechanics
- Bioinformatics and systems biology
- Biomechanics
- Biosensors and diagnostics
- Microscopy and optics
- Nanofabrication
- Rehabilitation engineering
- Scaffolds and tissues
- Signal processing of bio-signatures
- Tissue and cell engineering.

#### Career prospects

Career opportunities include positions in rehabilitation engineering, biomaterials for reconstructive surgery, biosensors, device and implant design and development, and biosignal processing.

## Civil Engineering

**MSc:** 12 months full-time

This Masters in Civil Engineering teaches you advanced knowledge and associated analytical and problem-solving skills in a range of key sub-disciplines of Civil Engineering. The MSc in Civil Engineering is intended for students with a first degree in Civil Engineering or a closely related discipline who wish to extend their expertise to a higher level in preparation for a professional career.

**[e pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)**

### Programme structure

Modes of delivery of the MSc Civil Engineering include lectures, tutorials, design classes and computing labs, and give you the opportunity to take part in team design projects, other coursework and project-based activities, and a major individual project.

#### Core courses

- Civil design project
- Integrated systems design project.

#### Optional courses may include:

Select a total of eight courses, at least five of which must be from List A:

#### List A

- Advanced soil mechanics 5
- Advanced structural analysis and dynamics 5
- Applied engineering mechanics 4
- Computational modelling of non-linear problems 5
- Introduction to wind engineering
- Principles of GIS
- Reclamation of contaminated land 5
- Structural concrete C5.

#### List B

- Environmental biotechnology 4
- Geotechnical engineering 4
- Ground engineering 4
- Renewable energy 4
- Structural analysis 4
- Structural design 4
- Transportation systems engineering 4.

#### Career prospects

Career opportunities include positions in civil engineering, structural engineering and environmental engineering, and working with design consultants, contractors and public authorities or utilities.

## Civil Engineering & Management

**MSc:** 12 months full-time

This Masters in Civil Engineering & Management introduces you to contemporary business and management issues while increasing your depth of knowledge in your chosen civil engineering specialty.

**[e pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)**

### Programme structure

September entry students start with management courses and January entry students with engineering courses.

#### Semester 1

You will be based in the Adam Smith Business School.

- Contemporary issues in human resource management
- Managing creativity and innovation
- Managing innovative change
- Marketing management
- Operations management
- Project management.

#### Semester 2

You will study engineering courses, which aim to enhance your group working and project management capability at the same time as improving your depth of knowledge in chosen civil engineering subjects.

- Integrated systems design project.

#### Optional courses may include:

Select a total of four courses from Lists A and B, at least one of which must be from List A:

#### List A

- Advanced soil mechanics 5
- Advanced structural analysis and dynamics 5
- Computational modelling of non-linear problems 5
- Introduction to wind engineering
- Principles of GIS.

#### List B

- Geotechnical engineering 3
- Ground engineering 4
- Recycling urban land
- Structural analysis 4
- Transportation systems engineering 4.

#### Project or dissertation

You will undertake an individual project or dissertation.

#### Career prospects

Career opportunities include positions in civil and environmental engineering consultancies; engineering contractors; and both local and national public authorities.

## Computer Systems Engineering

**MSc:** 12 months full-time

This Masters in Computer Systems Engineering exposes you to state-of-the-art miniaturised and mobile computer systems and smart device technology, allowing you to acquire the complementary hardware and software knowledge and skills required for understanding and designing such systems.

**[e pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)**

### Programme structure

Modes of delivery of the MSc in Computer Systems Engineering include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Digital signal processing
- Either networked systems or computer communications
- Human-computer interaction
- Software and requirements engineering
- MSc project.

#### Optional courses may include:

- Advanced operating systems
- Artificial intelligence
- Computer architecture
- Digital communications 4
- Human-centred security
- Information retrieval
- Internet technology
- Microwave and millimetre wave circuit design
- Optical communications
- Real-time embedded programming
- Safety critical systems.

#### Career prospects

Career opportunities include positions in software development, chip design, embedded system design, telecommunications, video systems, automation and control, aerospace, development of PC peripherals and FPGA programming, defence, and services for the heavy industries for example, generator and industrial motor control systems.

## Electronics & Electrical Engineering

**MSc:** 12 months full-time

This Masters in Electronics & Electrical Engineering is designed for both new graduates and more established engineers. It covers a broad spectrum of specialist topics with immediate application to industrial problems, from electrical supply through systems control to high-speed electronics.

**[e pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)**

### Programme structure

Modes of delivery of the MSc in Electronics & Electrical Engineering include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

You will undertake a project where you will apply your newly learned skills and show to future employers that you have been working on cutting-edge projects relevant to the industry.

#### Courses include (six normally chosen)

- Advanced integrated circuit design
- Bioelectronics
- Control
- Digital signal processing
- Electrical energy systems
- Energy conversion systems
- Micro- and nanotechnology
- Microwave electronic and optoelectronic devices
- Microwave and millimetre wave circuit design
- Optical communications
- Power electronics and drives
- Real-time embedded programming
- VLSI design
- MSc project.

#### Career prospects

Career opportunities include chip design, embedded system design, telecommunications, video systems, automation and control, aerospace, software development, development of PC peripherals and FPGA programming, defence, and services for the heavy industries, such as electricity generation equipment and renewables plant.

## Electronics & Electrical Engineering & Management

**MSc:** 12 months full-time

The Masters in Electronics & Electrical Engineering & Management introduces you to contemporary business and management issues while increasing your depth of knowledge in your chosen specialty of electronics and electrical engineering.

**e** [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

September entry students start with management courses and January entry students with engineering courses.

#### Semester 1

You will be based in the Adam Smith Business School.

#### Core courses

- Contemporary issues in human resource management
- Managing creativity and innovation
- Managing innovative change
- Marketing management
- Operations management
- Project management.

#### Semester 2

You will study engineering courses, which aim to enhance your group working and project management capability at the same time as improving your depth of knowledge in chosen electronics and electrical engineering subjects.

#### Core course

- Integrated systems design project.

#### Optional courses may include (a choice of two):

- Advanced integrated circuit design
- Electrical energy systems
- Micro-technology and nanotechnology
- Microwave and millimetre wave circuit design
- Microwave electronic and optoelectronic devices
- Optical communications
- Real-time embedded programming.

#### Project or dissertation

You will undertake an individual project or dissertation in summer.

#### Career prospects

Career opportunities include software development, chip design, embedded system design, telecommunications, video systems, automation and control, aerospace, development of PC peripherals and FPGA programming, defence, and services for the heavy industries such as electricity generation equipment and renewables plant.

## Mechanical Engineering

**MSc:** 12 months full-time

This Masters in Mechanical Engineering provides advanced experience of the central role that manufacture and design take in the integration of mechanical engineering.

**e** [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Mechanical Engineering include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work. You will undertake a project where you will apply your newly learned skills and show to future employers that you have been working on cutting-edge projects relevant to the industry.

#### Core courses

- Advanced manufacture
- Integrated engineering design project.

#### Optional courses may include:

- Advanced thermal engineering
- Control
- Dynamics
- Lasers
- Materials engineering
- Ultrasonics
- Vibration.

#### Career prospects

Career opportunities include positions in engineering design, materials and mechanics, dynamics, control and thermal science.

Graduates of this programme have gone on to positions such as: Technical Engineer at Bridon International and Solutions Project Engineer in state government.

#### Accreditation

The MSc Mechanical Engineering is accredited by the Institution of Mechanical Engineering. An accredited degree will provide you with some or all of the underpinning knowledge, understanding and skills for eventual registration as an Incorporated (IEng) or Chartered Engineer (CEng). Some employers recruit preferentially from accredited degrees, and an accredited degree is likely to be recognised by other countries that are signatories to international accords.

## Mechanical Engineering & Management

**MSc:** 12 months full-time

The Masters in Mechanical Engineering & Management offers you the opportunity to develop the knowledge and skills needed for modern engineering or technology management. The programme content includes design engineering and other mechanical engineering disciplines.

**e** [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

September entry students start with management courses and January entry students with engineering courses.

#### Semester 1

You will be based in the Adam Smith Business School.

#### Core courses

- Contemporary issues in human resource management
- Managing creativity and innovation
- Managing innovative change
- Marketing management
- Operations management
- Project management.

#### Semester 2

You will study engineering courses, which aim to enhance your group working and project management capability at the same time as improving your depth of knowledge in chosen mechanical engineering subjects.

#### Core course

- Integrated systems design project.

#### Optional courses may include:

- Dynamics
- Materials engineering
- Vibration.

#### Project or dissertation

You will undertake an individual project or dissertation work in the summer period.

#### Career prospects

Career opportunities include positions in project management, engineering design, materials and mechanics, dynamics and control.

Graduates of this programme have gone on to positions such as: Technology Engineer at Procter & Gamble and Quality Engineer at Worcester Bosch.

## Mechatronics

**MSc:** 12 months full-time

The Masters in Mechatronics is a fusion of mechanical, electrical, electronic and control engineering. Modern industry depends for its success in global markets on its ability to integrate these subjects into both the manufacturing process and innovative products and systems.

**e** [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Mechatronics include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work. You will undertake a project where you will apply your newly learned skills and show to future employers that you have been working on cutting-edge projects relevant to the industry.

#### Core courses normally offered include:

- Data signal processing
- Integrated system design project.

#### Optional courses may include:

- Advanced integrated circuit design
- Advanced manufacture
- Auto vehicle guidance systems
- Control
- Fault detection, isolation and reconfiguration
- Lasers
- Power electronics and drives
- Real-time embedded programming
- Robotics 4.

#### Career prospects

Career opportunities include manufacturing production systems; system design and manufacture; product engineering and manufacture.

Graduates of this programme have gone on to positions such as Senior Software Engineer at Wipro Technologies.

## Nanoscience & Nanotechnology

**MSc:** 12 months full-time

The Masters in Nanoscience & Nanotechnology teaches skills desired by modern industry for scientists and engineers doing research, development and production in nanoscience and nanofabrication. This multidisciplinary programme complements backgrounds in electronics, materials science or physics.

**c pgadmissions@glasgow.ac.uk**

### Programme structure

Modes of delivery of the MSc in Nanoscience & Nanotechnology include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Electronic devices
- Introduction to research in nanoscience and nanotechnology
- Micro-technology and nanotechnology
- Nanofabrication
- Research methods and techniques
- MSc project.

#### Optional courses may include:

- Applied optics
- Cellular biophysics
- Microwave electronic and optoelectronic devices
- Microwave and millimetre wave circuit design
- Microscopy and optics
- Nano and atomic scale imaging
- Semiconductor physics.

#### Career prospects

Companies actively recruit from Glasgow and our research in nanosciences, nanofabrication, nanoelectronics, optoelectronics and nanotechnology means you will have access to industry networks.

Former Glasgow graduates in the subject area of nanoscience and nanotechnology are now working for companies including Intel, TSMC, IBM, ST Microelectronics, Freescale, Oxford Instruments Plasma Technology, ASM, and Applied Materials.

## Product Design Engineering

**MSc:** 12 months full-time

The Masters in Product Design Engineering, taught in collaboration with the School of Design, Glasgow School of Art will develop your ability to design products with significant engineering content, address user needs, and optimise solutions for specific markets.

**c c.whittet@gsa.ac.uk**

### Programme structure

You will attend lectures, seminars and tutorials and take part in lab, project, team and studio work, industrial visits, and workshops.

#### Core courses

- Advanced manufacture
- Core research skills for postgraduates
- Human factors
- Integrated engineering design
- Micro-electronics in consumer products
- Product design engineering introduction project
- MSc project.

#### Optional courses may include:

- Instrumentation and data systems
- Software engineering
- The Glasgow School of Art elective (you will choose from a list of options).

#### Career prospects

Career opportunities include product research and development, system design, product manufacture and engineering design. The programme aims to provide opportunities to work on live projects with industry: this can lead to employment opportunities. Examples of companies that employ our Product Design Engineering graduates are Apple, Dell, Dyson, Jaguar Land Rover, TomTom and Smart.

#### Accreditation

The MSc Product Design Engineering is accredited by the Institution of Mechanical Engineering. An accredited degree will provide you with some or all of the underpinning knowledge, understanding and skills for eventual registration as an Incorporated (IEng) or Chartered Engineer (CEng). Some employers recruit preferentially from accredited degrees, and an accredited degree is likely to be recognised by other countries that are signatories to international accords.

## Structural Engineering

**MSc:** 12 months full-time

The goal of structural engineering is to predict the performance of structures under extreme events. This Masters in Structural Engineering provides you with a range of methods to analyse and design structures with quantifiable reliability over their design life.

**c pgadmissions@glasgow.ac.uk**

### Programme structure

Modes of delivery of the MSc in Structural Engineering include lectures, seminars, tutorials, a group design project and individual projects.

#### Core courses

- Advanced soil mechanics
- Advanced structural analysis and dynamics
- Computational modelling of nonlinear problems
- Finite element analysis
- Structural concrete
- Structural design
- Structural design project
- Structural engineering preliminary research project
- Structural engineering review project
- Wind engineering.

MSc students undertake an additional individual project.

#### Career prospects

This is a new programme which launched in 2016. However, it is a continuation of a former Structural Engineering & Mechanics MSc programme. Graduates from the former Structural Engineering & Mechanics programme have gone on to positions such as: Graduate Structural Engineer at Wood Group, Graduate Structural Engineer at Design ID, Structural Engineer at Fujian United Benefit Broad Sustainable Building Technology, Engineer at Jingzhen Construction and Supervision and Graduate Engineer at Reinertsen.

## Sustainable Energy

**MSc:** 12 months full-time

This Masters in Sustainable Energy is an interdisciplinary programme that will equip you for employment within the international energy sector, addressing all the key aspects of sustainable energy, from the most advanced technologies through to ethical and economic considerations.

**c pgadmissions@glasgow.ac.uk**

### Programme structure

Modes of delivery of the MSc in Sustainable Energy include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Energy and environment
- Energy conversion systems
- Energy from waste
- Integrated system design project
- Renewable energy
- MSc project.

#### Optional courses may include:

- Electrical energy systems
- Environmental biotechnology
- Environmental ethics and behavioural change
- Impacts of climate change
- Introduction to wind engineering
- Nuclear power reactors
- Power electronics
- Project planning, appraisal and implementation
- Theory and principles of sustainability.

#### Career prospects

Graduates may expect to forge careers in established energy generation and transmission companies, energy consultancy businesses, traditional companies moving rapidly into renewables, or fresh new companies in the wind, marine, solar or biomass sectors. Scotland, in particular, has seen great expansion in sustainable energy businesses in the last decade, with some of the best worldwide potential for wind, wave and tidal generation.

#### Accreditation

This programme is accredited by the Institution of Mechanical Engineering, which will provide you with the basis for registration as an Incorporated (IEng) or Chartered Engineer (CEng).

## Research opportunities

We offer the following research study options:

PhD, MSc (Res).

Our research expertise covers the following areas:

- Aerospace sciences – advanced systems, aerodynamics and fluid mechanics, flight dynamics, space systems
- Biomedical engineering – advanced medical diagnostics and lab-on-a-chip, cell and tissue engineering, rehabilitation engineering and assistive technologies, synthetic and systems biology
- Electronics and nanoscale engineering – semi-conductive device modelling, optoelectronics, micro and nanotechnology
- Infrastructure and environment – mechanics and materials, water and environment
- Systems, power and energy – energy, ultrasonics, materials and manufacture, space systems, science and music.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/schools/engineering/research/divisions](http://glasgow.ac.uk/schools/engineering/research/divisions)

‘This programme has been amazing; I have furthered my engineering knowledge while also developing my business skills within the Adam Smith Business School, which has been perfect for my career development!’

Kenneth, UK

Aerospace Engineering & Management (MSc) student

## ENGLISH & SCOTTISH LITERATURE & LANGUAGE

The University of Glasgow is one of the UK's oldest, largest and most dynamic centres for the study of English and Scottish literature and language.

Based within the School of Critical Studies we:

- host the only academic unit in the UK exclusively dedicated to the teaching and research of Scottish literature
- are home to the Centre for Robert Burns Studies, the only research centre dedicated to Scotland's national bard
- are home to the biggest Scottish Literature graduate programme in the world and have a successful record in students gaining major research funding
- have world-leading expertise in modern English language and linguistics, English historical linguistics, Scots and English in Scotland, and medieval English studies
- explore all aspects of literature in English from the medieval period onwards.

Over the years, famous graduates include William Boyd, William McIlvanney, Catherine Carswell, Janice Galloway and Christopher Brookmyre.

As a postgraduate taught student, you will take a research training course which will prepare you both to work on your dissertation and to develop a proposal and funding applications for a PhD, should you choose to pursue research at doctoral level.



For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## English Language & English Linguistics

MSc: 12 months full-time; 24 months part-time

You will combine advanced study in historical and modern aspects of English language and English linguistics. This programme provides career opportunities in research, teaching, publishing and lexicography among others.

[critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

You will learn through a combination of lectures, regular supervisions, formative essay writing and attendance at supplementary classes and seminars. Assessment includes a portfolio of essays.

You will undertake a number of core courses in historical and modern English language and English linguistics, including:

- Phonetics and phonology
- Sociolinguistics
- Semantics
- Discourse analysis and grammar.

You can also take courses on offer in some MLitt programmes in the College of Arts, such as Medieval & Early Modern English Literature & Culture, and Classics. You will take courses in research skills and methods.

The second half of the programme is dedicated to your individual dissertation work, under the guidance of an assigned supervisor.

Please note that the availability of core courses depends on staff availability in any session; the availability of option courses depends on student take-up and staff availability in any session.

### Career prospects

Career opportunities include teaching, publishing, digital analysis, journalism and lexicography. You can take advantage of opportunities to establish or advance your career as a writer or editor, or to work in museums, schools or academia. Other graduates have used their specialist knowledge to gain positions in the media or in business.

## English Literature

MLitt: 12 months full-time; 24 months part-time

This programme provides you with an outstanding learning experience with some of the UK's most respected English literature academics. It allows you the flexibility to tailor-make your own Masters by combining research and skills training with a wide range of specialist taught options in our areas of research expertise.

[critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

This programme involves taught courses plus a period of research and writing over the summer. You will study one core and five optional courses, and undertake supervised study of a specialised topic of your choice, researching and writing a 15,000 word dissertation. With the convener's permission, you may select one of your special topic courses from any MLitt course offered in the College of Arts.

We offer five pathways through the MLitt, depending on your special topic course choices and dissertation topic. These are:

- English Literature
- English Literature (Fantasy)
- English Literature (Medieval and Renaissance)
- English Literature (Modernities)
- English Literature (Victorian Literature).

This programme incorporates the school graduate training course, which will prepare you to work on your dissertation and to undertake a proposal and funding application for PhD work, should you choose to pursue doctoral research.

### Career prospects

The critical and analytic skills you will develop and the ability to conduct rigorous independent study, make this programme an ideal step towards an academic career. Other graduates have gone into careers in writing, editing, teaching and the media.

## English Literature: Fantasy

MLitt: 12 months full-time; 24 months part-time

Are you a fan of fantasy fiction? Or are you simply curious as to why the fantastic can be found all around us in the 21st century? This programme allows you to engage with one of the most vibrant literary genres of the last two centuries and a major cultural phenomenon of our time.

[critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

By choosing to study this programme, you will take the compulsory courses Fantasy 1 and 2 and a research training course, plus three optional courses. You will also undertake supervised study of a specialised topic of your choice, researching and writing a 15,000 word dissertation.

You will have the opportunity to meet and learn from visiting scholars, writers and publishers from the UK, Europe and the United States.

#### In semester 1 you will study:

- Fantasy 1
- Research training course
- One optional course.

#### In semester 2 you will study:

- Fantasy 2
- Two optional courses.

Part-time students take Fantasy 1 and 2, the graduate training course and one optional course in the first year, and two optional courses and the dissertation in their second year of study.

#### Optional courses may include:

You may choose from the available optional courses offered by the College of Arts (subject to approval by the relevant convener). Possible options include:

- Children's literature and literacies: critical enquiry
- Creative writing fiction workshop (crossdisciplinary)
- Decadence and the modern
- Finn in Gaelic literature
- Magical narratives: imagination, fantasy and the creation of worlds
- Science fiction.

### Career prospects

The critical and analytic skills you develop and the ability to conduct rigorous independent study make this programme an ideal step towards an academic career.

Graduates from English Literature have also gone on to careers in writing, editing, publishing, teaching and the media.

## English Literature (Medieval & Early Modern Literature & Culture)

MLitt: 12 months full-time; 24 months part-time

This taught Masters is a flexible, interdisciplinary programme taught by Glasgow's internationally renowned team of experts. It offers you the practical, historical and theoretical skills needed for advanced study in this area.

[critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

By choosing to study this programme you will take the compulsory courses, research training course, plus three optional courses. You will also undertake supervised study of a specialised topic of your choice, researching and writing a 15,000 word dissertation. You will be taught by a team who have an international reputation for delivering outstanding research-led teaching, with a particular focus on interdisciplinary and theoretically informed approaches to this literary period.

#### In semester 1 you will study:

- Medieval and Renaissance 1: from Medieval to Early Modern
- Research training course
- One optional course.

#### In semester 2 you will study:

- Medieval and Renaissance 1: from Medieval to Early Modern
- Two optional courses.

Part-time students take Medieval and Renaissance 1 and 2, the graduate training course and one optional course in the first year, and two optional courses and the dissertation in their second year of study.

#### Optional courses may include:

You can choose specialist topic courses from the range of subjects offered by English Literature at MLitt level; or, with the convener's permission, you may select from any MLitt course offered in the College of Arts.

### Career prospects

The programme provides an excellent preparation for PhD studies and an academic career. It also provides excellent training for museum, school and other related educational and vocational careers.

Positions held by recent graduates include Instructor and Editor, and Postdoctoral Researcher.

## English Literature: Modernities – Literature, Culture, Theory

MLitt: 12 months full-time; 24 months part-time

This programme investigates the key texts and concepts that shape our understanding of literature and culture from 1880 to the present. The texts you will study are related to developments in critical theory and other cultural practices such as film, theatre and the visual arts.

[critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

By choosing to study this programme you will take the compulsory courses Modernities 1 and 2 and a research training course, plus three optional courses. You will also undertake supervised study of a specialised topic of your choice, researching and writing a 15,000 word dissertation.

You will be taught by a team who have an international reputation for delivering outstanding research-led teaching, with a particular focus on interdisciplinary and theoretically informed approaches to this literary period.

#### In semester 1 you will study:

- Modernities 1
- Research training course
- One optional course.

#### In semester 2 you will study:

- Modernities 2
- Two optional courses.

Part-time students take Modernities 1 and 2, the research training course and one optional course in the first year, and two optional courses and the dissertation in their second year of study.

#### Optional courses may include:

You can choose specialist topic courses from the range of subjects offered by English Literature at MLitt level; or, with the convener's permission, you may select from any MLitt course offered in the College of Arts.

### Career prospects

The critical and analytic skills you develop and the ability to conduct rigorous independent study make this programme an ideal step towards an academic career.

Other graduates have gone into careers in writing, editing, teaching and the media.

Positions held by recent graduates include Executive Editor, Freelance Copywriter, Manager, English Instructor and Lecturer.

## English Literature: Victorian Literature

MLitt: 12 months full-time; 24 months part-time

This programme welcomes you to a lively intellectual and cultural scene. You will study with a group of world-class Victorianists whose expertise ranges across many aspects of literature and culture, and you'll be able to draw on the extraordinary resources of Glasgow's museums and libraries.

**E** [critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

The programme involves taught sessions over two ten-week teaching periods, plus a period of research and writing over the summer. You will study core and optional courses, and undertake supervised study of a specialised topic of your choice, researching and writing a 15,000 word dissertation.

You can choose optional courses from the range of Victorianist subjects; or, with the convener's permission, you may select from any MLitt course offered in the College of Arts.

Alongside the core and optional courses, you will take a research training course which will prepare you to work on your dissertation and to put together a proposal and funding application for PhD work, should you choose to pursue doctoral research.

In conjunction with the core courses we also offer an exciting series of workshops tailored to research on Victorian topics, including tours of our Special Collections, workshops on electronic resources, and field trips to sites of special interest such as the Murray Collection in the National Library of Scotland, Robert Owen's New Lanark, and the Royal College of Physicians and Surgeons.

You will have the opportunity to meet and learn from visiting scholars from the UK, Europe and the United States.

The programme is made up of three components. Core courses are taught over two ten-week teaching periods, from September to December and January to March. Optional courses are also taught in ten-week blocks. Full-time students usually study one topic course in semester 1 and two in semester 2. A dissertation is written during the final phase of the course, from April to September.

### Career prospects

You may develop skills sought by many employers, including the ability to find, select and manage large quantities of information; confident and persuasive oral and written communication; and problem solving through creative and critical thinking. The programme also provides an excellent platform for PhD studies.

### Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil and MRes.

Our research expertise covers the following areas:

- English language
- Historical English language, literature and medieval studies – including manuscript studies, codicology, textual and editing, literary and gender criticism, historical linguistics
- Scottish language, including written literary Scots, speech in Scotland and translation studies
- Modern English, including onomastics, semantics, phonetics, text analysis, sociolinguistics and intercultural language education
- Medieval studies (from the beginning to 1500)
- Renaissance studies (1500 – 1700)
- 18th-century romantic and Victorian studies (1700 – 1900)
- Modernism, contemporary literature and critical theory (1900 onwards)
- Scottish literature of the Renaissance
- 18th-century literary tradition
- Robert Burns studies
- Scottish Romanticism
- 20th-century Scottish modernism
- Contemporary Scottish literature.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/schools/critical/research](http://glasgow.ac.uk/schools/critical/research)

## ENVIRONMENT, SUSTAINABILITY & TOURISM

Teaching and research is based within our School of Interdisciplinary Studies at our stunning Dumfries campus set in 85 acres of leafy parkland.

We offer a range of postgraduate taught and research opportunities which can be studied on either a full- or part-time basis across our disciplines.

As well as stunning scenery and recreation, our local landscape and heritage are an important real-life laboratory for teaching and research. Forestry, renewable energy, sustainable agriculture, wildlife conservation, tourism and community projects are all important to the local landscape, culture and economy.

If you're considering environment or tourism programmes, you'll be pleased to hear we make the most of our spectacular rural location. Our minibus is available to take groups to some of our many fieldwork bases, study locations and partner organisations.

Our dedicated postgraduate hub in Maxwell House provides office, social and study space for all postgraduate students.

 **For information on how to apply,  
see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)**

## DUMFRIES CAMPUS

### Environment, Culture & Communication

MLitt: 12 months full-time; 24 months part-time

This programme is concerned with the relationships we hold with our 'wild' environments, and how these evolved. You will develop a knowledge of environmental debates from both cultural and scientific perspectives, and learn to communicate environmental issues using a variety of tools and strategies.

**E** [david.borthwick@glasgow.ac.uk](mailto:david.borthwick@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses. There is a choice of project work: you can choose to engage with a particular contemporary environmental issue or case study, OR to undertake a personal interaction with the features of a particular location, examining notions of place creatively. You will also undertake a dissertation, through which you can develop and demonstrate independent research skills, or a work placement where you will undertake research in a relevant organisation or company.

### Core courses

- Environmental communication\*
- Environmental politics and society\*
- Reading the environment: old and new world romanticisms
- Writing the environment: modern and contemporary nature writing.

\*You must take at least one of these courses.

### Optional courses may include:

- Climate change: impacts on ecology
- Environment, technology and society
- Environmental ethics and behavioural change
- Tourism, sustainability and climate change.

### Career prospects

Graduates are prepared to enter fields from environmental journalism and education, to public relations, advertising and consultancy roles. The interdisciplinary nature of the programme means your skills are also tailored towards emerging fields such as negotiating between scientific fact and cultural understanding of climate change, and the 'anticipatory history' that must inform landscape management in the future. Graduates have gone on to work for environmental NGOs and ecological arts organisations, and undertaken further study at PhD level.

**glasgow.ac.uk/  
schools/interdisciplinary/  
postgraduatecourses**

For entry requirements, see page 30. For fees and funding, see page 32.

**DUMFRIES CAMPUS****Environmental Change & Society****MSc:** 12 months full-time; 24 months part-time

This programme examines the social, political and cultural implications of environmental science and technology. You will learn to assess scientific and technological innovations as potential solutions to environmental issues. It trains professionals, decision-makers and students in the social implications of environmental issues, particularly in relation to technologies as potential solutions. It focuses on responsible innovation.

**E** [sean.johnston@glasgow.ac.uk](mailto:sean.johnston@glasgow.ac.uk)**Programme structure**

You will take four core and two optional courses, and complete a dissertation. Teaching is through a combination of methods including lectures, seminars, case studies and a programme of guest speakers.

**Core courses**

- Environment, technology and society
- Environmental communication
- Environmental ethics and behavioural change
- Environmental politics and society.

**Optional courses may include:**

- Advanced research methods
- Climate change: impacts on ecology
- Critical perspectives on knowledge and power
- Reading the environment: modern and contemporary nature writing
- Tourism, sustainability and climate change
- Writing the environment: old and new world romanticisms.

**Career prospects**

As a graduate you will be able to pursue careers in technology assessment, environmental management and policy making and analysis with government agencies, environmental consultancies, and private companies. The degree also aims to empower active citizens by providing the skills and understandings to underpin successful environmental campaigns. The degree is also an excellent first step towards a PhD in topics related to the wider implications of our environmental and societal choices.

**DUMFRIES CAMPUS****Tourism Development & Culture****MSc:** 24 months part-time

This new two-year joint degree focuses on contemporary theoretical and practical issues in tourism development, with a cultural focus, providing critical analytical skills. Mobility periods will give you the opportunity to study at the University of Glasgow and its world-class consortium partners.

**E** [donald.macleod@glasgow.ac.uk](mailto:donald.macleod@glasgow.ac.uk)**Programme structure**

The programme is structured around a series of mobility periods across two years where you will study at each of the three partner universities for one semester, taking a mix of core and optional courses. Teaching is delivered via a mix of lectures and seminars, with occasional guest lectures and opportunities for work placements. The final mobility period can be spent with either partner, depending on your chosen topic of dissertation, under the supervision of a team from at least two universities. The programme also includes an optional two-week summer school at Wageningen University (Netherlands).

**Semester 1:**

- September – December (Glasgow): Social science analysis of tourism.

**Semester 2:**

- February – June (Malta): Cultural tourism and heritage (Optional placement available).

**Summer (optional):**

- July (Wageningen).

**Semester 3:**

- September – January (Lund): Innovation and sustainability in the tourism industry.

**Semester 4:**

- February – July (Glasgow, Malta or Lund): dissertation.

**Career prospects**

As a graduate, you will be well equipped to find work in the tourism, cultural and heritage industry, both in the public and private sector. Potential employers include national and local government, agencies such as tourism departments, museums and heritage attractions, the travel and hotel industries, business consultancies and media organisations. There will also be opportunities for teaching at schools, colleges and universities for qualified teachers, as well as research.

**DUMFRIES CAMPUS****Tourism, Heritage & Development****MSc:** 12 months full-time; 24 months part-time

This programme builds your understanding of the tourism, heritage and development sectors. Drawing upon a multidisciplinary team, it uses academic approaches from the social sciences and the arts to investigate key themes. These include motivation, impacts, sustainable development, cultural and natural heritage, interpretation and management within this field.

**E** [donald.macleod@glasgow.ac.uk](mailto:donald.macleod@glasgow.ac.uk)**Programme structure**

You will complete three core and three optional courses, followed by a dissertation (which may include a work placement). You will be taught through a combination of lectures, seminars, tutorials, fieldwork and project work. Some of the courses will also include study trips.

**Core courses**

- Heritage, interpretation and development
- Heritage, management and context
- Tourism and regional development.

**Optional courses may include:**

- Climate change: impacts on ecology
- Environment, technology and society
- Environmental communication
- Environmental ethics and behavioural change
- Environmental politics and society
- Reading the environment: old and new world romanticisms
- Tourism marketing
- Tourism, sustainability and climate change
- Writing the environment: modern and contemporary nature writing.

**Career prospects**

There are a number of interesting roles within tourism and heritage bodies in the public and private sectors such as working for tour companies, heritage attractions, museums, and hotel groups. You could also work as a consultant in business, as part of a local government team and on planning bodies. In addition there are jobs available in education, particularly at college and university level. Your degree may enable you to consider studying for a research degree to consolidate your expertise.

**DUMFRIES CAMPUS****Tourism, Heritage & Sustainability****MSc:** 12 months full-time; 24 months part-time

This programme is designed to build your understanding of the tourism, heritage, and sustainability sectors. Drawing upon a multidisciplinary team to do this, it uses academic approaches from the social sciences and the arts to investigate key themes. These include motivation, impacts, sustainable development, cultural and natural heritage, interpretation and management within this field.

**E** [donald.macleod@glasgow.ac.uk](mailto:donald.macleod@glasgow.ac.uk)**Programme structure**

You will complete four core and two optional courses, followed by a dissertation (which may include a work placement). You will be taught through a combination of lectures, seminars, tutorials, fieldwork and project work. Some of the courses will also include study trips.

**Core courses**

- Heritage, interpretation and development
- Heritage, management and context
- Tourism and regional development
- Tourism, sustainability and climate change.

**Optional courses may include:**

- Climate change: impacts on ecology
- Environment, technology and society
- Environmental communication
- Environmental ethics and behavioural change
- Environmental politics and society
- Event management
- Reading the environment: old and new world romanticisms
- Tourism marketing
- Writing the environment: modern and contemporary nature writing.

**Career prospects**

There are a number of interesting roles within tourism and heritage bodies in the public and private sectors such as working for tour companies, heritage attractions, museums, and hotel groups. You could also work as a consultant in business, as part of a local government team and on planning bodies. In addition, there are jobs available in education, particularly at college and university level. Your degree may enable you to consider studying for a research degree.

## Research opportunities

We offer the following research study options:

PhD, MSc (Res).

Here are just some of the research topics available:

- carbon management, renewable energy and climate change
- environmental sustainability and land management
- tourism and heritage
- hospice, palliative and end-of-life care
- public health, wellbeing and ageing
- social policy and the third sector
- community studies
- ecocriticism
- history and philosophy of science and technology
- political philosophy
- science and technology studies
- Scottish history and Scottish studies
- science education
- tourism marketing
- modern Scottish literature
- folk belief and popular culture.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit:

[glasgow.ac.uk/schools/interdisciplinary/postgraduateresearch](http://glasgow.ac.uk/schools/interdisciplinary/postgraduateresearch)

‘Studying at Dumfries has been amazing. I did my undergraduate degree here and have returned to do this taught postgraduate programme because it sounded so relevant and progressive and enjoyable, but also because of my experience of the teaching practice and quality of courses here. The programme has been everything I hoped for – interdisciplinary, challenging, interesting and rewarding, and the teaching staff have all been interested, engaged and approachable.’

Katy, UK

Environment, Culture & Communication  
(MLitt) graduate

## FILM & TELEVISION

Glasgow is an excellent location in the UK to study film and television. Scotland's media capital is home to BBC Scotland, STV, and numerous independent production companies.

Our city is famed for its film and creative organisations and has two independent cinemas and a large annual film festival.

Our University is home to the international journal *Screen* and hosts the journal's annual conference, attracting leading international scholars in film and television studies. You will have the opportunity to participate in the conference and to engage with leading guest speakers from academia and the media industries throughout the year. On-campus facilities include a cinema, audiovisual resource centre, video-editing suite and design room.

Teaching methods combine theoretical, historical and practical approaches. If you study with us, you will be taught in small seminar groups and supported to develop critical and creative skills that prepare you for a wide variety of careers.



For information on how to apply,  
see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Film & Television Studies

MLitt: 12 months full-time; 24 months part-time

The MLitt in Film & Television Studies, taught in Scotland's media capital, offers the opportunity for the critical study of film and television. This well-established programme aims to provide an advanced understanding of the approaches and methodologies in Film & Television Studies and to equip you with core research skills for advanced study in this field.

[lizelle.bisschoff@glasgow.ac.uk](mailto:lizelle.bisschoff@glasgow.ac.uk)

### Programme structure

This programme will encourage advanced-level study of specific aspects of film and television, via the exploration of research strategies appropriate to the two mediums. The curriculum is designed to establish the full focus of film and television studies as a discipline and to suggest some of the ways in which its boundaries are being redrawn by new screen cultures and technologies.

The programme consists of three components:

#### Component 1:

##### Core course (60 credits)

- Semester 1: History of critical writing (30 credits)
- Semester 2: Research methods and preparation (30 credits).

#### Component 2:

##### Three additional courses (60 credits)

- Advanced topics in film studies (20 credits) – compulsory
- Advanced topics in television studies (20 credits) – compulsory.

The above two courses will run in semester 1 and semester 2 in alternate years

A third option course (20 credits, semester 1 and semester 2)

#### Component 3:

##### Dissertation (60 credits)

You will research and write your dissertation over the summer (May to September). It will be 15,000 words in length and on a topic chosen in consultation with your tutors and the programme convener.

### Career prospects

The programme provides an excellent foundation for an academic career in this field and we provide support and guidance on PhD applications and funding opportunities if you are considering this path.

Graduates go on to a range of careers in the media and creative industries, including film education, festival management and programming, and arts administration, as well as research roles in television, academia and the public sector.

## Film Curation

**MSc:** 12 months full-time;  
24 months part-time

The MSc in Film Curation enables you to explore film exhibition in a variety of theoretical, historical and practical contexts. It investigates the material qualities of audiovisual media and explores the history and contemporary practice of exhibition in cinemas, archives, galleries, festivals and online. You will work alongside industry-leading experts in film curation and archiving through guest lectures and placements.

**E** [rebecca.harrison@glasgow.ac.uk](mailto:rebecca.harrison@glasgow.ac.uk)

### Programme structure

You will take:

- two core courses
- one work placement or creative practice project
- two optional academic courses
- a dissertation or audiovisual essay.

### Core courses

#### Material of Film Curation (60 credits)

This course introduces you to the essential research, archival, moving image and publicity materials that you will work with as a film curator. You will begin thinking about the role of film curator and the various contexts in which curating occurs, as well as the role of archives in preserving, cataloguing and documenting screen media. By analysing film and media as 'objects', you will also address the importance of copyright and permissions in the acquisition and exhibition of moving images.

#### Practice of Film Curation (60 credits)

This course focuses on the administrative and creative tasks involved in engaging audiences with the moving image. You will explore various exhibition spaces and modes of presentation, and consider the practical issues facing event organisers, such as programming, finance/funding, marketing and audience feedback. You will gain hands-on experience through workshops, site visits and a project that asks you to plan, budget and create a trailer for your own mini-festival.

### Career prospects

This programme is designed to provide you with a range of skills that will allow them to develop as creative and cultural entrepreneurs; outreach officers in museums, archives or galleries; programmers or curators at film festivals; researchers for the film and television industries; creative practitioners; or prepare them for future academic research.



## Filmmaking & Media Arts

**MSc:** 12 months full-time

This is a practice-led programme aimed at graduates, aspiring filmmakers, visual artists and creative media practitioners.

**E** [holger.mohaupt@glasgow.ac.uk](mailto:holger.mohaupt@glasgow.ac.uk)

### Programme structure

In semester 1 you will work on a treatment and pitch for your digital film or media art project. In semester 2, you will direct a trailer for the project. The third semester is spent making your film and writing a practice-based dissertation.

The programme offers a combination of lectures, masterclasses, workshops by industry professionals, seminars, screenings and tutorials. These are designed to engage with current trends of production, ranging from creative documentaries and creative storytelling to experimental film and moving image installations in galleries. Our methods will encourage original thought and provide you with the creative tools, skills and knowledge needed in contemporary screen-based media. History and theory courses are offered to link creative industry practice with cutting-edge theory in the field in order to develop your critical approach to making films.

The programme is supported by professional practice sessions and research development by academic practitioners.

The programme has four components:

- Two core practical workshops: These are led by practitioners in our purpose-built Media Lab and are designed to provide hands-on support in the production of your film or media art projects.
- The core academic option, Experimental Art and Media: This course covers the history and theory of experimental art and filmmaking.
- You will also choose one course, selected from a range of academic options.
- A practice-based dissertation.

### Career prospects

The programme will equip you with the ability to develop a career as an independent filmmaker or a media artist, with opportunities to explore and develop freelance industry practices. You will acquire a portfolio of skills enabling you to work as an independent practitioner in today's creative digital film environment, including online media, visual art, and the community and education sector engaged with digital film and moving image. You will also be equipped to pursue a practice-based PhD.

### Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil and MRes.

Our research expertise covers the following areas:

- Television and film theories
- Histories and aesthetics
- Feminist theory: gender, genre, sexuality, violence
- Postcolonial theory and transnationalism
- World cinemas
- Amateur cinema
- Television and cinema audiences
- Sound and the moving image
- Film festivals.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/research/opportunities/subjects/filmtv](http://glasgow.ac.uk/research/opportunities/subjects/filmtv)

'The programme maintains a good balance between engaging with industry and focusing on individual research interests, setting you up well for pursuing either employment or further study. A particular draw for me was the opportunity to undertake a work placement, which will be invaluable when job-seeking next year.'

Ruth, UK  
Film Curation (MSc) student

# GEOGRAPHICAL & EARTH SCIENCES

Geographical & Earth Sciences brings together internationally leading research in physical and human geography, geology and geomatics.

In the 2014 Research Excellence Framework, our Human Geography Research Group was ranked 1st in the UK for world-leading and internationally excellent research, and 1st in the UK for published work. The earth systems research was rated 1st in Scotland for both its world-leading publications and research environment.

- We host many guest speakers and there are informal opportunities to meet people from industry at open events. Projects may be carried out in conjunction with industry.
- We have been teaching PGT programmes in Geomagnetic for over 50 years and have graduates in senior positions in the industry in many countries. Our programmes are accredited by both RICS and CICES.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

[glasgow.ac.uk/  
subjects/ges/postgraduate](http://glasgow.ac.uk/subjects/ges/postgraduate)

## Geoinformation Technology & Cartography

**MSc:** 12 months full-time; 24 – 48 months part-time  
**PgDip:** 9 months full-time; 21 – 44 months part-time  
**PgCert:** 3.5 months full-time; 9 – 32 months part-time

This Masters in Geoinformation Technology & Cartography focuses on understanding and managing the locational data required to use Geographic Information Systems (GIS) together with visualisation and map production in a GIS environment.

 [ges-enquiries@glasgow.ac.uk](mailto:ges-enquiries@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Geoinformation Technology & Cartography include lectures, seminars and tutorials and allow you the opportunity to take part in labs, project and team work, and attend a GIS conference in the UK.

### Core courses

- Applied GIS (including GISRUK conference)
- Cartographic design and production
- Fundamentals of geomatics
- Geospatial data infrastructure and land administration
- GIS
- Internet and mobile GIS
- Principles of land surveying
- Remote sensing
- Research and professional issues in Geomatics
- Topographic mapping.

### Career prospects

Career opportunities exist in both the private and public sectors and there is currently high demand for GIS skills. Positions include cartographer with map publishing company, government agency or private service agency; GIS specialist, ranging from support in large corporations (banking, insurance, retail), environmental consultancies, local authorities, utility companies; mapping specialist with software house and geoinformation data provider.

### Accreditation

The MSc in Geoinformation Technology & Cartography, if fully completed with the award of an MSc, is accredited by the Royal Institution of Chartered Surveyors (RICS).

For entry requirements, see page 30. For fees and funding, see page 32.

## Geomatics & Management

**MSc:** 12 months full-time

The Masters in Geomatics & Management is aimed at graduates in geomatics (surveying and mapping). It will enhance your career progression in the field of geomatics, and provide you with the necessary skill set to succeed in managerial positions. The combination of geomatics with management offered by this programme has been strongly endorsed by industry.

 [ges-enquiries@glasgow.ac.uk](mailto:ges-enquiries@glasgow.ac.uk)

### Programme structure

You will attend taught courses and undertake a summer research project, aimed at practical application and enhancing your ability to do independent work and present results in the most appropriate form.

### Core courses

- Financial information management
- Methods of management enquiry
- Management decision making
- Managing innovative change
- People in organisations
- Research and professional issues in geomatics.

### Optional courses may include (five chosen):

- Applied cartography
- Applied GIS (including GISRUK conference)
- Applied hydro survey
- Applied survey (including field course)
- Directed studies in geomatics
- Engineering survey
- Geodesy and GNSS
- Geospatial data infrastructure and land administration
- Hydrographic survey
- Internet and mobile GIS
- Remote sensing.

### Career prospects

This programme is primarily intended for those with some experience in the surveying, mapping or GIS industries who want to move on in the industry into management roles, with greater understanding of business practices. Opportunities exist in surveying companies, government agencies and in land management and geographic information management organisations.

## Geospatial & Mapping Sciences

**MSc:** 12 months full-time; 24 – 48 months part-time

**PgDip:** 9 months full-time; 21 – 44 months part-time

**PgCert:** 3.5 months full-time; 9 – 32 months part-time

This Masters in Geospatial & Mapping Sciences focuses on understanding the theory and practice of geospatial data collection, land and hydrographic surveying, data and information quality, applications of survey information, and research and development in the field of geomatics.

 [ges-enquiries@glasgow.ac.uk](mailto:ges-enquiries@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MSc in Geospatial & Mapping Sciences include lectures, seminars and tutorials and allow you the opportunity to take part in labs, fieldwork, project and team work.

### Core courses

- Applied survey (including field course)
- Engineering survey
- Fundamentals of geomatics
- Geodesy and GNSS
- GIS
- Hydrographic survey
- Principles and practice of land surveying
- Research and professional issues
- Topographic mapping.

### Optional courses (one chosen)

- Applied hydro survey
- Geospatial data infrastructure and LIS.

### Career prospects

Career opportunities include land surveyor, engineering surveyor, hydrographic surveyor, GIS specialist and environmental consulting. There is currently a very high demand for surveyors and several of the key employers visit us each year to recruit students. In addition to the offshore energy industry, land surveyors are in demand in many parts of the world to support mining operations and major civil engineering projects, and to provide surveying services for land registration.

Graduates of this programme have gone on to positions such as: Assistant Surveyor General at Dept of Surveys, Ministry of Lands and Housing, Malawi and Surveyor at Rudan Engineering Ltd.

## Human Geography: Spaces, Politics, Ecologies

MRes: 12 months full-time; 24 months part-time

This Masters in Human Geography: Spaces, Politics, Ecologies considers how geography has been used to actively engage with the world beyond the academy, focusing on social justice and social change, environment and development, and cultural and historical geographies.

 [ges-enquiries@glasgow.ac.uk](mailto:ges-enquiries@glasgow.ac.uk)

### Programme structure

Modes of delivery of the MRes in Human Geography: Spaces, Politics, Ecologies include lectures, seminars and tutorials and allow you the opportunity to take part in workshops, project and team work.

### Core courses

- Conceptualising human geography 1: spaces, politics, ecologies
- Conceptualising human geography 2: geographical engagements
- Researching human geographies: design, methods, ethics.

You will also take two courses in qualitative and quantitative methods in the social sciences and undertake an independent piece of research on a topic chosen by you.

### Career prospects

Career opportunities include positions in non-governmental organisations (e.g. Oxfam, Barnardo's, SEPA, Scottish Natural Heritage), teaching, and PhD study.

### Research opportunities

We offer the following research study options:

PhD, MSc (Res).

Our research expertise covers the following areas:

- Earth-life processes
- Earth observation and technology
- Exploring vital geographies
- Extra-terrestrial and mantle processes
- Knowing, creativity and experiment
- Shallow crustal processes
- Stressed environments and communities
- Subaltern globalisations
- Surface processes.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

Our collaboration with the Scottish Universities Environmental Research Centre (SUERC) gives us access to cutting-edge equipment and specialist expertise.

For more information, visit: [glasgow.ac.uk/schools/ges/researchandimpact/postgraduate](http://glasgow.ac.uk/schools/ges/researchandimpact/postgraduate)

## HEALTH & WELLBEING

Our aim is to improve population health and wellbeing and reduce inequalities in health.

The Research Institute of Health and Wellbeing spans the College of Medical, Veterinary & Life Sciences, and the College of Social Sciences.

The institute builds on existing strengths within the University of Glasgow and brings together experts from a range of disciplines across the University to pursue common themes:

- environment and health
- perceptions and experiences of health and wellbeing
- inequalities in health and wellbeing
- new technologies to enhance health and wellbeing
- trials of health service and community-based interventions, and using 'natural experiments' to assess the impact on health and wellbeing of social, environmental or policy changes
- capitalising on longitudinal studies and the use of routine NHS or other administrative data.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Global Health

MSc: 12 months full-time; 24 months part-time

This programme will develop your critical analysis of key issues within health and medicine, health policy and health planning from a social science perspective.

 [cindy.gray@glasgow.ac.uk](mailto:cindy.gray@glasgow.ac.uk)

### Programme structure

You will take three core and three optional courses, as well as complete a dissertation. Teaching will be via lectures, seminars and tutorials. There is also the possibility to take part in project and team work in the UK.

### Core courses may include:

- Health and culture
- Health in its social context
- Methods of social research.

### Optional courses may include:

- Advanced qualitative methods
- Cultural, social and biological determinants of mental health
- Developing and evaluating complex interventions
- Equality and human rights
- Globalisation and public health
- History of medicine from 1850 – 2000
- Health economics
- Health technology assessment: policy and principles
- Improving access to mental healthcare in the global context
- Mental health and disability: international law and policy
- Mental health promotion across the life-span
- Populations to individuals: statistics, epidemiology and critical appraisal
- Primary care mental health
- Psychosocial approaches to public health
- Qualitative methods
- Social science statistics 1
- Social science statistics 2
- Studies in the history of medicine before 1850
- The disabling society
- Understanding public health.

### Career prospects

Career opportunities include positions as healthcare professionals, healthcare policy advisers and in public healthcare systems, and the voluntary and third sector.

## Global Mental Health

**MSc:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time; 18 months part-time  
**PgCert:** 9 months full-time; 18 months part-time

The Global Mental Health programmes are designed to produce graduates who can take charge of mental health service provision at a global level. The MSc in Global Mental Health is unique to Scotland.

**✉** [mvls-gms@glasgow.ac.uk](mailto:mvls-gms@glasgow.ac.uk)

### Programme structure

The core teaching is based around lectures. There is a strong emphasis on discussion and debate with your academic staff and fellow students, focusing on relevant research literature and policy documents. The Global Mental Health MSc benefits from expert international experts who contribute to the course via a blended learning approach. Peer support learning is promoted in this programme.

### Core courses

- Introduction to mental health and disability
- The global burden of mental health difficulties
- Cultural, social and biological determinants of mental health
- Research methods (qualitative, quantitative and health economics)
- Mental health promotion across the life-span
- Improving access to mental health care in the global context (online)
- Mental health and disability: international law and policy
- Dissertation.

### Career prospects

Graduates of the MSc Global Mental Health programme establish careers in national mental health policy and planning, epidemiological and mental health services research, as well as advisory and advocacy roles in governments, international agencies and non-governmental organisations.

## Global Mental Health (online)

### MSc Online Distance Learning:

24/36 months part-time

### PgDip Online Distance Learning:

24 months part-time

### PgCert Online Distance Learning:

12 months part-time

The Global Mental Health academic programmes are designed to produce graduates who can take charge of mental health service provision at a global level. These programmes are unique to Scotland. These online programmes are intended for people who are unable to come to Glasgow to complete on-campus delivery of the programmes.

**✉** [mvls-gmsodl@glasgow.ac.uk](mailto:mvls-gmsodl@glasgow.ac.uk)

### Programme structure

The core teaching is based around lectures. There is a strong emphasis on discussion and debate with your fellow students, focusing on relevant research literature and policy documents.

#### Year 1

##### (exit with PgCert Global Mental Health)

- Introduction to mental health and disability
- The global burden of mental health difficulties
- Cultural, social and biological determinants of mental health
- Improving access to mental healthcare in the global context.

#### Year 2

##### (exit with PgDip Global Mental Health)

- Research methods (qualitative, quantitative and health economics)
- Mental health promotion across the life-span
- Mental health and disability: international law and policy.

#### Year 3

##### (exit with MSc Global Mental Health)

- Dissertation.

Please note: the order of the courses above will vary depending on your start date.

### Career prospects

Graduates of the Global Mental Health academic programmes establish careers in national mental health policy and planning, epidemiological and mental health services research, as well as advisory and advocacy roles in governments, international agencies and non-governmental organisations.

## Health Technology Assessment (online)

### MSc Online Distance Learning:

12 months full-time; 24/36 months part-time

### PgDip Online Distance Learning:

12 months full-time; 24/36 months part-time

### PgCert Online Distance Learning:

12 months full-time; 24/36 months part-time

Health Technology Assessment (HTA) is the assessment of relevant evidence and knowledge on the effects and consequences of healthcare technologies. It contributes to priorities and decisions in relation to prevention, diagnosis, treatment and rehabilitation. This Masters in HTA focuses on the production, critical appraisal and use of scientifically rigorous research evidence, applied to a range of health-related areas.

**✉** [hta@glasgow.ac.uk](mailto:hta@glasgow.ac.uk)

### Programme structure

#### Core courses

- HTA: policy and principles
- Statistical methods for HTA and evidence based medicine
- Health economics for HTA.

#### Optional courses may include:

- Foundations of decision analytic modelling
- Evidence synthesis
- Outcome measurement and valuation for HTA
- Analysis of linked health data
- HTA in a global context
- Survival analysis for HTA
- Qualitative research methods for HTA.

#### Optional course

##### (delivered face-to-face in Glasgow)

- Decision analytic modelling methods for economic evaluation.

### Career prospects

HTA has growing importance internationally for informing healthcare decision-making and there is increasing demand for employees with HTA-relevant skills. Outside of the field of HTA, you would be well equipped with qualitative and quantitative research skills for jobs in academia, the pharmaceutical industry, and government information services/statistical agencies.

## One Health (online)

**MSc Online Distance Learning:**  
36 months part-time

**PgDip Online Distance Learning:**  
24 months part-time

**PgCert Online Distance Learning:**  
12 months part-time

The One Health concept recognises the interconnectedness of human, animal and ecosystem health. A One Health approach involves applying a coordinated, collaborative, multidisciplinary and cross-sectoral approach to address potential or existing risks that originate at the animal-human-ecosystems interface.

**✉** [mvls-onehealth@glasgow.ac.uk](mailto:mvls-onehealth@glasgow.ac.uk)

### Programme structure

This programme is modular in structure, offering a flexible student-centred approach to the choice of courses studied and number of credits obtained.

#### Core courses

- Introduction to One Health
- Zoonoses and infectious disease
- Introduction to epidemiology
- Research methods (MSc students only)
- Dissertation (MSc students only).

#### Optional courses

- Global veterinary medicine
- Globalisation of public health
- Veterinary epidemiology: methods in surveillance and field investigation
- Veterinary public health and service delivery
- Infectious disease control
- Wildlife and livestock management
- Ecological principles
- Health economics
- Health promotion: principles and practice
- Health technology assessment in a global context.

#### Career prospects

Graduates may establish careers for frontline healthcare providers, for example as developers and implementers of prevention and treatment programmes. Graduates may be employed by international health organisations, local agencies, government agencies or non-governmental organisations, or establish careers in the academic sector.

## Primary Care (online)

**MSc Online Distance Learning:**  
24 – 60 months part-time or 12 months full-time

**PgDip Online Distance Learning:**  
24 – 36 months part-time or 12 months full-time

**PgCert Online Distance Learning:**  
24 months part-time or 12 months full-time

Healthcare across the world faces major challenges from the increasing demands of ageing populations and the rise in non-communicable diseases. Strong and effective primary care (also known as family medicine or community medicine) is a major part of the solution. This MSc in Primary Care will equip you with the knowledge and skills required to make a difference to primary healthcare in the 21st century.

**✉ primarycare@glasgow.ac.uk**

### Programme structure

This online MSc programme is modular in structure, with all teaching and interactions delivered online through our virtual learning environment (Moodle). During each course from week to week you will interact with your teachers and fellow students using online discussion boards. Your teachers will direct and observe the discussion, and respond to student questions about the course content. A variety of teaching approaches will be used including lectures, group-based activities, presentations and discussions.

#### Core courses

- International primary care principles and systems
- Epidemiology, evidence and statistics for primary care
- Research methods.

#### Optional courses may include:

- Understanding evidence for the real world: Critical appraisal for healthcare
- Cardiovascular disease management in primary care
- Management of long-term conditions
- Options from another health and wellbeing programme.

You will also complete a research project.

#### Career prospects

Graduates will have the capacity to take a lead role in primary care and family medicine development, whether in Scotland, the UK or internationally. Post-award opportunities include further study, leadership roles in primary care teams, secondment to positions within government, teaching positions, and sitting on editorial boards of academic journals.

## Public Health

**MPH:** 12 months full-time; 24, 36 or 48 months part-time

**PgDip:** 9 months full-time; 21 or 33 months part-time

**PgCert:** 8 months full-time; 10 months part-time

Public health aims to promote health, prevent disease, reduce inequalities in health, and prolong life. The population perspective of public health ensures that its practitioners are well placed to improve health wherever they are. Our Master of Public Health degree reflects the multidisciplinary nature of public health through its flexible and innovative curriculum. Our programme enjoys strong links with the NHS, its public health practitioners and other regional and national bodies, ensuring student access to some of the country's leading authorities in public health.

**✉ mvls-publichealth@glasgow.ac.uk**

### Programme structure

#### Core courses

- Principles of public health
- Introduction to statistical methods
- Introduction to epidemiology.

#### Optional courses (three courses chosen)

- Communicable diseases
- Environmental health
- Further epidemiology and statistics
- Globalisation and public health
- Health economics
- Health promotion: principles and practice
- Managing healthcare organisations
- Oral health (this course will be offered in 2019 – 2020 and every two years thereafter)
- Psychosocial approaches to public health
- Qualitative research methods
- Research methods.

If you are studying for the MPH, you will also undertake a research project of 15,000 – 20,000 words and your project studies will incorporate a series of research methods lectures.

#### Career prospects

Career opportunities include lecturer, health development manager, public health adviser, health programme specialist, epidemiologist, medical practitioner positions in public health, clinical university teacher, and research positions.

## Public Health (online)

**MPH Online Distance Learning:**  
36 months part-time

**PgDip Online Distance Learning:**  
24 months part-time

**PgCert Online Distance Learning:**  
12 months part-time

Public health aims to promote health, prevent disease, reduce inequalities in health, and prolong life. The population perspective of public health ensures that its practitioners are well placed to improve health wherever they are. Our Master of Public Health degree has been offered by the University for 35 years and this new online Master of Public Health launched in 2016.

**✉ mvls-publichealthol@glasgow.ac.uk**

### Programme structure

The programme is delivered via our Virtual Learning Environment and you will take part in online learning activities, including asynchronous lectures and class discussion, interactive group work, research appraisal, and a range of assessment mechanisms.

#### Core courses

- Principles of public health
- Introduction to statistical methods
- Introduction to epidemiology.

#### Optional courses (three courses chosen)

- Communicable diseases
- Further epidemiology and statistics
- Globalisation and public health
- Health economics
- Health promotion: principles and practice
- Managing healthcare organisations
- Psychosocial approaches to public health
- Qualitative research methods
- Research methods.

#### Career prospects

The Masters will evidence the start of postgraduate study in public health and a commitment to the field. Career opportunities for those holding the MPH degree include lecturer, health development manager, public health adviser, health programme specialist, epidemiologist, medical practitioner positions in public health, clinical university teacher and research positions.

## Research opportunities

Our research themes are:

- Determinants of health and health inequalities
- Data science – Using routine administrative data and record linkage for research
- Solution-focused research: complex intervention studies and randomised trials.

Our interdisciplinary research spans across the following areas:

- General practice and primary care
- Health economics and health technology assessment
- MRC/CSO Social and Public Health Sciences Unit
- Mental health and wellbeing
- Public health
- Robertson Centre for Biostatistics
- Social scientists in health
- Scottish Learning Disabilities Observatory.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/researchinstitutes/healthwellbeing](http://glasgow.ac.uk/researchinstitutes/healthwellbeing)

# HISTORY

History at Glasgow offers an outstanding learning experience in a great city, in the company of our thirty-strong cohort of historians.

The University of Glasgow has taught History since 1897. In the most recent Research Excellence Framework assessment (REF 2014), we were ranked joint 4th in the UK for research excellence and impact.

Our programmes include theory, cover all periods from medieval to late modern, and emphasise Scotland, Britain, Europe and America. Our geographical coverage is steadily expanding.

We place the teaching and learning of students at the heart of our mission. Our postgraduate teaching is research-led, so that you benefit from engaging with topics at the cutting-edge, and discussion-led, in small classes of usually no more than 12 students. Assessment is overwhelmingly based on coursework, not examination.

The curriculum consists of a research training core course (RRSH); specialised courses on historical and theoretical themes; courses developing your technical skills and abilities, e.g. languages and palaeography; and a dissertation based on original primary source research. You work out your dissertation topic, and are supported in your research and writing up, by an assigned supervisor.

History staff also contribute to the Masters programmes in American Studies, War Studies and Global Security, and you can take taught options from these and other programmes, enhancing student choice. Our learning and research environment is dynamic and supportive because of the critical mass of staff and postgraduate students, grouped in clusters and centres which sponsor seminar programmes and other research-led initiatives.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## History

**MLitt/MSc:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time; 18 months part-time

The Masters in History provides you with an outstanding learning experience in the company of Glasgow's thirty-strong cohort of historians, and the opportunity to conceive, design and execute a research dissertation. The programme combines training in historical theory, skills and methods with a wide range of specialist taught options which cover all periods from medieval to late modern.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

You will take one core and five optional courses, taught over two semesters. From April onwards you will concentrate on your dissertation.

#### Core course: Research, Resources and Skills for Historians (RRSH)

This team-taught course includes both compulsory and optional classes. This enables it to cater for all members of our diverse Masters History cohort. It covers historical skills and methodologies and locating dissertation sources. It uses innovative and traditional methods of assessment: a development log, a poster presentation and a dissertation proposal.

#### Optional courses may include:

You can choose to take courses in languages, manuscript studies and palaeography, to develop your technical skills. Subject to approval, you can take courses in programmes beyond History. Within History you can move across our fields:

- Gender history
- Scottish history
- Medieval history
- Early modern history
- Modern history
- History of medicine.

#### Dissertation

The final part of the programme is devoted to researching and writing up your dissertation, with the support of an assigned supervisor.

#### Career prospects

As well as continuing to PhD, you can transfer the Arts research skills and methods you will learn on this programme to positions in the modern public and private sectors, such as heritage, policy and projects, the media and teaching.

## Early Modern History

**MLitt:** 12 months full-time; 24 months part-time

This programme is for historians seeking to specialise in the study of the early modern period. Our early modern interests extend to England, Scotland, France, Scandinavia, the Low Countries, Italy and North America, and range from the late 15th to late 18th centuries.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

You will take one core and five optional courses, taught over two semesters. From April onwards you will concentrate on your dissertation.

#### Core course: Research, Resources and Skills for Historians (RRSH)

This team-taught course includes both compulsory and optional classes. This has been developed to cater for all members of our diverse Masters History cohort. It covers historical skills and methodologies and locating dissertation sources. It uses innovative and traditional methods of assessment: a development log, a poster presentation and a dissertation proposal.

#### Optional courses may include:

You can choose to take courses in languages, manuscript studies and palaeography, to develop your technical skills. Within History you can select courses in:

- Women and power in Renaissance Italy
- Scottish Reformation
- Print, public opinion and Enlightenment in 18th-century Europe
- History of medicine 1: studies in the history of medicine before 1850
- Tom Paine as an Enlightenment Revolutionary
- Popular culture and the Reformation in Early Modern Scotland.

#### Dissertation

The final part of the programme is devoted to researching and writing up your dissertation, with the support of an assigned supervisor.

#### Career prospects

As well as continuing to PhD, you can transfer the Arts research skills and methods you will learn on this programme to positions in the modern public and private sectors, such as heritage, policy and projects, the media and teaching.

## Gender History

**MSc:** 12 months full-time; 24 months part-time

This Masters in Gender History provides the opportunity to develop and deepen analysis of the workings of gender in the past. In conjunction with the University of Glasgow's Centre for Gender History, which brings together one of the largest concentrations of gender historians in the UK, the programme encourages cross-chronological and cross-cultural comparisons as well as allowing in-depth research into particular questions.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

Learning and teaching approaches are varied. Technical skills are taught through lectures and workshops associated with the core course, while the conceptual foundations for gender history are taught through the weekly seminars.

Independent and self-reflective critical work is fostered through written assignments and seminar presentations, and culminates in the dissertation.

You will benefit from membership of the Hufton Reading Group (organised by postgraduates for postgraduates with an interest in Gender History) and from attendance at the Centre for Gender History's research seminar, as well as the Centre's annual Public Engagement Workshop.

#### Core courses

- Gender, politics and power
- Gender, culture and text
- Research, resources and skills for historians.

#### Optional courses

- All options on offer within History MLitt/MSc programmes in Arts and Social Sciences.

#### Career prospects

As well as continuing to study for a PhD, you can transfer the arts research skills and methods you learn on this programme to positions in the modern public and private sectors, such as heritage, policy and projects, the media and teaching.

## History (with an emphasis on the History of Medicine)

MLitt/MSc: 12 months full-time; 24 months part-time

This programme provides you with thorough research training, an outstanding learning experience, and a wide set of transferable skills in the conception, design and execution of a research project.

[e malcolm.nicolson@glasgow.ac.uk](mailto:malcolm.nicolson@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses and submit a dissertation on a topic related to the history of medicine.

#### Core courses

- Approaches to history
- History of medicine 1: studies in the history of medicine before 1850
- History of medicine 2: studies in the history of medicine from 1850 to 2000
- Research resources and skills for historians.

#### Optional courses

MSc students will choose two courses from the following:

- Introduction to social theory for researchers
- Qualitative methods
- Quantitative methods.

MLitt students can also choose from a wide selection of courses from subject areas within the College of Arts and College of Social Sciences.

#### Career prospects

Apart from continuing to study for a PhD, you can transfer the arts research skills and methods you learn on this programme to positions in the modern public and private sectors, such as heritage, policy and projects, journalism and teaching.

## Medieval History

MLitt: 12 months full-time; 24 months part-time

We have one of the greatest concentrations of world-leading medievalists in the UK, covering the entire span of the Middle Ages and a wide range of regions from Ireland to Byzantium.

[e humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

You will take one core and five optional courses. From April onwards you will concentrate on your dissertation.

#### Core course: Research, Resources and Skills for Historians (RRSH)

This team-taught course caters for all members of our diverse Masters History cohort. It covers historical skills and methodologies, locating dissertation sources, and proceeding either to PhD or relevant employment. It uses innovative and traditional methods of assessment: a development log, a poster presentation and a dissertation proposal.

#### Optional courses may include:

- Introduction to Medieval manuscript studies
- Medieval palaeography
- Barbarians in the Mediterranean
- Heretics and inquisitors
- The Normans
- Medieval deep structures of Russia and Eastern Europe
- Crusading warfare in the Eastern Mediterranean
- Chivalry and warfare in late Medieval Europe, c. 1300 – c. 1500

#### Dissertation

The final part of the programme is devoted to researching and writing up your dissertation, with the support of an assigned supervisor.

#### Career prospects

As well as continuing to study a PhD, you can transfer the Arts research skills and methods you learn on this programme to positions in the public and private sectors, such as heritage, policy and projects, media and teaching.

## Modern History

MLitt: 12 months full-time; 24 months part-time

Modern History at Glasgow brings together social and political historians, active in research on topics from the French Revolution to the War on Terror in Afghanistan.

[e humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

You will take one core and five optional courses. From April onwards you will concentrate on your dissertation.

#### Core course: Research, Resources and Skills for Historians (RRSH)

This team-taught course caters for all members of our diverse Masters History cohort. It covers historical skills and methodologies, locating dissertation sources, and proceeding either to PhD or relevant employment. It uses innovative and traditional methods of assessment: a development log, a poster presentation and a dissertation proposal.

#### Optional courses may include:

- The Wars of Decolonisation and the making of the global Cold War
- American material culture
- Public humanities: citizenship, community and cultural authority in the contemporary world
- Society and culture in interwar America
- History of medicine, 1850 – 2000
- American way of war: From the Revolution to the War on Terror
- The century of the refugee
- Issues, ideologies and institutions of Modern Scotland
- Secularisation and society: the decline of religion in the west since 1800
- The American counterculture, 1945 – 75
- Gender, politics and power
- Christianity and the sexual revolution.

#### Dissertation

The final part of the programme is devoted to researching and writing up your dissertation, with the support of an assigned supervisor.

#### Career prospects

As well as continuing to study for a PhD, you can transfer the Arts research skills and methods you learn on this programme to positions in the public and private sectors, such as heritage, policy and projects, media and teaching.

## Scottish History

MLitt: 12 months full-time; 24 months part-time

The programme is taught by a team of academics in the social, political and cultural history of Scotland from the medieval period through to the 20th century. It has a particular geographical emphasis on Gaelic Scotland, Scotland's place in the British Isles and Europe, and on urban Scotland.

[e humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

You will take one core and five optional courses, taught over two semesters. From April onwards you will concentrate on your dissertation. Part-time students study over two years, taking the bulk of courses in year 1, and researching and writing the dissertation in year 2.

#### Core course: Research, Resources and Skills for Historians (RRSH)

This team-taught course caters for all members of our diverse Masters History cohort. It covers historical skills and methodologies, locating dissertation sources, and proceeding either to PhD or relevant employment. It uses innovative and traditional methods of assessment: a development log, a poster presentation and a dissertation proposal.

#### Optional courses may include:

- Scottish castles and palaces in a European context, c.1100 – 1600
- Specialist courses in Medieval Scottish studies
- Scottish Reformation
- Popular culture and the Reformation in early modern Scotland
- Plantation and civility in the Isles and Ulster, c.1541 – 1639
- Issues, ideologies and institutions of modern Scotland
- Culture, politics and society in the Highland clearances
- Scottish radicalism.

If you are attracted by an interdisciplinary perspective, you may wish to consider complementary courses in cognate subjects, e.g. Early Christian monuments of Scotland; Celtic place-names of Scotland.

#### Dissertation

The final part of the programme is devoted to researching and writing up your dissertation, with the support of an assigned supervisor.

#### Career prospects

As well as continuing to study for a PhD, you can transfer the Arts research skills and methods you learn on this programme to positions in the public and private sectors, such as heritage, policy and projects, media and teaching.

## Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil and MRes.

Our research expertise covers the following areas:

- Medieval Europe
- Scotland, Ireland and the British Isles
- Early modern culture, beliefs and ideas
- American history and culture
- History of medicine
- Social and gender history
- War studies
- Late modern American, European, British and Scottish history.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/research/opportunities/subjects/history](http://glasgow.ac.uk/research/opportunities/subjects/history)

‘I found the Masters at Glasgow provided a broad and flexible range of courses, balanced with excellent specialist teaching staff.’

Craig, UK  
History (MLitt) graduate

## HISTORY OF ART

The University of Glasgow is the UK's leading centre for the study of History of Art.

Glasgow offers a highly stimulating study environment. The Hunterian Art Gallery and Museum is one of the leading university collections in the UK, and students can also benefit from our major AHRC research projects on Whistler and Charles Rennie Mackintosh, EU collaborative research projects on online performing arts collections and contemporary museology, and our partnerships with the National Inventory of Continental and European Paintings and Public Catalogue Foundation. Our collaborative agreement with Glasgow Life provides unique research and placement opportunities at the city's outstanding collections, while the History of Art resource centre has over 5,000 books, selected periodical holdings and 15,000 exhibition and gallery catalogues.



For information on how to apply,  
see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Art History: Art: Politics: Transgression: 20th Century Avant-Gardes

MLitt: 12 months full-time; 24 months part-time

This Masters programme offers a dynamic introduction to the key theoretical debates and issues surrounding the notion of the avant-garde in the 20th and 21st centuries. Glasgow is a major centre of contemporary art and you can opt for a work placement in one of its galleries.

 [david.hopkins@glasgow.ac.uk](mailto:david.hopkins@glasgow.ac.uk)

### Programme structure

Spanning a period from the early 20th century to 2017, the programme consists of dealing with the historical avant-garde, the neo-avant-garde and the post-avant-garde.

Teaching is mainly via lectures and seminars, with an emphasis on an informal ethos. There is a central core programme on theories of the avant-garde, augmented by a series of optional modules (on topics such as Marcel Duchamp: Body Art or Dada in Germany). The main piece of assessed work is a dissertation, handed in towards the end of the programme. A regular study trip takes place, either to Berlin or Dublin.

You will take five core courses and one optional course. This is followed by a period of self-study towards a dissertation 15,000 words in length and will be on a topic chosen in consultation with the tutors and the programme convener.

### Core courses

- Theories of the avant-garde: avant-garde; neo-avant-garde; post-avant-garde
- Option 1: Readings in Duchamp
- Option 2: Dada in Germany
- Option 3: Art and embodiment.

Further options are available in the School of Culture & Creative Arts, e.g. Modernities (English).

### Career prospects

Career opportunities include work in art galleries and museums, educational work in art institutions and lecturing in universities and art colleges. Contemporary art in particular is seeing a boom in gallery-related employment.

[glasgow.ac.uk/  
subjects/historyofart/postgraduate](http://glasgow.ac.uk/subjects/historyofart/postgraduate)

For entry requirements, see page 30. For fees and funding, see page 32.

## Art History: Collecting & Provenance in an International Context

**MSc:** 12 months full-time;  
24 months part-time



This Masters programme offers an interdisciplinary approach to studying the history of collecting and collections from an international perspective. In particular, it focuses on the trajectory of artefacts through time and space and the legacy of their social ties. The programme moves the debate beyond the usual focus on the Western Tradition.

**E** [christa.roodt@glasgow.ac.uk](mailto:christa.roodt@glasgow.ac.uk)

### Programme structure

The programme structure comprises four core courses and a dissertation. In addition you can choose two optional courses, either from the ones provided within the programme or from available courses across the College of Arts.

The dissertation will be on a topic chosen in consultation with the tutors and programme conveners. You will also have an opportunity to take part in a field trip.

The learning and teaching approaches covered in the programme include lectures (built around case studies), seminars and discussions (supported by relevant published sources), handling sessions and supervision.

### Core courses

- Cultures of collecting
- Object biography
- Provenance
- Global illicit trafficking.

### Optional courses may include:

- Restitution
- Repatriation, recovery, return
- Antiquities trafficking
- Art crime.

### Career prospects

This Masters programme is intended to provide you with a strong foundation from which to embark upon a career in the visual arts and the art market.

Graduates have gone on to hold positions in museums and galleries (both public and private) in Scotland and elsewhere in the UK and have, more broadly, entered the commercial, cultural and heritage sectors in a number of roles. The programme also provides an excellent platform for you to move on to PhD studies and an academic career.

## Art History: Dress & Textile Histories

**MLitt:** 12 months full-time;  
24 months part-time



This programme provides you with the skills to research and interpret the history of dress and textiles. Drawing on the knowledge of interdisciplinary academic and curatorial experts, the programme combines taught and research components based on a combination of theoretical and object-based approaches.

**E** [sally.tuckett@glasgow.ac.uk](mailto:sally.tuckett@glasgow.ac.uk)

### Programme structure

The taught component consists of three core courses and three optional courses. This is followed by a period of supervised research and writing of the dissertation.

Teaching is delivered by a combination of in-house specialists and visiting scholars and experts. The lectures are enhanced by seminar discussions, some based in museums and galleries, giving you the opportunity to present your ideas and discuss them with classmates in a supportive yet challenging environment. A number of study trips to important local and national collections are also built into the programme.

### Core courses

- Framing dress and textile histories
- Research methods in practice
- Museums and the making of dress and textile histories.

### Optional courses may include:

- The birth of modern fashion? Textiles and dress, 1680 – 1815
- Understanding textiles
- Renaissance dress and textiles: materials and meanings
- Victorian visions: dress and textiles c.1837 – 1901
- Material cultures
- Work placement
- Independent study
- 2D digitisation (theory and practice)
- A course from elsewhere in the College of Arts, subject to the approval of the programme convener.

### Career prospects

The attributes you gain will be attractive to employers from museums, the heritage sector, art dealers and auction houses, and costume departments for theatre, film and television production. The programme also offers an excellent foundation upon which to progress to PhD studies and an academic career.

## Art History: Inventing Modern Art, 1768 – 1918

**MLitt:** 12 months full-time;  
24 months part-time



This programme enables you to understand how painting, design and architecture took new forms and meanings in an age of radical social, scientific and technological change. Working with leading experts, you will learn to interpret these from theoretical as well as object-based approaches.

**E** [clare.willsdon@glasgow.ac.uk](mailto:clare.willsdon@glasgow.ac.uk)

### Programme structure

The course on research methods in practice is taken by all students in semester 1, and provides an introduction to the key techniques and principles of advanced art-historical study and research. This provides a foundation for the programme's other components, which consist of:

- a compulsory dissertation 15,000 – 20,000 words
- five individual option courses, each worth 20 credits. These enable you to study particular themes or artistic movements in depth, and, if desired, also to obtain work experience.

### Optional courses may include:

- Whistler, Impressionism and European Avant-Gardes
- Impressionism: innovation and invention 1874 – 1926
- The artistic house
- Reading international art nouveau
- Landscape art and the geography of 18th century Britain
- The birth of modern fashion? Textiles and dress, 1680 – 1815
- Historicism: German art, architecture and design 1850 – 1918
- Work placement
- Independent study
- Student exhibition
- Semester abroad (École du Louvre, Paris)
- Research forum.

### Career prospects

The programme provides a strong foundation for work in the museum, heritage and education sectors, as well as in media, publishing and arts administration. Its distinctive object-based study sessions and field trips introduce you to key professionals, while the placement option provides 'live' work experience – an essential first step in much arts employment.

## Art History: Modern Material Artefacts

**MSc:** 12 months full-time;  
24 months part-time.

This programme is subject to approval.



This new Masters programme is being developed with the aim of offering novel perspectives on the interpretation, investigation and conservation of synthetic material artefacts in museums and archives. Object based studies will focus on everyday as well as designer commercial products from decorative arts, fashion, social history and similar collections. You will make connections between the history and science of manufactured plastics, fibres, colourants and coatings since the 1850s for thought-provoking research approaches to artefact significance, degradation and ethical preservation.

**E** [anita.quye@glasgow.ac.uk](mailto:anita.quye@glasgow.ac.uk)

### Programme structure

This MSc is aimed at curators, conservators, collection managers and scientists already working in the heritage sector who want to develop their knowledge and understanding of the composition, history and behaviour of modern materials in museums and archives. You will develop your understanding of the function and properties of these materials as designer and every-day artefacts through object examination and technical analysis contextualised by historical scientific, manufacturing and design literature and material references. Theoretical and practical ethical decision-making for preservation will also be included.

Core courses will include material properties such as composition, manufacture, form and function relationships, effects of ageing and preservation ethics, as well as a research methodologies course. Independent study or research masterclasses may also be offered for you to reflect upon and build your disciplinary interests and strengths.

A dissertation will follow, on a topic chosen in consultation with tutors and approved by the programme convener. A work placement may be an alternative to a dissertation.

### Career prospects

There is a recognised and ever-increasing need for qualified heritage professionals to understand historical modern materials. This programme will enable you to specialise in your practice or enhance your career prospects. It will also prepare you for further education to pursue a career in curation, conservation, heritage science or academic research, working in or with museums, archives and other cultural organisations.

## Art History: Technical Art History, Making & Meaning

MLitt: 12 months full-time;  
24 months part-time

Through object-based, interdisciplinary research, this Masters programme focuses on the act of making and everything that entails. We study studio practices from a variety of disciplines, their materials and techniques, and also intentions and concept. Researching this all-inclusive story of an artefact is known as technical art history.

[christina.young@glasgow.ac.uk](mailto:christina.young@glasgow.ac.uk)

### Programme structure

This programme develops your skills in object-based research, as well as examining the authenticity and provenance of artworks. You will study the methods and materials, change and the conservation of these works. You will acquire the skills to understand how science and conservation supports the interpretation and understanding of artworks. This rapidly growing field involves (technical) art historians, scientists and conservators, while also reaching out to other disciplines including economic and social history, anthropology and philosophy.

### Core courses

- Research methods in practice
- Art in the making: historical techniques
- Art in the making: modern and avant-garde techniques
- The authentic art work
- Testimonies on painters' practice: documentary and visual sources.

### Optional courses

- Work placement
- Independent study.

### Career prospects

Career opportunities include curatorial positions in museums and galleries, and working with collections within cultural heritage organisations, or in the commercial environment of auction houses performing object-based research including technical investigation. The programme will also prepare you for a further postgraduate education in conservation or academic research.



## Art History: The Renaissance in Northern Europe & Italy

MLitt: 12 months full-time; 24 months part-time

This programme explores the richness and complexity of artistic invention from the 13th to the 17th centuries. You will have the opportunity for deep engagement with art-making both in Italy and Northern Europe and to challenge orthodoxies about the influence of one upon the other.

[debra.strickland@glasgow.ac.uk](mailto:debra.strickland@glasgow.ac.uk)

### Programme structure

The programme is comprised of a core course designed to give you an overview of methods and of the study of Renaissance visual culture, as well as seminar opportunities to engage directly with original works of art; and optional courses, enabling you to create your own Masters programme. The programme has unique strengths in Scottish Renaissance art and architecture with opportunities for hands-on study of paintings, objects and buildings.

It also allows you to work in an interdisciplinary capacity, selecting courses from across the College of Arts, according to personal interests.

Core teaching and research training are delivered during the first semester. Optional courses may be taken during the first and second semesters, followed by dissertation research. The dissertation provides an opportunity for you to identify an area of interest and to create a research project that allows in-depth critical exploration of it.

### Core courses

- Defining the Renaissance: objects, theories, categories
- Research methods in practice.

### Optional courses may include:

- Death and the art of dying in the Renaissance north
- Masters of the Venetian Renaissance: Titian, Tintoretto, Veronese
- From Gothic to Renaissance in Northern Europe
- The Renaissance palace as portrait
- Work placement.

### Career prospects

Object-based study sessions and field trips will introduce you to professionals working in museums and the heritage industry and you will have the opportunity to gain further experience of these sectors through an optional work placement. The dissertation will foster essential independent research skills and prepare you for doctoral research should you wish to pursue an academic career.

## Curatorial Practice (Contemporary Art)

MLitt: 12 months full-time



This programme offers you the opportunity to study curatorial practice in Glasgow, a city with one of the most vibrant and distinctive art scenes in Europe. Jointly run by The Glasgow School of Art and the University of Glasgow, the programme takes the link between curator and artist as the starting point from which to explore curatorial practice.

[lesley.young@glasgow.ac.uk](mailto:lesley.young@glasgow.ac.uk),  
[m.laiseca@gsa.ac.uk](mailto:m.laiseca@gsa.ac.uk)

### Programme structure

You will develop your individual interests, hone your thinking and acquire practical professional skills while initiating and producing real exhibitions, projects and events. You will produce at least two public-facing curatorial projects. Core teaching is delivered during the first and second semesters. One additional course, including an option for a work placement, is taken in the second semester. In semester 3, you will produce a Masters project or a dissertation.

### Core courses

- Curatorial practice 1 and 2
- Research methods in practice.

### Optional course

In the second semester, you will undertake an optional course, choosing from a range offered across the subject areas within the School of Culture & Creative Arts at the University of Glasgow or elective courses offered by The Glasgow School of Art.

### Career prospects

The programme will develop your knowledge and expertise in the field of contemporary curatorial practice, and you will acquire a core body of skills and attributes that are attractive to employers, including critical enquiry, research capacity, project-planning, project administration, budgeting, practical problem solving and professional working.

## Textile Conservation

MPhil: 24 months full-time;  
48 months part-time



Textile Conservation is both an academic programme and professional training; it will give you a framework of theoretical knowledge and a range of practical experience which will enable you to contribute to the understanding and preservation of culturally significant textile artefacts.

[frances.lennard@glasgow.ac.uk](mailto:frances.lennard@glasgow.ac.uk)

### Programme structure

You will take core courses over two years which will develop an understanding of:

- the practical skills used in textile conservation
- the science underpinning textile deterioration and conservation treatments
- preventive conservation techniques
- the technological, cultural, historic and aesthetic contexts of textile artefacts
- the place of conservation in the wider cultural sector.

### Year 1

- Research methods in practice
- Principles and practice: core skills and ethics
- Understanding textiles: technology
- Principles and practice: developing skills
- Preventive conservation
- Material cultures
- Placement.

### Year 2

- Principles and practice: advanced skills
- Conservation in practice
- Deconstructing the artefact
- Principles and practice: conservation projects
- Professional development
- Research management
- Dissertation.

### Career prospects

The programme is at career-entry level and graduates are qualified to go on to a post-training internship or directly into the workplace as a textile conservator in a museum or other institution around the world, as well as to undertake further study at PhD level.

The great majority of graduates of this programme now work in museums and other institutions. They have an outstanding record of employment on graduation and of remaining in the sector and are now working in positions worldwide.

## Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil and MRes.

Our research expertise covers the following areas:

- European art historical periods, particularly medieval, Renaissance, 17th, 18th and 19th centuries
- Modernist studies, particularly Dada and Surrealism
- Chinese art and culture
- The development and application of art theory, particularly gender and post-1945
- Collecting practices, collections and museums
- Technical art history: interdisciplinary research into artists' materials, methods, and studio practices in the past and present, artists' intent, authenticity and authentication
- Material culture studies, particularly decorative art and design history
- Dress and textile history
- Textile conservation and textile conservation science.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/research/opportunities/subjects/historyofart](http://glasgow.ac.uk/research/opportunities/subjects/historyofart)

‘Glasgow is a great city to study art history. It has such rich collections, amazing buildings and a strong sense of pride and culture. I love the Alexander Thomson church on St. Vincent Street. It has this monolithic exterior, as you go up the hill, that is very powerful. Thomson was an amazing architect. His work is lovely and lyrical. I think, though, that the people at the University inspired me even more than the artworks.’

Michelle Millar Fisher, USA

(MA 2004, MPhil 2008), curatorial assistant at the Museum of Modern Art (MoMA) in New York.



# INFECTION, IMMUNITY & INFLAMMATION

The Institute contains scientists and clinical investigators of global repute who possess the broad expertise necessary to achieve our aims.

Despite the continual development of new therapies, antibiotics and vaccines, chronic inflammatory and infectious diseases still pose persistent health threats.

Infectious, autoimmune and inflammatory diseases place an enormous global burden on human and animal health. The Institute of Infection, Immunity & Inflammation comprises scientists and clinicians working together to promote and develop research, drug discovery and ultimately improvements in patient care in this area of critical international importance.

Our expertise is supported by state-of-the-art basic science technology, integrated seamlessly with translational clinical trial facilities. We also have numerous research links with disease endemic countries, in particular in Africa, South America and India.

We aspire to a truly 'bench to bedside and back' approach to resolving crucial questions of this new millennium.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Immunology & Inflammatory Disease

**MSc:** 12 months full-time

**PgDip:** 7 – 8 months full-time

**PgCert:** 3 – 4 months full-time

The contribution of inflammation and immune dysfunction to a wide range of diseases, from arthritis to cancer to obesity is becoming increasingly clear. The MSc in Immunology & Inflammatory Disease integrates basic, translational and clinical immunology and inflammation biology with cutting-edge molecular and cellular techniques to equip you with a working knowledge of inflammatory disease together with state-of-the-art research approaches used to study the area.

 [mvls-iid@glasgow.ac.uk](mailto:mvls-iid@glasgow.ac.uk)

### Programme structure

#### Core courses and project

- Immunology: basic translational and clinical
- Molecular research skills
- Designing a research project: biomedical research methodology
- Immunology and inflammatory disease research project (laboratory-based).

#### Optional courses may include:

- Animal models of disease
- Diagnostic technologies and devices
- Current trends and challenges in biomedical research and health
- Technology transfer and commercialisation of bioscience research
- Viruses and cancer
- In vitro and analytical approaches in neuroscience
- Omic technologies for biomedical sciences
- Bioimaging for research scientists
- Emerging viruses.

There are excellent opportunities to engage with industrial and clinical scientists, with guest lecturers from the pharmaceutical industry, medical diagnostic laboratories and bioscience business.

#### Career prospects

The programme provides an ideal grounding for progression to further research studies in immunology, inflammation and infectious diseases, or for a career in pharmaceutical/bioscience industries.

#### Why choose Glasgow?

- You will receive training in the disciplines of Immunology and Inflammation within an internationally recognised centre of excellence.
- The MSc in Immunology & Inflammatory Disease builds on over 40 years of experience in teaching immunology at Glasgow. Glasgow established the first BSc Honours programme in immunology in the UK and continues to provide one of the most comprehensive postgraduate and undergraduate educations in immunology in the country.

## Infection Biology (with specialisms)

**MSc:** 12 months full-time

**PgDip:** 7 – 8 months full-time

**PgCert:** 3 – 4 months full-time

The taught Infection Biology MSc will help you to develop your knowledge and understanding of the molecular mechanisms by which bacteria, viruses and parasites cause disease in humans and in domesticated animals, and the immune responses generated by these hosts to such pathogens. You can choose to specialise in virology, microbiology (bacteriology) or parasitology.

 [mvls-infectionbio@glasgow.ac.uk](mailto:mvls-infectionbio@glasgow.ac.uk)

### Programme structure

#### Core courses and project

- Host-pathogen interactions and immune responses to infection
- Molecular research skills
- Designing a research project: biomedical research methodology
- Infection biology research project (laboratory-based or non-laboratory-based, in virology, parasitology or microbiology).

#### Optional courses may include:

- Animal models of disease
- Bioimaging for research scientists
- Current trends and challenges in biomedical research and health
- Drug discovery
- Diagnostic technologies and devices
- Omic technologies for biomedical sciences
- Technology transfer and commercialisation of bioscience research.

#### Career prospects

The University of Glasgow MSc in Infection Biology provides you with many career opportunities.

Research: About half of our MSc students enter a research career, mainly by undertaking further postgraduate research studies towards a PhD, or by working in research laboratories in clinical or academic settings, including national government laboratories.

Industry: Other students go on to work in the pharmaceutical, diagnostic or biotechnological industries.

#### Why choose Glasgow?

- This degree in Infection Biology allows you to study in an Institute housing two UK national centres of excellence, in Virology and Parasitology, and active in the Scottish Infection Research Network (SIRN).
- This programme provides access to a combination of highly-specialised equipment that is unique in Scotland, including cutting-edge in vitro and in vivo research facilities.

## Research opportunities

The PhD programme in Immunobiology is based on individual research projects covering an exciting range of topics, with specific areas of interest including:

- Atherosclerosis
- Bacteriology, parasitology and virology
- Cancer and leukaemia
- Chemokines and cell migration
- Cytokine biology
- Dendritic cell biology
- Imaging the immune response
- Infectious disease
- Intestinal immunity
- Intracellular signalling and transcriptional regulation
- Lymphocyte biology
- Neuroimmunology, including repair strategies for the CNS and PNS following immunologically-mediated injury (multiple sclerosis, Guillain-Barré syndrome) and spinal cord injury using glial/stem cell transplantation and antibody profiling
- Osteoimmunology
- Rheumatology
- Tissue injury and repair; focus on regenerative medicine.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/research/opportunities/subjects/immunologyinflammation](http://glasgow.ac.uk/research/opportunities/subjects/immunologyinflammation)

# INFORMATION STUDIES

Information Studies offers an exciting programme of research and teaching on the creation, management and use of information in all its forms. Our areas of specialty are:

- Museums
- Archives
- Libraries
- Information Management
- Digital Humanities.

Our rich environment of practice-based teaching and research is immersed in heritage and provides first-hand experience in ways that knowledge has been created, used, communicated and preserved from the past to the digital age. Our facilities include:

- The new Kelvin Hall collections research and teaching spaces
- World-class collections of the Hunterian Museum
- University of Glasgow's Archives and Special Collections
- Museums and Libraries of the City of Glasgow.

Our programmes are designed in line with the skills and knowledge required by employers within their professional fields. Work placements, practitioner seminars and guest speakers are a key part of the learning environment.

If you study with us you will benefit from a unique combination of critical, analytical and communication skills that are in high demand by employers, equipping you to tackle the challenges of the 21st century. You will enjoy access to dedicated, cutting-edge computing facilities and unrivalled access to cultural heritage collections within one of the most inspirational and accessible cities in the world.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

[glasgow.ac.uk/  
subjects/informationstudies/  
postgraduate](http://glasgow.ac.uk/subjects/informationstudies/postgraduate)

## Information Management & Preservation

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time

**PgCert:** 4 months full-time

The programme provides you with an understanding of contemporary information and records management issues. It pays special attention to the management of digital records and electronic resources, and how to manage these alongside analogue resources.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

The programme is designed for those with a vocational interest in records management, archives and digital curation. It will prepare you to work in these fields, and give you a thorough grounding for continuing with research.

You will develop skills in the core competencies of archives and records information management, creating and managing digital records, digital curation and preservation issues, archival theory, user needs, and description, cataloguing, and navigation.

The programme consists of six courses spread over two semesters. You will take courses in:

- Archives and records information management
- Records and evidence
- Description, cataloguing and navigation
- Management, curation and preservation of digital materials.

### Optional courses may include:

- 2D digitisation
- Archives and records theory
- Document encoding
- Palaeography
- Phenomenology.

To graduate with the MSc you will also need to complete a course in research methods and professional studies, and produce a dissertation.

### Career prospects

As a graduate, you will be well placed for a career as an archivist, records manager or digital curator within a variety of public and private organisations.

Positions held by recent graduates include Assistant Archivist and Records Manager.

## Museum Studies

**MSc:** 12 months full-time;

24 or 36 months part-time

**PgDip:** 9 months full-time



The Masters in Museum Studies will help you develop the knowledge, understanding and skills required of today's versatile museum professional. It has been designed in conjunction with employers to meet their needs for well-rounded museum professionals trained in the latest theoretical and practical approaches.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

Three different strands of the MSc Museum Studies are offered.

The Theory and Practice strand is our standard Museum Studies programme where the museum itself is the primary object of study.

Two specialist strands enable you to combine courses in Museum Studies with specialist courses from the following Masters programmes: Art History: Collecting & Provenance in an International Context, and Material Culture & Artefact Studies.

Each strand will give you a different mix of core and optional courses. All students take two common core courses in Museology and Research and Professional Skills. You also take four courses from your strand (a combination of strand core and optional courses) and one research project.

There are great opportunities for you to take practice-based courses or work placements at the museums and galleries that partner the programme.

### Career prospects

Career opportunities exist in a variety of roles within the cultural heritage sector; these include museums and galleries as well as historic houses, heritage sites and consultancy. Roles range from front of house, education and outreach to collections management, curation, marketing and management.

## Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil, MRes.

Our research areas include:

- Theoretical approaches to information
- Management, curation and evaluation of digital assets
- Archives, records and (personal) information management
- Digital heritage, digital museology and digital humanities
- Entertainment and information access systems.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/research/opportunities/subjects/informationstudies](http://glasgow.ac.uk/research/opportunities/subjects/informationstudies)

# LAW

The teaching of law at the University of Glasgow dates back to the foundation of the University in 1451.

The School of Law has a long and illustrious history with distinguished alumni including judges, politicians and scholars. As one of the top law schools in the UK we enjoy a worldwide reputation for excellence in research.

As a student you will have access to our excellent facilities including a dedicated law library and Moot Courtroom as well as an opportunity to take part in our vibrant seminar series, featuring talks from highly successful judges and lawyers.

You will benefit from our employability experts, who organise careers events, courses and networking sessions to help you into a successful career. Studying Law at Glasgow equips you with the knowledge and skills you need in an increasingly competitive legal job market.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Corporate & Financial Law

**LLM:** 12 months full-time; 24 months part-time

The programme provides a specialist focus on transactions, markets and global regulatory issues. Modern lawyers need to understand the structure and interplay of both corporate and financial law at both domestic and international level.

 [konstantinos.sergakis@glasgow.ac.uk](mailto:konstantinos.sergakis@glasgow.ac.uk)

### Programme structure

You will study three or four courses from the following list (one choice can come from other subject areas), and submit a dissertation falling within the area. Courses are delivered through a blend of lectures and seminar-style teaching. You will be taught by a team of academics with practical experience of transactions and regulatory issues.

#### Courses

- Corporate and social responsibility
- Corporate finance
- Corporate governance
- Debt finance and security
- International financial regulation
- International finance law
- International investment law
- International merger control
- International tax law
- M&A transactions.

#### Career prospects

There is a high demand for law professionals with expertise in both corporate and financial law. You will be well placed for roles in law firms, banks, insurers, asset managers, regulators and international organisations.

## Diploma in Professional Legal Practice

**PgDip:** 9 months full-time

The Diploma provides you with the necessary qualification to pursue a law traineeship. It is the first step towards a career as a solicitor or advocate within Scotland. Our goal is to equip you with the hands-on skills necessary to practise law in the 21st century.

 [law-dip-legal-practice@glasgow.ac.uk](mailto:law-dip-legal-practice@glasgow.ac.uk)

### Programme structure

You will take five core and three optional courses. This allows you to select courses which suit your areas of interest or meet the requirements of your future employers in the legal profession. Courses are delivered through a combination of online resources, e-modules, lectures and small group tutorials (12 or fewer). Our team of highly experienced, enthusiastic and committed tutors, almost all of whom are practising solicitors or advocates, are all focused on ensuring that you meet the requirement of a 'Day 1 ready trainee' by the end of each course.

#### Core courses

- Civil litigation
- Commercial awareness
- Conveyancing
- Criminal litigation
- Private client.

#### Optional courses may include:

- Advanced civil litigation
- Advanced criminal litigation
- Commercial contracts
- Commercial conveyancing
- Contemporary Scottish public law
- Corporate
- Family law
- Human rights.

#### Career prospects

Upon successful completion you will be eligible to progress through your traineeship to work as a solicitor or advocate in Scotland. The Diploma in Professional Legal Practice is a requirement for entry into these roles in the legal profession.

## Intellectual Property & the Digital Economy

**LLM:** 12 months full-time; 24 months part-time

Within the rapidly globalising environment of intellectual property and digital commerce, this programme provides you with a unique opportunity to specialise in this increasingly important area of law.

 [thomas.margoni@glasgow.ac.uk](mailto:thomas.margoni@glasgow.ac.uk)

### Programme structure

You are required to take at least three courses from the following list (and four courses in total) and to submit a dissertation within the area. Courses are delivered through a blend of lectures and seminar-style teaching.

#### Courses

- Contemporary issues in intellectual property
- Copyright in the digital environment
- Design and patent law
- European Union trade law
- E-commerce, rights management and information
- Intellectual property and the market
- International and comparative intellectual property law
- International and comparative moral rights
- International competition law
- Trade marks and brands.

#### Career prospects

The programme provides high-level training at the intersection of law and technology – an area of crucial importance to legal professionals everywhere. The emphasis on research will help you to develop excellent analytical and writing skills highly sought after by potential employers. Internship opportunities with leading global and local firms support the development of further skills. Career paths include roles in law firms, entertainment and media companies, international organisations, government and non-governmental organisations.

## Intellectual Property, Innovation & the Creative Economy (online)

### MSc Online Distance Learning:

12 months full-time; 24/36 months part-time

### PgDip Online Distance Learning:

6 months full-time; 12 – 24 months part-time

### PgCert Online Distance Learning:

3 months full-time; 6 – 12 months part-time

This is a pioneering online programme offered by CREATe at the University of Glasgow. It is intended for those working in sectors where digital rights and obligations are a key concern. Successful leadership in the digital creative economy requires linking complex legal provisions (such as copyright, trademarks, data protection and privacy) to economic analysis and strategic thinking about markets and regulation.

[e sukhpreet.singh@glasgow.ac.uk](mailto:sukhpreet.singh@glasgow.ac.uk)

#### Programme structure

This programme is delivered online. You will take four core and two optional courses. Courses will last eight weeks and consist of online lecture materials, readings and independent weekly activities. Assessment for each course will be either by exam or by written assignment.

#### Core courses

- Copyright in the digital environment
- Economics of innovation
- Introduction to the creative economy: law, technology and culture
- Trademarks and brands.

#### Optional courses may include:

- Information law and data management
- Participation, communities and users
- Regulation, policy and the creative economy
- Strategic management in the creative economy.

#### Career prospects

This programme is ideal for those with interest in the media or creative fields, who wish to augment their practical skills with expertise in intellectual property management. Upon successful completion of the programme, you will be well equipped to work in production and managerial roles in media organisations, or to use your acquired knowledge in the creative economy to work in policy or regulatory research and consulting roles.

## Intellectual Property, Innovation & the Creative Economy (online)

### LLM Online Distance Learning:

12 months full-time; 24/36 months part-time

### PgDip Online Distance Learning:

6 months full-time; 12 – 24 months part-time

### PgCert Online Distance Learning:

3 months full-time; 6 – 12 months part-time

This is a pioneering online programme offered by CREATe at the University of Glasgow. It is intended for people working in sectors where digital rights and obligations are a key concern. Successful leadership in the digital creative economy requires linking complex legal provisions (such as copyright, trademarks, data protection and privacy) to economic analysis and strategic thinking about markets and regulation.

[e sukhpreet.singh@glasgow.ac.uk](mailto:sukhpreet.singh@glasgow.ac.uk)

#### Programme structure

This programme is taught online. You will take four core and two optional courses. Courses will last eight weeks and consist of online lecture materials, readings and independent weekly activities. Assessment for each course will be either by exam or by written assignment.

#### Core courses

- Copyright in the digital environment
- Information law and data management
- Introduction to the creative economy: law, technology and culture
- Trademarks and brands.

#### Optional courses may include:

- Economics of innovation
- Participation, communities and users
- Regulation, policy and the creative economy
- Strategic management in the creative economy.

#### Career prospects

This programme is ideal for those with some experience in the media or creative fields, who wish to augment their practical skills with expertise in intellectual property management. Upon successful completion of the programme, you will be well equipped to work in production and leadership roles in media organisations, or to use your acquired knowledge in the creative economy to work in policy or regulatory research and consulting roles.

## International Commercial Law

LLM: 12 months full-time; 24 months part-time

Continual developments in e-commerce and a shift towards global trading mean that new legal skills and knowledge are constantly needed in many jobs. The programme will prepare you for a career focused in these key international areas.

[e andreas.rahmatian@glasgow.ac.uk](mailto:andreas.rahmatian@glasgow.ac.uk)

#### Programme structure

You are required to take at least three courses from the following list (plus one other) and to submit a dissertation. Courses are delivered through a blend of lectures and seminar-style teaching. The use of international sources, such as conventions, means you learn about the law in the UK while also developing a broader international perspective.

#### Courses

- Advanced international competition law
- Corporate finance
- Corporate governance
- Corporate social responsibility and the law
- Debt finance and security
- E-commerce, rights management and information
- European Union trade law
- International competition law
- International financial regulation
- International trade law
- International investment law
- International merger control
- International sales and finance
- International tax law
- M&A transactions.

#### Career prospects

There is a high demand for law professionals with expertise in international commercial law. You will be well placed for roles in law firms, banks, international traders, asset managers and regulators.

## International Competition Law & Policy

LLM: 12 months full-time; 24 months part-time

The programme provides you with a unique opportunity to specialise in an increasingly important area of law. The laws of the EU and the US lie at the heart of this programme, but reference is made to the laws of many other jurisdictions.

[e mark.furse@glasgow.ac.uk](mailto:mark.furse@glasgow.ac.uk)

#### Programme structure

You are required to take at least three courses from the following list (plus one other) and to submit a dissertation. Courses are delivered through a blend of lectures and seminar-style teaching.

#### Courses

- Advanced international competition law
- Intellectual property law and the market
- International competition law
- International merger control.

#### Career prospects

The programme provides a thorough academic background in the area of competition law and policy. Competition law has been subject to dramatic growth in recent years, and the need for properly qualified people has risen correspondingly. This is particularly the case in East Asia, but the trend is part of a wider one. Our graduates work in leading international law firms or prestigious domestic firms in a wide range of countries. Others are placed with regulators and competition agencies around the world, or work directly for industry and commerce.

## International Economic Law

LLM: 12 months full-time; 24 months part-time

The programme offers an in-depth study of all the different aspects of the contemporary regime of international economic law. Unlike most other programmes, it overcomes the division between the main branches of international economic governance – world trade, investment and finance – and raises awareness for common themes and challenges facing international economic law in these different areas.

**akbar.rasulov@glasgow.ac.uk**

### Programme structure

You will take one core and three optional courses, at least one of which must fall in the field of either international trade law or international investment law. Courses will be delivered through a combination of lectures and seminars. You will also be required to submit a dissertation on a related topic.

#### Core course

- International law and international economic governance.

#### Optional courses may include:

- Advanced international competition law
- EU trade law
- Globalisation and governance
- International and comparative intellectual property law
- International courts and tribunals
- International finance law
- International financial regulation
- International investment law
- International tax law
- International trade law
- International courts and tribunals.

#### Career prospects

The rare combination of doctrinal, theoretical, legal-historical, comparative and policy perspectives which this programme provides will prove highly attractive both to public- and private-sector employers. The programme will be of particular interest to those interested in pursuing a career in international organisations, government service, advanced research institutions, think-tanks, NGOs, independent consultancy, and academia. Those seeking to pursue a career in legal practice will benefit from the programme's broad approach: they will be able to situate specific legal problems arising in highly practical areas within the broader context of international economic law.

## International Law

LLM: 12 months full-time; 24 months part-time

The programme reflects the breadth of contemporary international law, addressing issues as diverse as world trade disputes, United Nations peacekeeping, international human rights litigation, state responsibility and criminal trials before international courts.

**christian.tams@glasgow.ac.uk**

### Programme structure

You are required to take at least three courses from the following list (plus one other) and to submit a dissertation. Courses are delivered through a blend of lectures and seminar-style teaching.

#### Courses

- Advanced international competition law
- Advanced introduction to international criminal law
- Advanced introduction to the law of the United Nations
- Foundations of international law (normally compulsory)
- International and European human rights law
- International courts and tribunals
- International trade law
- International investment law
- International law and international economic governance
- International tax law.

#### Career prospects

There is a high demand for law professionals with expertise in international law. The days in which international law was treated as an 'extra' are long gone. Lawyers pursuing ambitious careers will now inevitably have to deal with rules of international provenance, in fields as diverse as human rights or investment protection. With an LLM in international law from Glasgow, you will be well placed for roles in law firms, international institutions, government departments and non-governmental organisations.

## International Law & Security

LLM: 12 months full-time; 24 months part-time

This is an innovative programme that focuses on the role and relevance of international law in a rapidly changing global security environment. It reflects the breadth of contemporary international security issues, addressing issues as diverse as terrorism, armed conflicts and transnational organised crime.

**robin.geiss@glasgow.ac.uk**

### Programme structure

The courses are delivered through a combination of lectures, seminars and project work. You are required to study one core course and three optional courses, as well as to submit a dissertation.

#### Core course

- International law and international security.

#### Optional courses may include:

- Advanced introduction to international criminal law
- Advanced introduction to the law of the United Nations
- International and European human rights law
- International law and international economic governance
- International security and international relations
- The laws of armed conflict.

#### Career prospects

There is a high demand for law professionals with expertise in international law and security. You will be well placed for roles in international institutions, government departments (ministries of foreign affairs, defence, justice, home affairs, and development), non-governmental organisations and law firms.

## Law (LLM)

LLM: 12 months full-time; 24 months part-time

The Masters in Law (General LLM) provides a challenging general legal education at graduate level.

**andreas.rahmatian@glasgow.ac.uk**

### Programme structure

You will take four courses and submit a dissertation. For details of courses available, see programme entries for:

- Corporate & Financial Law (LLM)
- Intellectual Property & the Digital Economy (LLM)
- International Commercial Law (LLM)
- International Competition Law & Policy (LLM)
- International Economic Law (LLM)
- International Law (LLM)
- International Law & Security (LLM).

#### Career prospects

You will be well placed for roles in the legal profession as a lawyer, solicitor or advocate in law firms, government agencies or other organisations.

## Law (MRes)

MRes: 12 months full-time

This programme provides you with an excellent preparation for further research in Law, serving as a qualification in its own right and a platform for PhD study.

**[emilios.christodoulidis@glasgow.ac.uk](mailto:emilios.christodoulidis@glasgow.ac.uk)**

### Programme structure

You will take a combination of core and optional courses, followed by a dissertation on a specialised topic.

#### Core courses

- Advanced legal methods 1A: Legal research methodologies OR Advanced legal methods 1B: Traditions of legal enquiry
- Advanced legal methods 2: Jurisprudence of concepts
- Qualitative research methods OR Quantitative data analysis.

#### Optional courses may include:

Law (LLM) requires a prior degree in Law or a degree with a 50% law component:

- Intellectual property law and the market
- International competition law
- International trade law.

Law (MSc):

- Fundamentals of international law
- United Nations law.

Politics (MSc):

- Comparative European politics
- EU in international politics and development
- International security and global politics
- Internet and civil society
- International theory
- Media and democracy
- Political legitimacy: contemporary perspectives.

Research methods

- Applied qualitative methods.

### Career prospects

This programme provides an excellent foundation for an academic career in this field.

## Socio-Legal Studies

MRes: 12 months full-time

This programme offers an advanced introduction to the study of Law with a specific emphasis on socio-legal methodology. It provides you with an excellent preparation for doctoral study in the area of socio-legal research, serving as a qualification in its own right and a platform for PhD study.

**[emilios.christodoulidis@glasgow.ac.uk](mailto:emilios.christodoulidis@glasgow.ac.uk)**

### Programme structure

You will take five core courses and one optional course, followed by a dissertation on a specialised topic.

#### Core courses

- Advanced legal methods 2: Jurisprudence of concepts
- Applied qualitative methods OR Introduction to social theory for researchers
- Applied legal methods 1A: Legal research methodologies OR Advanced legal methods 1B: Traditions of legal enquiry
- Qualitative research methods
- Quantitative data analysis.

#### Optional courses may include:

- Fundamentals of international law
- United Nations law.

### Career prospects

This programme provides you with an excellent foundation for an academic career in this field.

## Research opportunities

We offer the following research study options:

PhD, LLM by Research.

Our research areas include:

- Commercial and competition law
- Criminal law and criminal justice
- Family law
- Intellectual property
- International law
- International private law
- Labour law
- Legal history at Glasgow
- Legal theory
- Private law
- Public law.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/law](http://glasgow.ac.uk/research/opportunities/subjects/law)

‘Glasgow definitely surpassed my expectations and in my opinion is the ideal place to pursue an LLM degree. The academic and administrative staff were always helpful and supportive.

I feel that the programme is very current and up-to-date with the practical realities in the field of intellectual property.’

Elise, Malta

Intellectual, Property & the Digital Economy (LLM) graduate

# LIFE SCIENCES

The School of Life Sciences has an international reputation for research in modern biological sciences.

We offer an exceptional choice of degree programmes including the areas of:

- Molecular biology
- Cellular biology
- Population ecology.

We take a collaborative, crossdisciplinary approach to addressing the scientific challenges of this post-genomic and information age. If you choose to study with us you can benefit from an exceptional choice of degree programmes that attract students from across the globe.

The strengths of the school include the academic breadth of teaching activities, innovative teaching practice and experienced staff committed to providing an excellent teaching and learning experience for students.

Our competitive degrees utilise the research and teaching strengths of the College of Medical, Veterinary & Life Sciences to deliver research-led education and equip our graduates with the skills and attributes necessary for success in any chosen career.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Bioinformatics

**MSc:** 12 months full-time

**PgDip:** 9 months full-time

**PgCert:** 3 months full-time

Bioinformatics is a discipline at the interface between biology and computing and is used in organismal biology, molecular biology and biomedicine. The MSc programme focuses on using computers to glean new insights from DNA, RNA and protein sequence data and related data at the molecular level through data storage, mining, analysis and visualisation – all of which form a core part of modern biology. The programme is geared to those who want to learn both about computing (e.g. programming) and about integrative functional genomics and its role in modern biology.

**[mvls-bioinformatics@glasgow.ac.uk](mailto:mvls-bioinformatics@glasgow.ac.uk)**

### Programme structure

#### Core courses

- Programming (Java)
- Database theory and application
- Foundations of bioinformatics
- Omics and systems approaches in biology
- 60-credit summer research project lasting 14 weeks; normally this will be with one of the research laboratories in Glasgow associated with the programme, but there is also the opportunity to study in suitable laboratories in other parts of the world.

#### Optional and bioinformatics-specific courses may include:

- RNA-seq and next generation transcriptomics
- Pathogen polyomics
- Identification of disease-causing genetics variants
- Using chemical structure databases in drug discovery for protein targets.

#### Career prospects

Our programme caters for three main career tracks:

- General biology PhD – many projects now require some bioinformatics skills, either to supplement bench science, or as the focus of the project
- Core bioinformatician/RA posts
- Outside science – many employers value ‘big data’ handling skills.

## Biomedical Sciences (MSc)

**MSc:** 12 months full-time

This MSc programme in Biomedical Sciences offers research training for those intending to proceed to a career in biomedical sciences, either directly or through a PhD. It is based on a single research project and coursework. It is similar to the MRes in Biomedical Sciences, but instead has one research project and more taught courses to prepare you for work in a laboratory environment. It is designed for those who feel they need more experience before undertaking a laboratory-based research project.

**[mvls-mscbms@glasgow.ac.uk](mailto:mvls-mscbms@glasgow.ac.uk)**

### Programme structure

The overall aims of the programme are to provide you with:

- the knowledge, skills and confidence needed to pursue a career in laboratory research
- a theoretical and practical understanding of advanced techniques used in modern biomedical sciences research
- the opportunity to practise research skills in the laboratory by completing an extensive research project in an area of their choice.

## Biomedical Sciences (MRes)

**MRes:** 12 months full-time

This Masters programme in Biomedical Sciences offers research training for those intending to proceed to PhD. It is largely based on individual research projects rather than coursework, and allows you to specialise in a particular area of study.

**[mvls-mresbms@glasgow.ac.uk](mailto:mvls-mresbms@glasgow.ac.uk)**

### Programme structure

The overall aims of the programme are to provide you with:

- the knowledge, skills and confidence needed to pursue a career in laboratory research
- a theoretical and practical understanding of advanced techniques used in modern biomedical sciences research
- the opportunity to practise research skills in the laboratory by completing two extensive research projects.

MRes students have the opportunity to specialise in a particular discipline or area, which can be important for their career development. The specialisations are:

- Biotechnology
- Cancer studies
- Cardiovascular studies
- Cell engineering
- Integrative mammalian biology
- Medical biochemistry and molecular biology
- Molecular genetics
- Neuroscience.

To qualify for a specialisation, you must select two research projects in a cognate research area. In the case of the Integrative Mammalian Biology specialisation, this will be a single research project spanning the two project slots.

## Human Anatomy

PgCert: 5 months part-time

This taught Postgraduate Certificate in Human Anatomy is a new unique programme offering comprehensive training in all human anatomy, including legislation relevant to working in a human anatomy laboratory.

 [mvls-anatomy@glasgow.ac.uk](mailto:mvls-anatomy@glasgow.ac.uk)

### Programme structure

The Postgraduate Certificate in Human Anatomy comprises three core compulsory courses taught from January to May each year. It comprises approximately 10 hours of direct contact teaching each week during the programme.

- Introduction to anatomy
- Structure and function of the human body
- Cadaveric dissection techniques.

### Career prospects

The Postgraduate Certificate in Human Anatomy gives comprehensive anatomical training which could provide a platform for further study in the field. It could enhance an individual's clinical portfolio for a specialty related to the surgical, paramedical and allied health professionals practice which requires an in-depth anatomical knowledge.

## Medical Visualisation & Human Anatomy

**MSc:** 12 months full-time

This programme is the first taught Masters programme in medical visualisation in the UK. Offered jointly by the University of Glasgow and The Glasgow School of Art, it combines actual cadaveric dissection with 3D digital reconstruction, interaction and visualisation.

 [paul.rea@glasgow.ac.uk](mailto:paul.rea@glasgow.ac.uk),  
 [d.livingstone@gsa.ac.uk](mailto:d.livingstone@gsa.ac.uk)

### Programme structure

You will split your time between The Glasgow School of Art (School of Simulation & Visualisation) and the University of Glasgow (Laboratory of Human Anatomy). The programme is structured in three stages.

Stage one: digital technologies applied to medical visualisation (at The School of Simulation & Visualisation):

- 3D modelling and animation
- Applications in medical visualisation
- Volumetric visualisation
- Core research skills.

Stage two: human anatomy (at the Laboratory of Human Anatomy):

- Introduction to anatomy
- Structure and function of the human body
- Cadaveric dissection techniques.

In stage three you will complete a self-directed final project, supported with individual supervision.

### Career prospects

Career opportunities exist within the commercial healthcare device manufacturer, public and private healthcare sectors, as well as in academic medical visualisation research and development. You will be able to gain 3D visualisation skills specific to applications in the medical, biomedical, anatomy, or health domains and will be involved in the design and development of related visualisations and/or applications through digital technology, e.g. visualising current life science research, creating patient information applications or training applications for medical practitioners, diagnostic and clinical applications, medical visualisation and simulation.

## Research opportunities

We offer PhDs in the following research areas:

- Molecular biology
- Cellular biology
- Population ecology.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/schools/lifesciences/research](http://glasgow.ac.uk/schools/lifesciences/research)

‘The MRes course was very stimulating and exciting, as my classmates and I managed to learn a diversity of research topics in a very short time. I also had the amazing opportunity to interact with students from all over the world while getting to know other cultures. I believe obtaining a Master of Research degree at Glasgow is a great way to prepare the path for future scientists, as it provides a highly comprehensive level of research competence for a young mind set on science.’

Daniela, Venezuela  
Biomedical Sciences (MRes) graduate

# MANAGEMENT

Management at the University of Glasgow began in the late 1950s and is part of an internationally accredited world-class business school.

The University of Glasgow has a long tradition of research-led business and management education and development, delivered within an internationally recognised and highly regarded Russell Group University.

Our aim is to help creative thinkers, managers and executives to realise their potential by stimulating interest and reflection, heightening awareness and expanding horizons. Our working environment is collaborative, collegiate and cross-disciplinary. The result is research that is world-leading, innovative, significant, rigorous and featured in respected academic journals.

If you study with us you will benefit from industry links which offer tangible benefits to our students. Corporate supported teaching spaces and consultancy projects provide an enhanced learning experience, while commissioned research informs our teaching, providing students with the most up-to-date management knowledge.

 **For information on how to apply,**  
see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Finance & Management

**MSc:** 12 months full-time

This programme combines the expertise of the subject areas of management and economics and provides you with a variety of skills and in-depth knowledge associated with financial management and international business.

 [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

### Programme structure

You will take both core and optional courses and complete a substantial independent piece of work, normally in the form of a dissertation, on a topical business, finance or management related issue. You will benefit from active learning in real life case studies and scenario investigations, guest talks, lectures by senior business practitioners, and career development sessions involving essay and exam answering workshops, CV writing workshops, and mock interviews.

#### Core courses

- Corporate finance and investment
- Financial services
- Global business environment
- International strategic management
- Managing across cultures and comparative management
- Management issues and controversies.

#### Optional courses may include:

- American business and management in an international context
- International finance and money
- Modern theory of banking and finance
- The business environment in China
- The European business environment
- The internationalisation of SMEs.

#### Career prospects

This programme will equip you with essential practical, intellectual and transferable skills for careers in financial services, management, business analysis and consultancy, or for evaluating and launching international ventures. Companies which have employed graduates include Scottish Enterprise, British Consulate, Siemens, and Procter & Gamble.

## International Business & Entrepreneurship

**MSc:** 12 months full-time

This programme will provide you with advanced knowledge and skills in international business, cross-cultural management and international entrepreneurship.

 [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

### Programme structure

You will take nine core and three optional courses and submit a substantial independent piece of work. You will develop practical, intellectual and transferable skills through a range of group and individual activities. You will be involved in active learning in multicultural groups with simulations, real life case studies and scenario investigations involving a series of workshops, seminars and presentations. You will also be involved in internationalisation consultancy projects with real companies.

#### Core courses

- Entrepreneurial finance
- Global business environment
- International entrepreneurship and innovation
- International management solutions
- International strategic management
- Managing across cultures and comparative management
- Managing the multinational enterprise and subsidiaries
- Market analysis
- Research methods.

#### Optional courses may include:

- American business and management in an international context
- Digital entrepreneurship
- Entrepreneurial perspectives on internationalisation
- International business ethics
- Managing innovation and technology transfer.

#### Career prospects

This programme emphasises reflective learning, active participation, and the development of interpretive, evaluative and problem-solving abilities which provide benefits for employers and enhance the career prospects of our graduates. Many students have taken fast-track routes to senior positions such as financial analysts, development executives and contract managers. Some international companies which have appointed our graduates include Siemens, Citigroup and Procter & Gamble.

## International Human Resource Management & Development

**MSc:** 12 months full-time

This programme blends theory and practice allowing you to develop a comprehensive knowledge of contemporary human resource management and human resource development within international contexts.

 [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

### Programme structure

You will take eight core and two optional courses, and complete a dissertation. Teaching methods include lectures, workshops, experiential learning, tutorials, guest speakers, case studies, videos and group work. Your dissertation is an opportunity to research an issue of your choice in depth, develop specific subject knowledge, and consolidate research and problem-solving skills.

#### Core courses

- Developing skills for business leadership
- Human resource development
- Human resource management context: Understanding organisations and external environments
- International perspectives on employment relations
- Managing and leading people in an international context
- Managing diversity
- Operational and strategic HRM
- Research skills for managers.

#### Optional courses may include:

- Career management in the contemporary economy
- Knowledge management and organisational learning
- Organisational misbehaviour
- Understanding global work.

#### Career prospects

By the end of the programme, you will have acquired the knowledge and competence for developing career pathways in HRM and HRD and developed skills for leading and managing internationally. The learning approach emphasises experiential learning, reflective practice, and the development of interpretive, evaluative and problem-solving abilities which provide benefits for employers and enhance graduate career prospects.

## International Management & Design Innovation

**MSc:** 12 months full-time

This programme has been designed in association with The Glasgow School of Art and will develop your creativity, flexibility, adaptive capacity and ability to work in complex teams across disciplines.

**e** [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

### Programme structure

You will take eight core courses and complete a substantial independent piece of work in the form of a project or dissertation.

You will take interactive lectures, seminars, project work and classes in study skills. You will also learn practical, intellectual and transferable skills, which are developed through a range of group and individual activities within and outside the classroom.

You will attend the learning environment at The Glasgow School of Art (GSA) to undertake practical design workshops and studio sessions, where ideas from lectures and seminars may be tested out, or new concepts explored. There is an emphasis upon divergent thinking, risk-taking, developing reasoning and creative expression.

You will engage in critiques, which is an important learning device used to generate peer/academic debate regarding the overall success of concepts, and their practical realisation within the context of a project brief or proposal.

### Core courses

- Business finance
- Contemporary issues in human resources
- Contextual practices (GSA)
- Collaborative practices (GSA)
- Managing strategic change
- Marketing management
- Operations management
- Service design: User-led service innovation (GSA).

### Career prospects

Graduates have gone on to successful careers within professional design/management consultancies, business enterprises, management roles in the private and public sector, or to further their academic study.

## International Strategic Marketing

**MSc:** 12 months full-time

This specialist programme will provide you with a detailed understanding of contemporary marketing principles, techniques and trends from an international perspective and will promote an appreciation of how these are utilised in strategic marketing planning.

**e** [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

### Programme structure

You will take nine core and three optional courses, followed by a substantial independent piece of work. Reflecting, evaluating and presenting are commonplace and facilitated at every stage by simulations, real life case studies and scenario investigations. You will also be given the opportunity to pursue in-company projects and business simulations.

### Core courses

- Consumer behaviour
- Global business environment
- International strategic management
- Managing across cultures and comparative management
- Marketing communications
- Marketing ethics and society
- Marketing planning and decision making
- Services marketing
- Strategic marketing management.

### Optional courses may include:

- E-marketing strategy
- International brand management
- Retail marketing
- Sales management and techniques
- Strategic marketing consultancy.

### Career prospects

You will participate in career development sessions involving essay and exam answering workshops, CV writing sessions, interview simulations, careers advice shops and job market analysis meetings. Many students have taken fast track routes to senior positions such as marketing managers, group brand managers, marketing research executives and account managers. Some international companies which have appointed our graduates include Siemens, Citigroup and Procter & Gamble.

## Management (MSc)

**MSc:** 12 months full-time

This programme is for graduates from non-business related disciplines who want to develop an understanding of modern business principles, including financial information management, managing people in organisations, marketing and strategy.

**e** [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

### Programme structure

You will take a series of core and optional courses and complete a substantial independent piece of work, normally in the form of a project, dealing with a topical management issue. There are also non-assessed, compulsory workshop programmes, involving participation in a series of reflective learning exercises that include induction events, strategic case analyses and debates. The taught courses comprise a combination of lectures, seminars, tutorials, simulations, fieldwork and project work, both in groups and individually.

### Core courses

- Business management and decision making
- Delivering performance
- Dimensions of international business and management
- Financial information management
- Marketing management
- People in organisations
- Strategic management.

### Optional courses may include:

- Analytical marketing
- Business environment in China
- Digital transformation
- E-marketing strategy
- Influencing skills.

### Career prospects

Many students have taken fast track routes to senior positions such as Development Executive, Client Services Manager, and Sales and Marketing Director. Some international companies which have appointed our graduates include Siemens, Citigroup and Procter & Gamble.

## Management (MRes)

**MRes:** 12 months full-time; 24 months part-time

This programme provides robust yet flexible training for those who wish to undertake research into management and related disciplines. It develops expertise in designing, implementing and executing research projects and offers rigorous training in research methods and their theoretical and philosophical underpinnings.

**e** [christine.athorne@glasgow.ac.uk](mailto:christine.athorne@glasgow.ac.uk)

### Programme structure

You will take four core and a selection of optional courses. Teaching involves lectures and seminars and is supported by online self-study materials as appropriate to the course.

You will also undertake an independent desk- or practice-based project.

### Core courses

- Management research methods
- Masterclass in management theory and practice
- Qualitative methods
- Quantitative data analysis.

### Optional courses may include:

- Brand management
- Business ethics
- Digital entrepreneurship
- Entrepreneurial finance
- International strategic management
- Leadership and talent management
- Managing across cultures
- Managing diversity
- Marketing communications.

### Career prospects

By the end of the programme, you will have knowledge and skills that equip you to undertake independent research at the frontier of the management field. This will enable you to pursue further PhD research or to take up employment in policy or practice that relies on management research. Graduates can pursue careers in management, including local and national government, business and industry. Possible professions include management consultant, analyst or research project manager. This degree can also be useful in becoming a systems analyst, retail manager or marketing manager.

## DUMFRIES/GLASGOW CAMPUS

### Management & Sustainable Tourism

**MSc:** 12 months full-time

This programme provides you with an understanding of the contemporary issues impacting on the tourism industry and an awareness of the cultural, environmental and sustainability dimensions of rural and urban tourism. By the end, you will have the underpinning managerial and service-related knowledge and understanding to participate in and develop internationally attractive tourism offerings.

**e** [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

#### Programme structure

You will take eight core courses and one optional course, followed by a piece of independent work, either in the form of a dissertation or a project. Your learning experience will be enhanced through a variety of extra-curricular activities, including seminar programmes, study visits and project-orientated internships.

Semester 1 will be spent at our Gilmorehill Campus in Glasgow (management) and semester 2 at our Dumfries Campus (tourism). The summer months can be spent in either Glasgow or Dumfries, depending on your topic of dissertation/project.

#### Core courses

- Business finance
- Contemporary issues in human resource management
- Events management
- Managing strategic change
- Operations management
- Tourism sustainability and climate change.

#### Optional courses may include:

- Environmental ethics and behavioural change
- Environmental politics and society
- Sustainable heritage management
- Tourism marketing.

#### Career prospects

Potential career pathways may include specialist managerial roles within the leisure and tourism industry and heritage and cultural industry, as well as generalist managerial roles with industry, commerce and both the public and private sector. Enterprising graduates may go on to develop business opportunities within the tourism, heritage and cultural industries, either individually or in partnership. You will also be equipped to pursue further study through doctoral research.

## Management with Enterprise & Business Growth

**MSc:** 12 months full-time

Studies in this area provide you with a detailed understanding of modern business principles, techniques and contextual conditions, paying particular attention to business enterprise and growth.

**e** [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

#### Programme structure

You will take a series of core and optional courses and complete a substantial independent piece of work, normally in the form of a project, dealing with a topical management issue. There are also non-assessed, compulsory workshop programmes, involving participation in a series of reflective learning exercises that include induction events, strategic case analyses and debates.

The taught courses comprise a combination of lectures, seminars, tutorials, simulations, fieldwork and project work, both in groups and individually.

#### Core courses

- Business management and decision making
- Business planning
- Delivering performance
- Financial information management
- Marketing management
- People in organisations
- Strategic management.

#### Optional courses may include:

- Digital transformation
- Internationalisation of small and medium enterprises (SMEs).

#### Career prospects

As a graduate of this programme you will be able to show initiative, take personal responsibility, demonstrate leadership potential, and adapt to changing circumstances. Some international companies which have appointed our graduates include Siemens, Citigroup and Procter & Gamble.

## Management with Human Resources

**MSc:** 12 months full-time

The programme provides you with a detailed understanding of modern business principles, techniques and contextual conditions, paying particular attention to human resource management.

**e** [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

#### Programme structure

You will take a series of core and optional courses and complete a substantial independent piece of work, normally in the form of a project, dealing with a topical management issue.

There are also non-assessed, compulsory workshop programmes, involving participation in a series of reflective learning exercises that include induction events, strategic case analyses and debates.

The taught courses comprise a combination of lectures, seminars, tutorials, simulations, fieldwork and project work, both in groups and individually.

#### Core courses

- Business management and decision making
- Contemporary issues in human resources management
- Delivering performance
- Financial information management
- Marketing management
- People in organisations
- Strategic management.

#### Optional courses may include:

- Influencing skills
- International human resource management
- Learning and development
- Managing diversity in organisations.

#### Career prospects

As a graduate of this programme you will be able to show initiative, take personal responsibility, demonstrate leadership potential, and adapt to changing circumstances. Some international companies which have appointed our graduates include Siemens, Citigroup and Procter & Gamble.

## Management with International Finance

**MSc:** 12 months full-time

The programme provides you with a detailed understanding of modern business principles, techniques and contextual conditions, paying particular attention to international finance.

**e** [business-management@glasgow.ac.uk](mailto:business-management@glasgow.ac.uk)

#### Programme structure

You will take a series of core and optional courses and complete a substantial independent piece of work, normally in the form of a project, dealing with a topical management issue. There are also non-assessed, compulsory workshop programmes, involving participation in a series of reflective learning exercises that include induction events, strategic case analyses and debates.

The taught courses comprise a combination of lectures, seminars, tutorials, simulations, fieldwork and project work, both in groups and individually.

#### Core courses

- Business management and decision making
- Corporate finance
- Delivering performance
- Marketing management
- People in organisations
- Strategic management.

#### Optional courses may include:

- International banking and financial management (Accounting & Finance)
- Mergers and acquisitions (Accounting & Finance).

#### Career prospects

Many students have taken fast track routes to senior positions such as Financial Analyst, Development Executive and Contract Manager. Some international companies which have appointed our graduates include Siemens, Citigroup and Procter & Gamble.

## MBA (Master of Business Administration)

MBA: 12 months full-time

The Glasgow MBA will empower you with the skills and tools needed to become a successful manager. An investment in your future, our MBA matches an ancient tradition of academic excellence with exposure to contemporary business practice.

 [business-mba-enquiries@glasgow.ac.uk](mailto:business-mba-enquiries@glasgow.ac.uk)

### Programme structure

#### Core courses

- Decision making under uncertainty
- Business strategic management
- Strategic foresight.

#### Optional courses

You will have the choice of five optional courses. These will give you the choice to follow three specialist tracks: Finance, Strategy or Marketing. Previous courses have included:

- Business scenarios for consulting
- Company and market failure
- Corporate image, branding and communication
- Entrepreneurial finance
- International financial analysis
- Project leadership and control
- Strategic human resource management
- Supply and logistics management.

#### Personal and career development

This element runs in parallel to the rest of the programme, beginning immediately after Leadership Foundations. It is made up of five interconnected components: mentorship in leadership and employability; personal development planning; research techniques training; and the primary research project of the dissertation. The final element is a group project to test the skills and techniques you have accumulated through the programme.

#### Career prospects

Our dedicated MBA Careers Manager will support you throughout the MBA programme and will help you plan your post-MBA career and equip you with the tools and strategies to compete effectively within the global job market. As an MBA graduate you join the ranks of successful and influential professionals making a mark on organisations around the world.

### Research opportunities

Management embraces diverse social science methodological traditions and research methods. Its interdisciplinarity and methodological pluralism position it well to address key contemporary concerns in the area of global economic performance, and new technology, innovation and skills. We currently offer a PhD in Management.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/management](http://glasgow.ac.uk/research/opportunities/subjects/management)

## MATHEMATICS & STATISTICS

Glasgow's proud history of excellence in Mathematics dates back to the 17th century and we have one of the largest statistical groups in the UK.

With 51 full-time academic staff and 70 postgraduate students, the School of Mathematics & Statistics is one of the largest in the UK.

If you study with us you can benefit from our highly rated teaching standards and supportive learning environment. You will participate in an extensive and varied seminar programme, with members of the school involved in networks including the North British Functional Analysis Seminar, the North British Differential Equations Seminar and the London Mathematical Society Network on Classical and Quantum Integrability.

The School offers a vibrant, dynamic and supportive environment for both staff and students. Our graduates have an excellent track record of gaining employment in many sectors including finance, academia, industry and teaching, while others have continued to a PhD.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

### Research opportunities

We offer the following research study options:

PhD, MSc (Res).

Our research areas include:

- Algebra
- Analysis
- Biostatistics
- Continuum mechanics
- Environmental statistics
- Geometry and topology
- Integrable systems and mathematical physics
- Mathematical biology
- Statistical methodology.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/mathematics](http://glasgow.ac.uk/research/opportunities/subjects/mathematics) or [glasgow.ac.uk/research/opportunities/subjects/statistics](http://glasgow.ac.uk/research/opportunities/subjects/statistics)

## Advanced Statistics

MRes: 12 months full-time

This flexible Masters programme will allow you to gain further experience in complex state-of-the-art statistical methods, both in terms of their practical application and their underpinning theory. Previous study of statistics is required.

 [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

#### Courses include (12 chosen):

- Advanced Bayesian methods
- Advanced data analysis
- Bayesian statistics
- Big data analytics
- Biostatistics
- Data analysis
- Data management and analytics using SAS
- Design of experiments
- Environmental statistics
- Financial statistics
- Flexible regression
- Functional data analysis
- Generalised linear models
- Introduction to R programming
- Linear mixed models
- Machine learning
- Multivariate methods
- Principles of probability and statistics
- Professional skills
- Spatial statistics
- Statistical genetics
- Stochastic processes
- Time series.

You will also carry out a project (60 credits), assessed by a dissertation.

### Career prospects

Statistician is projected to be one of the fastest-growing occupations. Statistical analysis and data mining was ranked 2nd in LinkedIn Global's Top Skills of 2016.

Our graduates have an excellent track record of gaining employment in many sectors, including medical research, the pharmaceutical industry, finance and government statistical services, while others have continued to a PhD. Our recent graduates have taken up positions as Statisticians with the Scottish Government, as Advanced Analytics Analyst at Deloitte Ireland, as Consultant at the World Bank and as Research Officer at Kenya Medical Research Institute (KEMRI).

## Biostatistics

**MSc:** 12 months full-time

Statistical methods play a key role in medical research and in the pharmaceutical industry. This Masters will provide you with a thorough grounding in state-of-the-art statistical methods and their use in medical and genetic applications, together with the practical experience of carrying out detailed statistical investigations. Previous study of Statistics is not required.

**e** [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

#### Core courses (compulsory)

- Bayesian statistics
- Biostatistics
- Generalised linear models
- Introduction to R programming
- Preliminary mathematics for statisticians
- Probability
- Regression models
- Statistical inference.

In your project (60 credits) you will model data collected in biomedical research, assessed by a dissertation.

**Optional courses (Choose at least one course from group 1 with remaining courses coming from group 2)**

#### Group 1

- Professional skills
- Data analysis.

#### Group 2

- Data management and analytics using SAS
- Design of experiments
- Functional data analysis
- Spatial statistics
- Statistical genetics
- Time series.

#### Career prospects

Our graduates have an excellent track record of gaining employment in many sectors including medical research, the pharmaceutical industry, finance and government statistical services, while others have continued to a PhD. Our recent graduates have taken up positions as Statisticians with the Scottish Government, as Advanced Analytics Analyst at Deloitte Ireland, as Consultant at the World Bank and as Research Officer at Kenya Medical Research Institute (KEMRI).

## Data Analytics

**MSc:** 12 months full-time

Data is becoming an ever increasing part of modern life, yet the talent to extract information and value from complex data is scarce. This Masters will provide you with a thorough grounding in state-of-the-art methods for learning from data, in terms of both statistical modelling and computation. Previous study of statistics or computing science is not required.

**e** [ludger.evers@glasgow.ac.uk](mailto:ludger.evers@glasgow.ac.uk), [surajit.ray@glasgow.ac.uk](mailto:surajit.ray@glasgow.ac.uk)

### Programme structure

#### Core courses

- Bayesian statistics
- Big data analytics
- Data management and analytics using SAS
- Generalised linear models
- Introduction to R programming
- Preliminary mathematics for statisticians
- Probability
- Regression models
- Statistical inference.

In your project you will model data collected from research in environmental science, assessed by a dissertation.

#### Optional courses

##### Group 1

- Artificial intelligence
- Information retrieval
- Machine learning
- Programming.

##### Group 2

- Professional skills
- Data analysis.

##### Group 3

- Biostatistics
- Design of experiments
- Environmental statistics
- Financial statistics
- Multivariate methods
- Spatial statistics
- Statistical genetics
- Stochastic processes
- Time series.

In your project you will tackle a complex data analytical problem or develop novel approaches to solving data analytical challenges.

#### Career prospects

Our graduates have an excellent track record of gaining employment in many sectors including medical research, the pharmaceutical industry, finance and government statistical services, while others have continued to a PhD.

## Data Analytics (online)

**MSc Online Distance Learning:** 36 months part-time

Whether you are looking to start a career in data science or develop your current career, this programme provides you with vital data science skills. This skills-based, yet rigorous curriculum provides you both with a thorough foundation in the underlying principles of learning from data and practical technical expertise in data handling, visualisation and modelling.

**e** [maths-stats-analyticsmsc@glasgow.ac.uk](mailto:maths-stats-analyticsmsc@glasgow.ac.uk)

### Programme structure

This flexible part-time programme is completed over three years. In the first two years, you will take two courses each semester. In third year, you will work on a project and dissertation.

#### Core courses

- Advanced predictive models
- Data analytics in business and industry
- Data management and analytics using SAS
- Data mining and machine learning I: supervised and unsupervised learning
- Data mining and machine learning II: big and unstructured data
- Data programming in python
- High-performance computing for data analytics
- Learning from data
- Predictive models
- R programming
- Stochastic models and probability
- Uncertainty assessment and Bayesian computation.

You will also carry out a 60-credit research project.

#### Career prospects

Data is becoming an ever-increasing part of the modern world, yet the talent to extract information and value from complex data is scarce. There is a massive shortage of data-analytical skills in the workforce. Statistical analysis and data mining was ranked 2nd in LinkedIn Global's Top Skills of 2016. This programme opens up a multitude of career opportunities and/or boosts your career trajectory.

## Environmental Statistics

**MSc:** 12 months full-time

Quantitative methods are becoming increasingly important in Environmental Sciences. This Masters will provide you with a thorough grounding in state-of-the-art statistical methods and their use in environmental applications, together with the practical experience of carrying out detailed statistical investigations. Previous study of statistics is not required.

**e** [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

#### Core courses (10 credits each)

- Bayesian statistics
- Data analysis
- Environmental statistics
- Generalised linear models
- Introduction to R programming
- Preliminary mathematics for statisticians\*
- Principles of GIS
- Probability\*\*
- Regression models\*\*
- Spatial statistics
- Statistical inference\*\*
- Time series
- Topographic mapping and landscape monitoring.

\* Course is optional for students with sufficient background in Linear Algebra and Calculus.

\*\* Students who have already completed an equivalent course can substitute this course by any other optional course, including optional courses offered as part of the MRes in Advanced Statistics (see the website for details).

In your project (60 credits) you will model data collected from research in environmental science, assessed by a dissertation.

#### Career prospects

Our graduates have an excellent track record of gaining employment in many sectors including medical research, the pharmaceutical industry, finance and government statistical services, while others have continued to a PhD. Our recent graduates have taken up positions as Statisticians with the Scottish Government, as Advanced Analytics Analyst at Deloitte Ireland, as Consultant at the World Bank and as Research Officer at Kenya Medical Research Institute (KEMRI).

## Mathematics / Applied Mathematics

**MSc:** 12 months full-time; 24 months part-time

The Masters in Mathematics/Applied Mathematics offers courses, taught by experts, across a wide range. Mathematics is highly developed yet continually growing, providing new insights and applications.

 [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

You will take a mixture of Level-H courses, Level-M courses and courses delivered by the Scottish Mathematical Sciences Training Centre (SMSTC).

#### Level-H courses (10 or 20 credits)

- Algebraic and geometric topology
- Continuum mechanics and elasticity
- Differential geometry
- Fluid mechanics
- Functional analysis
- Further complex analysis
- Galois theory
- Mathematical biology
- Mathematical physics
- Numerical methods
- Number theory
- Partial differential equations
- Topics in algebra.

#### Level-M courses (20 credits)

- Advanced algebraic and geometric topology
- Advanced differential geometry and topology
- Advanced functional analysis
- Advanced methods in differential equations
- Advanced numerical methods
- Biological and physiological fluid mechanics
- Commutative algebra and algebraic geometry
- Elasticity
- Further topics in group theory
- Lie groups, lie algebras and their representations
- Magnetohydrodynamics
- Operator algebras
- Solitons
- Special relativity and classical field theory.

#### SMSTC courses (20 credits)

- Advanced mathematical methods
- Advanced functional analysis

### Career prospects

Career opportunities are diverse and include academia, teaching, industry and finance.

## Statistics

**MSc:** 12 months full-time

This Masters will provide you with a thorough grounding in state-of-the-art statistical methods and their applications, together with the practical experience of carrying out detailed statistical investigations. Previous study of Statistics is not required.

 [pgadmissions@glasgow.ac.uk](mailto:pgadmissions@glasgow.ac.uk)

### Programme structure

#### Core courses (10 credits each)

- Bayesian statistic
- Generalised linear models
- Introduction to R programming
- Preliminary mathematics for statisticians
- Probability
- Regression models
- Statistical inference.

You will also carry out a project (60 credits), assessed by a dissertation.

#### Optional courses (six chosen, but at least one course must be from Group 1)

##### Group 1

- Professional skills
- Data analysis.

##### Group 2

- Data management and analytics using SAS
- Big data analytics
- Time series
- Design of experiments
- Stochastic processes
- Biostatistics
- Environmental statistics
- Financial statistics
- Statistical genetics
- Functional data analysis
- Spatial statistics
- Machine learning.

### Career prospects

Our graduates have an excellent track record of gaining employment in many sectors including medical research, the pharmaceutical industry, finance and government statistical services, while others have continued to a PhD. Our recent graduates have taken up positions as Statisticians with the Scottish Government, as Advanced Analytics Analyst at Deloitte Ireland, as Consultant at the World Bank and as Research Officer at Kenya Medical Research Institute (KEMRI).

## MEDIA & CULTURAL POLICY

Media & Cultural Policy at Glasgow is part of the leading research School of Culture & Creative Arts.

If you study with us you will benefit from our excellent links with industry; the Centre is internationally connected in the academic world and has close ties with policymakers, cultural agencies and the media and communications industries. Frequently invited speakers will provide current industry insights from across the sector.

At the same time our programmes offer you an academically engaging and rewarding experience and will equip you with a critical understanding of the landscape within which cultural and creative industries operate.

Our programmes will help prepare you for a range of management careers across the media sector, including in economics, business strategy, media policy, and intellectual property rights and marketing.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Creative Industries & Cultural Policy

**MSc:** 12 months full-time

This programme provides an interdisciplinary grounding in the key economic, cultural and policy forces shaping the development of the creative industries at global, national and local levels.

Theoretical and analytical depth is coupled with an emphasis on the realities of contemporary cultural production.

 [melanie.selfe@glasgow.ac.uk](mailto:melanie.selfe@glasgow.ac.uk)

### Programme structure

The taught element of this programme consists of six core courses and one or two optional courses of your choice. In the summer period, you will complete a research dissertation, enabling you to investigate and present a substantial and original project of personal interest. This structure allows you to develop key sector management skills and knowledge, while also providing space to tailor the programme to suit your interests and ambitions.

#### Core courses

- Creative industries and cultural policy
- Creative lives and cultural industries
- Managing innovation and creativity
- Project management
- Research methods 1 and 2.

#### Optional course/s (subject to availability)

- Business finance
- Digital transformation
- Processes of entrepreneurship and innovation
- Internationalisation of SMEs
- Intellectual property law
- Festivals
- Issues in audience management.

#### Career prospects

Whether you are seeking a management role in an established organisation or plan to pursue a more entrepreneurial path, this course will equip you with a critical understanding of the landscape within which cultural and creative industries operate, and enable you to develop the analytical skills necessary for a career in this growing sector.

At the same time, the programme offers an academically engaging and rewarding experience, allowing you to embark on policy advisory and consultancy roles or to pursue further postgraduate studies.

## Media Management

MSc: 12 months full-time



The Masters in Media Management examines the economic, managerial, legal and cultural frameworks within which media organisations and industries operate. If you are an aspiring or existing media manager, or have a strong interest in the media sector, this programme has been designed for you. It combines advanced-level media and management-related studies with a special focus on media economics and on media and cultural policy.

**✉ gillian.doyle@glasgow.ac.uk**

### Programme structure

Media management involves a taught course, followed by an individual supervised dissertation.

The taught component involves a combination of lectures, seminars and group-work sessions as well as regular presentations from senior and experienced figures in the media industry.

### Core courses

- Media economics
- Media and cultural policy
- Strategy and organisational performance
- Research methods.

### Optional courses may include:

- International business strategy
- Intellectual property law
- Issues in audience management
- Human resource management
- Financial analysis
- Entrepreneurship and innovation.

### Career prospects

Course subjects will help prepare you for a range of management careers across the media sector, including in economics, business strategy, media policy, intellectual property rights and marketing.

At the same time, the programme offers an academically engaging and rewarding experience, allowing you to embark on policy advisory and consultancy roles or to pursue further postgraduate studies.

Positions held by recent graduates include Scottish Affairs Officer, Manager Internal Communications, Product Manager, Press Officer, Broadcasting Manager and Creative Director.

### Research opportunities

We offer PhDs in the following research areas:

- Media policy
- Media and communication studies
- Creative and cultural industries
- Media management and media economics
- Social media and digital culture
- Media regulation and cultural policy in the UK and EU
- Television industry studies
- Media, journalism and sport
- Journalism studies
- Public relations and political communication.

We are a dedicated postgraduate research and teaching centre with a highly experienced team of postgraduate supervisors.

For more information, visit

[glasgow.ac.uk/schools/cca/research/ccpr/postgraduateopportunities/postgraduateresearch](http://glasgow.ac.uk/schools/cca/research/ccpr/postgraduateopportunities/postgraduateresearch)

or visit

[glasgow.ac.uk/research/opportunities/subjects/media](http://glasgow.ac.uk/research/opportunities/subjects/media)

## MEDICINE, DENTISTRY & NURSING

The School of Medicine, Dentistry & Nursing is renowned for pioneering teaching methods and superb facilities for postgraduate study.

Our innovative transformation of medicine dates back to Joseph Lister, who introduced antiseptics while he was Regius Professor of Surgery at the University in the 1860s, and to Professor Ian Donald, who developed ultrasounds in 1958.

We continue this tradition of medical excellence and innovation today, as one of the largest and most prestigious medical schools in Europe, with world-leading clinical research across cancer and cardiovascular, infectious and inflammatory diseases.

If you study with us, you can benefit from our outstanding facilities and pioneering teaching methods, including the best in clinical experience. The interface with the NHS partners is critical to our research strategy and comprises a key element for translating basic science discoveries into clinical practice with clear societal benefits.

 For information on how to apply,  
see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Advanced Lymphoedema Management

PgCert: 12 months part-time

This programme will provide the advancing healthcare professional wishing to study at Masters level with the opportunity to learn the theory and practice of advanced skills in the management of complex lymphoedema, including the Casley-Smith technique of Manual Lymphatic Drainage.

**✉ mvls-lymphoedema@glasgow.ac.uk**

### Programme structure

Managing complex lymphoedema (40 credits) and Lymphoedema advanced practice (20 credits) combine to give the Postgraduate Certificate in Lymphoedema Management.

### Managing complex lymphoedema

This course gives the advancing healthcare professional wishing to study at Masters level an opportunity to learn the advanced skills and knowledge required to manage patients with complex lymphoedema. The course will equip you with the necessary theory underpinning these skills, explore the evidence base and facilitate development of decision-making skills at an advanced level. Learning of theory is consolidated with workplace and online learning to develop the skills of an advancing practitioner in this field.

### Lymphoedema advanced practice

This course gives the advancing healthcare professional, wishing to study at Masters level an opportunity to extend the skills and knowledge of the managing complex lymphoedema course to a range of complex lymphoedema patients in the context of the most contemporary evidence and themes. The course will facilitate the application of advanced skills in more complex situations and in the context of delivering and managing a service. It will facilitate further development of skills in analysing and synthesising clinical findings and evidence for decision-making at an advanced level. Masterclasses, seminars and workshops support further development of the skills of an advancing practitioner in this field and are consolidated with workplace and online learning.

[glasgow.ac.uk/  
schools/medicine/postgraduate](http://glasgow.ac.uk/schools/medicine/postgraduate)

## Advanced Nursing Science

**MSc:** 12 months full-time; 24 months part-time

This Masters in Advanced Nursing Science is designed for the growing number of graduate nurses wishing to work in clinical leadership or extended roles in clinical practice as nurse practitioners or consultant nurses.

**E** [mvls-advnursingsci@glasgow.ac.uk](mailto:mvls-advnursingsci@glasgow.ac.uk)

### Programme structure

This programme will be delivered via lectures, workshops and seminars and will utilise the virtual learning environment and video/digital education resources.

#### Courses

- Informing practice through evidence base
- Research approaches in healthcare
- Applying research approaches in healthcare
- Education for professional practice
- Leadership in contemporary healthcare
- Clinical issues in stroke care
- Acute and critical care
- Global health challenges
- Independent project.

#### Career prospects

Virtually all of our graduates in our parallel multi-professional programme Advanced Practice in Health Care, within one year of completion, have gained promotion within their specialism. Many remain in clinical practice and become specialists and advanced practitioners in their chosen fields.

Increasingly our graduates are returning for PhD study, to further embrace the evidence-based approaches to clinical care. Many decide that education is their career destination and return to the school to gain further expertise in a teaching role, both undergraduate and postgraduate. This programme helps to prepare clinicians in many disciplines, such as physiotherapy, for the dynamic nature of care delivery.

#### Why choose Glasgow?

- The University is ranked 1st in the UK for Nursing.
- Close involvement of NHS clinical staff in the planning and delivery of courses ensures that the programme is current and relevant.

## Advanced Practice in Health Care

**MSc (Med Sci):**

12 months full-time; 24 months part-time

**PgDip:**

9 months full-time; 18 months part-time

**PgCert:**

5 months full-time; 10 months part-time

This Masters in Advanced Practice in Health Care is the ideal healthcare degree, designed for the growing number of graduate nurses wishing to work in clinical leadership or extended roles in clinical practice as nurse practitioners or consultant nurses.

**E** [mvls-advhealthcare@glasgow.ac.uk](mailto:mvls-advhealthcare@glasgow.ac.uk)

### Programme structure

#### Continuing professional development

Each course can be taken as a standalone continuing professional development course.

This programme in Advanced Practice in Health Care is made up of three components: a core course, optional courses and a dissertation.

#### Core course

- Research methods and statistics.

#### Optional courses may include:

- Informing practice through evidence base
- Research approaches in healthcare
- Applying research approaches in healthcare
- Education for professional practice
- Leadership in contemporary healthcare
- Clinical issues in stroke care
- Acute and critical care
- Global health challenges
- Independent project
- Advanced communication skills in healthcare.

#### Career prospects

This programme meets the demand for the preparation of both specialist and extended role practitioners. The themes offered link closely with the pre-registration undergraduate programme offered at the University as well as being developed in conjunction with local clinical need to address the growing number of graduate nurses looking to be educated at Masters level, namely those wishing to work in clinical leadership or extended roles in clinical practice as nurse practitioners or consultant nurses. The programme also provides a platform for students to move into the field of research, with a number of past students completing PhDs.

#### Why choose Glasgow?

- Close involvement of NHS clinical staff in the planning and delivery of courses ensures that the programme is current and relevant.
- The Healthcare degree reflects the need for tomorrow's healthcare professional to be involved in lifelong learning while being adaptive to the dynamic care environment and supporting quality care delivery.

## Child Health

**PgCert:** 12 – 24 months part-time

This programme in Child Health reflects the need for the NHS to deliver basic academic training in paediatrics to all trainees in Scotland, and to formally cover the Level 2 Framework of Competencies for Training in Paediatrics outlined by the accrediting body, the Royal College of Paediatrics & Child Health (RCPCH).

**E** [jarod.wong@glasgow.ac.uk](mailto:jarod.wong@glasgow.ac.uk)

### Programme structure

The Certificate is a mix of online and face-to-face teaching. Twenty 6-hour days of face-to-face teaching are delivered through the academic year, and these are supplemented by online lectures, formative exercises and compulsory reading. This allows a collegiate atmosphere to develop with less disruption to clinical experience. This certificate course will give the trainees 60 units of credit on completion.

The content is split into five compulsory sections:

- Public health, mental health, child protection and looked after children (LAC)
- Growth, nutrition, metabolic, gastroenterology, diabetes and endocrine
- Development, neurology and senses
- Respiratory and cardiovascular
- Infectious disease, immunology, renal, haematology, oncology, rheumatology and adolescent medicine.

A trainee must take all sections spanning a maximum of four academic years but typically over two years, although some trainees will manage to complete all sections during one academic year.

#### Career prospects

Individual training programmes may be tailored to an individual's longer-term career direction; some will follow a fairly narrow sub-specialty training programme while others seek a broad-based training in general paediatrics or general paediatrics with an interest in a sub-specialty. This will also provide paediatric trainees with suitable knowledge and skills to practise evidence-based medicine throughout their careers. As well as offering more in-depth training in specific sub-specialties, the participants will be encouraged to develop skills in problem-solving, experimental design, evaluation and critical interpretation of clinical data, literature searches, and team working. The PgCert in Child Health will lay the academic foundations on which some students may wish to pursue further study.

#### Why choose Glasgow?

- The Certificate in Child Health is run jointly by the University of Glasgow and NHS Education for Scotland.
- Scottish Deaneries have offered support to this programme, and will request that all paediatric trainees in their Level 2 Specialist Training complete this programme as part of their professional training.

## Clinical Genetics

**MSc (Med Sci):**

12 months full-time; 24 months part-time

The increasing impact of genetics in healthcare and the development of newer sophisticated technologies requires close collaboration between research scientists, clinical laboratory scientists and clinicians to deliver a high-quality service to patients. This programme has a specific focus on delivery of the clinical service to patients including risk analysis and application of modern genetic and genomic technologies in medical genetics research and in diagnostics and population screening.

**E** [med-sch-medgen-msc@glasgow.ac.uk](mailto:med-sch-medgen-msc@glasgow.ac.uk)

### Programme structure

#### Core courses

- Genetic disease in clinical practice
- Distress or disorder – reactions to a medical diagnosis
- Patient empowerment – supporting decisions relating to new diagnoses
- Case investigations in medical genetics
- Effective listening
- Clinical genomics
- Disease screening in populations
- Research project.

#### Career prospects

This programme would be beneficial for anyone with a previous MBChB or similar degree, and would facilitate a career as a Clinical Geneticist.

#### Why choose Glasgow?

- This is a fully up-to-date Clinical Genetics degree delivered by highly dedicated, multi-award-winning teaching and clinical staff of the University, with considerable input from hospital-based Regional Genetics Service clinicians and clinical scientists.
- The clinical genomics option will provide you with hands-on practice at accessing and filtering next generation sequencing data on computers to identify clinically relevant variants.

## Clinical Nutrition

**MSc (Med Sci):** 12 months full-time

This Masters programme provides health professionals with specialist knowledge and training in clinical nutrition and is designed for doctors, nurses and pharmacists. You will gain an in-depth, evidence-based knowledge of clinical nutrition and have the opportunity to undertake clinical case studies.

**[mvls-nutrition@glasgow.ac.uk](mailto:mvls-nutrition@glasgow.ac.uk)**

### Programme structure

This programme provides health professionals with in-depth, evidence-based knowledge and training in clinical nutrition and the opportunity to undertake clinical case studies discussing the clinical and nutritional issues of patients.

#### Core courses

- Food and nutrient requirements and nutrition through the lifecycle
- Digestion, absorption and nutritional metabolism
- Dietary and nutritional assessment
- Public health and eating behaviour
- Clinical nutrition specialisation
- Research proposal.

#### Clinical case studies dissertation

Subject to satisfactory results, you will progress to clinical case studies supervised by relevant clinical staff. The clinical case studies provide training in evidence-based nutritional practice for health professionals. You will assess and evaluate the medical history of patients with particular reference to nutritional needs in a detailed, in-depth manner, with reference to national and international guidelines, current literature and current treatment protocols.

#### Career prospects

Most of our graduates return to their clinical responsibilities once they have completed the programme. However, graduates have a thorough grounding in all aspects of nutrition as well as in their specialisation of clinical nutrition and therefore are able to enter employment in the food and health industries, public health, research, health promotion, food policy, the media and relief/development work in less developed countries. They are also well equipped to undertake and complete a PhD.

## Critical Care

**MSc:** 12 months full-time; 24 months part-time

This programme enables entrants to enhance their knowledge in the field of critical care, improve research and academic writing skills, and consolidate clinical experience in a simulated environment at our state-of-the-art facilities at the Queen Elizabeth University Hospital critical care floor.

**[mvls-critcare@glasgow.ac.uk](mailto:mvls-critcare@glasgow.ac.uk)**

### Programme structure

The programme is delivered at the University of Glasgow and the Queen Elizabeth University Hospital.

The MSc in Critical Care has three components:

- Three taught courses in the first semester (3 months full-time)
- Three taught courses in the second semester (3 months full-time)
- Dissertation or project report in the summer semester (6 months full-time).

#### Core courses

- Research and scientific writing
- Common conditions and injuries precipitating multi-organ failure
- Evidence-based Clinical Guideline writing, Clinical Audit and Quality
- Management of multi-organ failure
- Sepsis
- Severity Scoring, Morbidity and Mortality review, Ethics and Legal considerations, Management Principles.

#### Career prospects

This programme is open to doctors, nurses and allied health professionals and ultimately leads to a Master's degree.

The clinical components as well as the leadership qualities acquired and attained during this programme make graduates very desirable for progressive employers. The aim is for graduates to be highly effective clinical leaders in their field and place of work.

## Endodontics

**MSc (Dent Sci):** 24 months full-time

This Masters programme is designed for dental graduates who wish to develop clinical skills in endodontics.

**[mvls-endodontics@glasgow.ac.uk](mailto:mvls-endodontics@glasgow.ac.uk)**

### Programme structure

You will attend lectures and seminars and take part in tutorials and preclinical skills sessions, as well as undertaking clinical sessions under direct clinical supervision.

You will take a core course consisting of basic sciences, health sciences and research sciences, and a number of clinical courses dedicated to didactic teaching, reflective learning, clinical procedures and hands-on training in endodontics.

#### Clinical courses

##### Year 1

- Course 1. Biology of endodontic diseases
- Course 2. Principles and practice of root canal treatment
- Course 3. Interdisciplinary endodontics.

##### Year 2

- Course 4. Endodontic management of RCT problems and failure
- Course 5. Endodontics within the population and options for tooth replacement
- Research course. You will be encouraged to carry out a concise research project using existing facilities alongside our research themes.

Please note this course does not lead to MRD.

#### Career prospects

This qualification will prepare you for a clinical academic post or clinical dental practice both in the UK and overseas. You will need to sit the Overseas Registration Examination if you wish to practise dentistry in the UK.

## Forensic Toxicology

**MSc (Med Sci):** 12 months full-time

This MSc programme is designed to provide you with an in-depth working knowledge of the principles and practice of forensic toxicology. The major strengths of this programme are that you will experience the working environment of an operational ISO/IEC 17025 accredited Forensic Toxicology environment and will be taught by practising forensic toxicologists. This programme will be of particular interest to those interested in pursuing or furthering careers in forensic toxicology as court-reporting scientists, laboratory scientists or academics. This programme also enables graduates to gain experience in research before applying to a doctoral programme.

**[mvls-fortox@glasgow.ac.uk](mailto:mvls-fortox@glasgow.ac.uk)**

### Programme structure

#### Courses

- Principles of forensic toxicology
- Laboratory techniques in forensic toxicology
- Advanced instrumentation
- Case review and interpretation
- Research and laboratory management
- Project.

#### Career prospects

This programme will prepare you for a post in a forensic toxicology laboratory both in the UK and overseas. Many of our graduates find or return to forensic work or undertake a PhD.

## Genetic & Genomic Counselling (with Work Placement)

MSc (Med Sci): 24 months full-time

The MSc in Genetic & Genomic Counselling is designed to give you a working knowledge of the principles and practice of genetic counselling, which will qualify you to practise as a genetic and genomic counsellor. The programme will be delivered by University of Glasgow staff in collaboration with NHS staff from the West of Scotland Genetics Service, so that a current perspective on both laboratory diagnostics and clinical services will be obtained. This programme is accredited by the UK Genetic Counsellor Registration Board.

**[med-sch-medgen-msc@glasgow.ac.uk](mailto:med-sch-medgen-msc@glasgow.ac.uk)**

### Programme structure

Component courses are as follows:

- Genetic disease in clinical practice
- Case investigations in medical genetics
- Distress or disorder: reactions to a medical diagnosis
- Patient empowerment: supporting decisions relating to new diagnoses
- Effective listening and communication skills
- Genetic counselling in clinical practice
- Social science research methods
- Community placements 1 and 2
- Genetic counselling placements 1 and 2
- Clinical genomics
- Dissertation.

### Career prospects

The programme aims to provide you with skills to work as Genetic Counsellors. This programme is accredited by the Genetic Counsellor Registration Board (GCRB), producing graduates who are eligible for entry as a trainee genetic counsellor.

## Healthcare Chaplaincy

PgCert: 12 or 24 months part-time

This programme is the culmination of work to develop healthcare chaplaincy as a profession. It is available to healthcare chaplains and graduates considering healthcare chaplaincy as a profession. Applicants who are considering entering healthcare chaplaincy will also have to satisfy the eligibility criteria for registration with the UK Board of Healthcare Chaplaincy. The University of Glasgow has no locus in this decision.

**[mvls-healthcarechaplaincy@glasgow.ac.uk](mailto:mvls-healthcarechaplaincy@glasgow.ac.uk)**

### Programme structure

The programme is designed as a part-time programme of study days and distance learning to enable working chaplains to study and gain a professional qualification.

#### Core courses

- Providing spiritual and religious care in healthcare
- Professional practice in spiritual and religious care
- Advanced healthcare practice.

Applicants who do not meet the eligibility criteria for registration with the UK Board of Health Care Chaplaincy and meet the criteria for admission to the MSc (Med Sci) Advanced Practice in Health Care can study the courses as optional courses towards a Postgraduate Certificate in Health Care.

## Health-Professions Education / Health-Professions Education (with Research) (online)

MSc: 36 months part-time

MSc (with Research): 36 months part-time

PgDip: 24 months part-time

PgCert: 12 months part-time

This programme is designed for those who primarily identify themselves as practitioners and who want to apply educational theory and an evidence base to their specific health professions education context. The MSc HPE (with Research) programme is appropriate for those with a particular interest in learning about the design, conduct and governance of education research.

**[susan.jamieson@glasgow.ac.uk](mailto:susan.jamieson@glasgow.ac.uk)**

### Programme structure

#### Year 1

Compulsory courses

- Learning in health professions
- Teaching in health professions
- Assessment in health professions.

#### Year 2

You will choose two courses from each block of three:

- Teaching and assessment of clinical skills
- Curriculum approaches and design
- Evidence in education research
- Simulation in health professions
- Evaluation of courses and curricula
- Designing education research
- Managing the health professions curriculum
- Leadership in health professions education
- Governance and ethics in education research.

#### Year 3

- Dissertation in Health Professions Education
- Dissertation in Health Professions Education (with research).

### Career prospects

The PgCert will appeal to practising health professions educators who wish to enhance their knowledge and skills in learning.

The PgDip and the parallel MSc programmes are appropriate for healthcare professionals who are ambitious for an influential role in the management and delivery of education in either undergraduate or postgraduate phases.

## Human Nutrition

MSc (Med Sci): 12 months full-time

PgDip: 9 months full-time

Nutritional science is a subject of growing importance in many aspects of healthcare, lifestyle and industry. This programme, established since 1994 and accredited by the Association for Nutrition (AfN), provides you with an expert evidence-based approach to Human Nutrition, integrating teaching on basic sciences, clinical practice and public health applications.

**[mvls-nutrition@glasgow.ac.uk](mailto:mvls-nutrition@glasgow.ac.uk)**

### Programme structure

The programme provides a thorough grounding in the principles, practice and research of human nutrition and the opportunity to follow a successful career in the UK or overseas. You will have the knowledge and experience necessary for engaging in and contributing to current issues in the field of human nutrition. An additional research component allows the development of valuable skills for practising and interpreting nutrition research.

#### Core courses

- Food and nutrient requirements and nutrition through the lifecycle
- Digestion, absorption and nutritional metabolism
- Dietary and nutritional assessment
- Public health and eating behaviour
- Research proposal.

#### Specialisation courses

One from the following:

- Public health nutrition
- Clinical nutrition
- Obesity and weight management
- Sports and exercise nutrition.

### Career prospects

Graduates are well placed for a variety of employment opportunities in the food and health industries, public health, research, health promotion, food policy, the media and relief/development work in less developed countries. There is an expanding role for high-quality nutritionists in all these sectors. The programme is intended to meet this demand. This course provides a sound basis from which to apply for employment in advisory positions in industry or government agencies, to undertake professional training in dietetics, or for further doctoral-level research training for academic or teaching careers.

## Leadership in Health & Social Care (online)

PgCert Online Distance Learning:  
10 months part-time

This programme is delivered by a blended learning approach. You will be required to attend the University of Glasgow for one full day for each 20 credit course.

Recent government and NHS reports highlight the importance of effective leadership in ensuring that health and social care is delivered to the highest standard. This programme is aimed at professionals in health and social care wishing to develop skills in leadership. You will be encouraged to think critically about health and social care provision with a key focus on leadership, management and the economic landscape.

**[mvls-leadingcare@glasgow.ac.uk](mailto:mvls-leadingcare@glasgow.ac.uk)**

### Programme structure

The PG certificate in Leadership in Health & Social Care consists of three 20 credit modules. These courses are aligned with the MSc (Med Sci) in Advanced Practice in Health Care and can be added to other courses to complete a Masters degree.

### Career prospects

This programme meets the need to prepare professionals in both health and social care to take on leadership roles within the health and social care environment. This has now been identified as a key to the provision of high-quality health and social care. The course content affords an opportunity for participants to develop new skills in leadership and enhance existing skills. The course offers a unique opportunity to develop skills in economic costing that can lead to improved service delivery.

The involvement of leaders, both in the planning and delivery, from a variety of settings including NHS and Scottish Government ensures that the programme is current and relevant.

## Medical Genetics & Genomics

**MSc (Med Sci):** 12 months full-time (24 months part-time by special arrangement)

This innovative programme covers an exciting scientific field with rapidly growing impact at the forefront of many medical specialties. In this UK-award-winning MSc, a coordinated team of active research scientists, clinicians, clinical laboratory scientists and interactive lecturers, together provide in-depth teaching on cutting-edge medical genetic and genomic concepts and technologies. These are of increasing importance in research, laboratory diagnostics, clinical practice and population screening in the UK and overseas.

**[med-sch-medgen-msc@glasgow.ac.uk](mailto:med-sch-medgen-msc@glasgow.ac.uk)**

### Programme structure

#### Core courses

- Genetic disease: from the laboratory to the clinic
- Case investigations in medical genetics
- Disease screening in populations
- SNP assay design and validation
- Research project.

#### Optional courses may include:

- Clinical genomics
- Omic technologies for the biomedical sciences: from genomics to metabolomics
- Frontiers in cancer science.

### Career prospects

This MSc is recognised internationally with over 800 previous graduates now working in, or leading, research laboratories, clinical services and diagnostic laboratories, in the UK or overseas.

Research: About half of our graduates enter research in a variety of biomolecular disciplines, frequently undertaking PhDs.

Diagnostics: Some of our graduates enter careers with clinical genetic diagnostic services, applying molecular and cytogenetic technologies to identification of pathogenic variants in patients.

Clinical genetics: Those of our graduates with a prior medical/nursing training often utilise their new skills in careers as clinical geneticists or genetic counsellors.

## Medical Physics

**MSc:** 12 months full-time

This taught Masters is designed to provide you with an advanced programme of study in Medical Physics. It provides an understanding of the application of physics and technology to a range of disciplines within medical physics at a level appropriate for a professional physicist. We have expertise in traditional areas like ionising radiation, but also specialist sections in PET Scanning, Ophthalmology, Urology, Informatics and leading researchers in MRI.

**[mvls-medphys@glasgow.ac.uk](mailto:mvls-medphys@glasgow.ac.uk)**

### Programme structure

You will attend lectures, seminars and tutorials, take part in e-learning and undertake a research project.

#### Core courses

- Radiation physics
- Anatomy and physiology
- Statistics and experimental techniques
- Medical imaging physics
- Programming
- Scientific management
- Clinical medical imaging
- Radiotherapy
- Clinical measurement
- Research dissertation.

#### Optional courses may include:

- Advanced data analysis
- Problem solving.

### Career prospects

Career opportunities include positions in the NHS, private healthcare and equipment manufacturers. This is the course followed by the NHS trainees in Scotland, so it is highly attuned to preparing the successful student for employment.

## Molecular Pathology (blended)

**MSc:** 36 months part-time

**PgDip:** 24 months part-time

**PgCert:** 12 months part-time

Laboratory medicine is facing a challenging era of transforming landscape. For the benefits to patient care, Molecular Pathology aims to use the best of molecular knowledge, obtained by the high-impact innovations made in genetics and informatics. With a vision of creating the next generation of leaders, this programme will provide state-of-the-art training in Molecular Pathology, for pathologists, clinical scientists and those in related health professions.

**[mvls-molpath@glasgow.ac.uk](mailto:mvls-molpath@glasgow.ac.uk)**

### Programme structure

The "blended learning" approach offers the maximum flexibility for those who wish to study Molecular Pathology while on clinical duties and pathology training. With many case studies and hands-on sessions, it is easy to engage and keep motivated throughout the programme.

#### Core courses (three compulsory, 20 credit courses; one each semester)

- Fundamentals of molecular biology and genetics for histopathology
- Molecular tests and techniques for histopathology
- Multidisciplinary approaches to molecular pathology.

The core courses (PgCert) are designed to cover the intended learning outcomes within the Royal College of Pathologists curriculum for Specialty Training in Histopathology 2015.

#### Advanced courses (60 credits in total)

- Drug discovery and clinical trials for molecular pathology
- Biomarkers for precision medicine, and others.

Successful completion of core and advanced courses will lead to the award of PgDip.

#### Dissertation (60 credit research project)

Successful completion of all core and advanced courses and the dissertation will lead to the award of MSc.

## Oral & Maxillofacial Surgery

**MSc (Dent Sci):** 24 months full-time

This Masters programme is designed for dental graduates who wish to develop clinical and research skills in oral and maxillofacial surgery. It will provide you with a qualification which will enable you to extend your clinical diagnostic and treatment skills to a higher level. It will also provide you with a solid grounding in research methodologies.

**[mvls-oralmaxillofacial@glasgow.ac.uk](mailto:mvls-oralmaxillofacial@glasgow.ac.uk)**

### Programme structure

You will take a core course consisting of basic sciences, health sciences and research sciences.

The clinical component is dedicated to didactic teaching, reflective learning, clinical procedures and hands-on training in oral surgery.

### Clinical courses

- Dentoalveolar surgery
- Oro-facial infections
- Oral pathology
- Local anaesthesia, general anaesthesia, sedation
- Maxillofacial trauma
- Dentofacial deformities
- Cleft and craniofacial deformities
- Temporomandibular disorders
- Head and neck surgery
- Oral medicine.

### Research component

You will be encouraged to carry out a concise research project using existing facilities alongside our well-established research themes.

### Career prospects

Graduates are able to apply for senior house officer posts in the UK, or join a higher research programme leading to PhD qualification.

### Why choose Glasgow?

- You will have access to patients and opportunities to carry out oral surgical procedures under supervision.
- The University is well recognised as a centre of excellence for research in the fields of 3D imaging, bone bioengineering and orthognathic surgery.

## Oral Sciences

**MSc:** 12 months full-time

This programme will be of particular interest to those interested in pursuing or furthering careers in oral and dental related occupations, as well as laboratory scientists or academics.

**[mvls-oralsci@glasgow.ac.uk](mailto:mvls-oralsci@glasgow.ac.uk)**

### Programme structure

#### Core and optional courses

- Statistics 1
- Evidence-based medicine
- Translational medical research approaches
- Medical research and ethics
- Principles and critical interpretation of laboratory methodologies
- Research methods
- Research dissertation.

#### Optional

- Microbes in medicine
- Translational immunology
- Pathogenesis in oral disease
- Decontamination and infection control.

### Career prospects

Graduates are well-placed for a variety of employment opportunities in the oral and dental industries, as well as the biomedical science sectors. This course provides a sound basis from which to apply for employment in laboratory positions in industry or in academia, or to continue professional training in dentistry and oral hygiene, or for further doctoral-level research training for academic or teaching careers.

### Careers of some of our recent graduates include:

- Clinical research scientist (NHS)
- Senior clinical scientist (GlaxoSmithKline)
- Laboratory scientist (BluTest Laboratories)
- Assistant professor (Khyber Medical University)
- Associate professor (University Sains Malaysia)
- Postdoctoral research fellows (University of Glasgow)
- Scientist (Scottish Environmental Protection Agency).

### Why choose Glasgow?

- Our staff are internationally experienced researchers and academics with both clinician and science backgrounds and experts in biofilm infections, oral inflammation and infection control.
- There is a long tradition of excellence in Oral Sciences at the University of Glasgow, with pioneering research by MacFarlane, Samaranayake and Bagg, and other current Glasgow academics continue to make important contributions in the field of Oral Sciences.

## Orthodontics

**DClinDent:** 36 months full-time

This taught Doctorate provides training for graduates in orthodontics. It produces good clinicians but also good scientists, promoting high-quality clinical, academic and research standards within a supportive environment, making it an ideal place for studying orthodontics.

**[mvls-dclindent@glasgow.ac.uk](mailto:mvls-dclindent@glasgow.ac.uk)**

### Programme structure

The programme is full-time (46 weeks per year) over three years. About half of the time is spent on clinical placement, with the rest divided between academic coursework, research work and personal study.

All courses are compulsory.

#### Year 1

- Core course
- Basic orthodontic science
- Aetiology of malocclusion
- Orthodontic assessment.

#### Year 2

- Classification of malocclusion
- Orthodontic technique
- Risks of orthodontic treatment.

#### Year 3

- Multidisciplinary care
- Research practice.

### Why choose Glasgow?

- Alongside high-level clinical skills, you will gain high-quality research skills that support clinical and research practice when studying this orthodontics degree.
- You will be eligible to sit for the Membership in Orthodontics (MOOrth) at the Royal College of Surgeons of Edinburgh.

## Sports Nutrition

**PgCert:** 4 months full-time (mid-January to mid-May)

This programme, one of only a few short programmes offered in sports nutrition, will extend your knowledge and skills in sports and exercise nutrition, and basic sports science or nutritional and dietary assessment.

**[mvls-sportsnutrition@glasgow.ac.uk](mailto:mvls-sportsnutrition@glasgow.ac.uk)**

### Programme structure

This programme is comprised of two courses. It also provides you with an opportunity to present a critical in-depth review of a specialised area of the nutritional literature.

#### Core course

- Sports and exercise nutrition

#### Optional courses (one chosen)

- Introduction to sports and exercise science for nutritionists
- Dietary and nutritional assessment.

### Why choose Glasgow?

- You will also develop skills in evidence-based practice in sports nutrition.
- If you are a nutritionist or have a good background in nutrition and/or dietetics and want to extend your knowledge and skills in this area – this programme is designed for you.

**Research opportunities**

We offer opportunities for both clinical (MD/PhD/MSc) and non-clinical (PhD/MSc) research in a number of areas. We aim to facilitate interdisciplinary research in a number of themed areas of basic science, translational and clinical research programmes including:

- Dentistry (community oral health and oral sciences)
- Forensic medicine and science
- Medical and surgical sciences
- Nursing and health sciences
- Nutrition.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/schools/medicine/pgr](http://glasgow.ac.uk/schools/medicine/pgr)

‘The supportive nature of the professors and teachers on this programme has enabled me to achieve beyond my expectations. They have been very approachable in lectures and have provided close supervisory support throughout the programme. I also appreciated the guest lectures that invited key speakers/experts in their respective fields to deliver lectures. I would strongly recommend this programme to prospective students for the close-knit and supportive learning culture in the University of Glasgow.’

Daphne Lim, Singapore  
Advanced Practice in Health Care  
(MSc (Med Sci)) student

**MODERN LANGUAGES & TRANSLATION STUDIES**

Modern Languages & Translation Studies brings together expertise allowing you to think and communicate across cultures.

We have around 40 academic staff who are experts in a broad range of fields, and native language teachers in all subject areas. The school hosts a large number of research seminars featuring both academics from Glasgow and distinguished international visiting speakers.

The school's teaching is supported by the excellent state-of-the-art resources in the dedicated language library which provides a range of resources. Some 10,000 items are currently available in over 60 languages, at levels from beginner to advanced, including language materials for professionals, such as those in engineering and law.

Our students go on into the workplace well-prepared to work in a global, international environment or as preparation for further study in a wide range of related fields.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

[glasgow.ac.uk/  
schools/mlc/postgraduatestudy/  
postgraduate](http://glasgow.ac.uk/schools/mlc/postgraduatestudy/postgraduate)

**Comparative Literature**

MLitt: 12 months full-time; 24 months part-time

The Masters in Comparative Literature offers interdisciplinary study across linguistic cultures as well as academic fields. Benefiting from a strong and diverse School of Modern Languages and Cultures, you will be able to take courses in the comparative study of literatures, film, visual arts, or societies of two or more language areas OR across two or more disciplines.

 [laura.martin@glasgow.ac.uk](mailto:laura.martin@glasgow.ac.uk)

**Programme structure**

You will take two core courses (Introduction to comparative literature and comparative literature in practice), a selection of optional courses, and an independent research project (dissertation), which provides an opportunity for you to identify an area of interest for an in-depth critical exploration.

The wide offering of options from within the school as well as across the college enables you to create your own interdisciplinary Masters programme according to personal interests. These include: Literature, Gender, History, Visual Culture, Film, Creative Writing, Translation Studies, Languages, and more. The programme convener will work with you to construct a portfolio of courses according to your personal aims and objectives. Teaching is almost entirely in small-group seminars, with student assessment based on presentations, essays and individual research diaries, or on language work in language classes.

**Career prospects**

Employers welcome our graduates' abilities to 'think outside the box' in relation to cultures other than their own, as well as their ability to communicate in oral and written form in a logical, coherent, articulate and creative way.

Our graduates go into the workplace well prepared to work in a global, international environment, as well as in any field requiring sophisticated communication skills. Some common careers include publishing, editing, creative industries and teaching.

The programme also provides an excellent preparation for further study in the fields of Comparative Literature and Modern Languages and Cultures.

## Translation Studies: Translation & Professional Practice

**MSc:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time  
**PgCert:** 4 months full-time

The MSc in Translation Studies caters to the increasing need for highly skilled and specialist translators across a wide range of industries and settings. It provides an excellent platform to become a professional translator as well as to progress to doctoral level.

 [carolyn.donaldson@glasgow.ac.uk](mailto:carolyn.donaldson@glasgow.ac.uk)

### Programme structure

#### Core courses

- Translation studies in theory and practice
- Approaches to translation and the professional environment
- Advanced translation and language study (translation between English and at least one other language).

#### Optional courses may include:

- Marketing and translation across media
- Literary translation
- Subtitling film and TV
- Additional advanced translation and language study courses
- Additional language study at beginner, non-beginner, intermediate or advanced level
- Relevant undergraduate Honours courses.

#### Career prospects

You will develop the skills required to work in the industry and gain essential information about setting up as a freelance translator or working for a translation agency.

The advanced language and communication skills you will acquire are also relevant to a variety of other careers. These include:

- Marketing and public relations
- Careers in writing, including publishing or journalism
- Language teaching
- International commerce
- Government work
- The creative industries.

Graduates have taken up posts in translation agencies in the UK and overseas and work as freelance translators or for translation software companies. Others have moved into language-related careers in teaching, publishing and global commercial organisations or have gone on to study for a PhD.

## Research opportunities

We offer the following research study options:

**PhD, MPhil, MLitt, MRes.**

Our research areas include:

- Catalan
- Czech
- French
- German
- Italian
- Mandarin
- Polish
- Portuguese
- Russian
- Spanish.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/schools/mlc/postgraduatesstudy/pgresearch](http://glasgow.ac.uk/schools/mlc/postgraduatesstudy/pgresearch)

## MOLECULAR CELL & SYSTEMS BIOLOGY

Molecular Cell & Systems Biology at Glasgow houses a multidisciplinary centre of excellence conducting fundamental and translational life science research underpinning health and food security.

Our strengths include:

- Molecular genetics
- Plant science
- Protein structure and regulation
- Molecular pharmacology
- Cell engineering
- Synthetic biology
- Biological systems.

Our facilities include a protein characterisation facility which allows the study of protein structure, function stability and interactions with other macromolecules in solution as well as facilities for cell biology.

We are supported by a world-class technological base. This includes next-generation sequencing, microarrays, proteomics and metabolomics through the Sir Henry Wellcome Functional Genomics Facility and the Scottish National Centre for Metabolomics.

We provide excellent graduate training both at Masters and PhD level. Our three taught Masters programmes allow our students to work closely with members of staff carrying out internationally recognised research in their chosen field.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Biotechnology

**MSc:** 12 months full-time

This Masters in Biotechnology programme provides you with an advanced practical knowledge of biotechnology and molecular genetic technologies underpinning modern biotechnology and how they can be applied to solve real world problems. The programme offers training in a broad range of topics including environmental biotechnology, synthetic biology, plant engineering, stem cell therapies and vaccine development.

 [mvls-biotech@glasgow.ac.uk](mailto:mvls-biotech@glasgow.ac.uk)

### Programme structure

The programme is made up of teaching modules and an independent research project. Each taught module explores different aspects of biotechnology, while the project allows you to specialise the degree through a chosen field of research conducted under the guidance of your chosen academic expert. The aims of the programme are:

- to enable you to study a wide range of biotechnology topics in depth
- to allow you to benefit from leading-edge research-led teaching
- to enhance your conceptual, analytical and practical skills and to apply them to biotechnology problems
- to prepare you for leading positions in the biotechnology industry or entry into a PhD programme.

### Career prospects

This programme will prepare you for entry into a PhD programme or a research career in the pharmaceutical or biotechnology industrial sectors.

## Biotechnology & Management

**MSc:** 12 months full-time  
**PgDip:** 9 months full-time

This programme offers an expansion of our MSc in Biotechnology programme into business management and industrial biotechnology. Run jointly with the Adam Smith Business School, this programme will provide a high level of education in both disciplines.

**E:** [mvls-biotechmgt@glasgow.ac.uk](mailto:mvls-biotechmgt@glasgow.ac.uk)

### Programme structure

You will gain a sound understanding of business through the professional pathways programme run by the Adam Smith Business School, which will cover:

- Contemporary issues in human resource management
- Managing creativity and innovation
- Managing innovative change
- Marketing management
- Operations management
- Project management.

You will be taught cutting-edge biotechnology applications and undergo practical training in synthetic biotechnology, biochemical engineering and advanced polyomic technologies.

To complete your degree you will have the opportunity to undertake a flexible independent research project which can be completed as a business analysis, data evaluation or lab-based project.

### Career prospects

This programme will prepare you for a variety of careers in the pharmaceutical or biotechnology industrial sectors, both lab- and office-based. It will also prepare you for entry into industrial or academic PhD programmes.

### Why choose Glasgow?

- If you wish to improve your knowledge of modern biotechnological applications and their industrial applications through business management, this programme is designed for you.
- You will gain a sound understanding of the nature of business based on bioscience knowledge and research, opportunities for innovation and regulatory requirement constraints, intellectual property and ethical issues.

## Food Security

**MSc:** 12 months full-time

In this century, food security and the need to develop sustainable agriculture will become dominant issues affecting the whole world. The global population is projected to increase dramatically from 7 to 9 billion in the next 30 years, causing an unprecedented demand for food and increased pressure on land. The aim of this Food Security Masters is to provide you with knowledge and skills relating to the broad topic of food security, incorporating socio-economic, animal and crop aspects.

**E:** [mvls-foodsecurity@glasgow.ac.uk](mailto:mvls-foodsecurity@glasgow.ac.uk)

### Programme structure

The programme consists of three compulsory courses, up to six optional courses selected from those available, and a project.

### Core courses

- Introduction to food security
- Food security fundamentals: food of animal origin
- Food security fundamentals: crops.

### Optional courses may include:

- Role of insects in food security
- Molecular lab skills
- Global animal production
- Hygienic production of food
- Animal ethics
- Omic technologies
- Policies for sustainability and development
- Quantitative methods
- Plant genetic engineering
- Crop biotechnology applications
- Technology transfer and commercialisation.

### Career prospects

Food security is a major challenge of this century and hence there will be opportunities to develop careers in several areas. Career prospects include working in Agri-industry, research institutes, and government advisory, international advisory, media and research positions.

The breadth of knowledge, understanding and skills you will acquire in this Masters programme will help you obtain employment or undertake research in the food security sector.

### Why choose Glasgow?

- This exciting Food Security MSc is taught through collaboration between academics with world-class expertise in diverse aspects of food security.
- It discusses the demographic, social and economic issues and the challenges of achieving sustainable agriculture and presents the factors affecting food production from crops and animal sources.

## Research opportunities

Our research areas include:

- Molecular genetics
- Plant science
- Protein structure and regulation
- Molecular pharmacology
- Cell engineering
- Synthetic biology
- Biological systems.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit: [glasgow.ac.uk/researchinstitutes/biology/research](http://glasgow.ac.uk/researchinstitutes/biology/research)

# MUSIC

The University of Glasgow hosts Scotland's leading centre for music research.

Based in the UK's first UNESCO City of Music, our world-class expertise includes specialist knowledge in:

- Popular music studies
- Historical and cultural musicology
- Performance and performance studies
- Composition
- Sonic arts and music technology.

We offer a wide range of degree programmes that will suit you whether you're seeking a career in the music industry or arts and cultural sector, or if you're interested in the links music has with contemporary culture, history, creativity and the digital world.

By studying with us, you will benefit from opportunities to take work placements within Glasgow's legendary music scene, learn from award-winning professional musicians and musical scholars, and get the chance to pursue your musical interests through researching, performing, composing and exploring musical technology.

 **For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)**

## Composition & Creative Practice

**MMus:** 12 months full-time; 24 months part-time

This programme is designed to enable you to develop your compositional practice in a dynamic, rigorous and supportive creative environment. It aims to provide you with training in a range of approaches, introducing tools and techniques relevant to today's music making, and encouraging exploration, innovation and experimentation.

 [jane.stanley@glasgow.ac.uk](mailto:jane.stanley@glasgow.ac.uk)

### Programme structure

The programme is comprised of three core courses (composition, digital and creative skills, individual creative practice, and composition portfolio) as well as a series of optional courses to allow you to tailor your own bespoke structure. Options will include:

- Creating with technology
- Historically informed performance practice
- Introduction to popular music
- Sonic art aesthetics and criticism
- Music, sound and screen.

There will also be opportunities to engage with interdisciplinary study, with courses available from other subjects within the school:

- Creative industries and cultural policy (Centre for Cultural Policy Research)
- Festivals (Film & Television Studies)
- Making time: performing and thinking temporalities in the creative arts (History of Art).

Core teaching will be delivered during semesters 1 and 2. Over the summer months you will complete the core Composition Portfolio, to be submitted at the end of August.

### Career prospects

This programme will prepare you for a career in composition as well as equipping you more generally with skills necessary for a career in the cultural industries (e.g. arts administration and management). Additionally, this programme provides the necessary foundation for pursuing further research in composition in the form of a PhD.

## Historically Informed Performance Practice (in conjunction with the Royal Conservatoire of Scotland)

**MMus:** 12 months full-time; 24 months part-time

This Masters will provide you with opportunities to develop insight and experience in historical performance practice of music. The MMus, taught jointly with the Royal Conservatoire of Scotland (formerly RSAMD), combines vocal or instrumental study with performance-related academic research and an element of apprenticeship with professional ensembles.

 [john.but@glasgow.ac.uk](mailto:john.but@glasgow.ac.uk)

### Programme structure

Two routes are available: one weighted towards performance, the other towards musical research.

#### Core courses include

- Two series of seminars in historically informed performance practice
- Practical presentation
- Practical portfolio
- Dissertation
- Assessed performance recital.

You will have the opportunity to undertake workshops, rehearsals and potentially performances in collaboration with leading ensembles such as the Dunedin Consort and Concerto Caledonia; as UNESCO City of Music, Glasgow offers enormous opportunities to become involved with music making at a professional level. There is ample opportunity for ensemble playing, leading to the development of valuable musical team working and interpersonal skills.

### Career prospects

Our degree programmes open up opportunities to access or advance careers in the creative industries, whether working as a professional composer or musician, in the music industry for a record company, management company or promoter, or in the media industry. Some graduates have combined their degrees with other studies to pursue careers in areas such as law and education.

## Musicology

**MMus:** 12 months full-time; 24 months part-time

This programme provides you with intensive study in current trends in Musicology at an advanced level. It combines a broad base in musicological research, including theoretical and methodological approaches from the historiography, analysis, sociology and cultural and critical study of music.

 [david.code@glasgow.ac.uk](mailto:david.code@glasgow.ac.uk)

### Programme structure

The programme is comprised of four core courses (research skills and digital musicology, introduction to musicology, current issues in musicology and dissertation in musicology) to provide you with a firm basis in the current research and methods in musicology. These are complemented by a range of options to allow you to pursue your own specialised interests.

#### Optional courses may include:

- Historically informed performance practice
- Introduction to popular music
- Sonic arts aesthetics and criticism
- Music, sound and screen.

There will also be opportunities to engage with interdisciplinary study, with courses available from other subjects within the school:

- Creative industries and cultural policy (Centre for Cultural Policy Research)
- Festivals (Film & Television Studies)
- Making time: performing and thinking temporalities in the creative arts (History of Art).

Core teaching will be delivered during semesters 1 and 2. Over the summer months you will complete the dissertation, to be submitted at the end of August.

You have the opportunity to take a placement in a music or arts organisation (subject to availability).

### Career prospects

This programme will prepare you for a career in the music and creative industries as well as related fields, such as the media and broadcasting. Additionally, this programme provides the necessary foundation for pursuing further research in musicology in the form of a PhD.

## Sound Design & Audiovisual Practice

**MSc:** 12 months full-time; 24 months part-time

This programme provides advanced training in creative practice with sound and audiovisual technologies. The programme offers topics relevant to practising musicians, artists, and the creative industries, such as sound shaping and design, audiovisual composition, field recording, creative and experimental approaches to technology, live performance, interdisciplinary perspectives on sound, and sonic aesthetics.

 [nick.fells@glasgow.ac.uk](mailto:nick.fells@glasgow.ac.uk)

### Programme structure

The programme aims to:

- provide artistic and technical experience in working with sound as a culturally significant medium
- enable you to build your knowledge of tools and methods for manipulating sonic and audiovisual media
- enable you to design, repurpose and reconfigure technologies for creative compositional ends
- enhance your creative practice through taking an exploratory and critical approach to sonic design and composition.

### Semester 1 core courses

- Sound shaping and design
- Creating with technology.

### Semester 2 core courses

- Field recording, sound and place
- Audiovisual composition.

### Semester 2 option

(one course chosen from):

- Sonic art performance
- Sound art in dialogue
- Sonic art aesthetics and criticism
- Music, sound and screen.

Additionally you will produce an individual creative portfolio over the summer (60 credits).

### Career prospects

The attributes you will gain are particularly relevant for contemporary music, sound design and sound production, games, theatre, film and television. Many of our graduates undertake successful portfolio careers as artists and sound practitioners in their own right. The programme also offers an excellent foundation upon which to progress to PhD studies.

### Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil, MRes.

Our research areas include:

- Composition, including experimental music, intercultural aspects of composition and music and the moving image
- Historical and cultural musicology, including philosophy and aesthetics of music, music in popular culture, music and politics and music and modernism
- Sonic arts and audiovisual practice, including live electronics, spatial composition and sound design and sound art aesthetics
- Performance, including historically informed performance and contemporary music practices.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/music](http://glasgow.ac.uk/research/opportunities/subjects/music)

## NEUROSCIENCE & PSYCHOLOGY

Neuroscience & Psychology offers an excellent research environment with impressive facilities and world-leading expertise.

The subject grouping of Neuroscience & Psychology spans across the University and encompasses the Institute of Health & Wellbeing, Institute of Neuroscience & Psychology, School of Psychology and School of Education.

We strive to understand the brain at multiple levels of function, from cells to cognition. Our approaches range from molecular, cellular and systems-level investigations to the brain imaging of human behaviour and cognition.

Our Centre for Cognitive Neuroimaging (CCNi) aims to advance the understanding of the complex relationship between the brain, cognition and behaviour at multiple levels of analysis. Researchers at the centre combine multimodal brain imaging with sophisticated analysis methods to study the functioning of the human brain.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Applied Neuropsychology

**MSc (Med Sci):** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 18 months part-time

This Masters programme in Applied Neuropsychology is designed for those who have qualified in clinical psychology overseas.

 [anne.lambie@glasgow.ac.uk](mailto:anne.lambie@glasgow.ac.uk)

### Programme structure

The majority of students on this programme come to Glasgow for a full year of study. This will provide you with the opportunity to carry out a research project, which will usually be based in one of our research groups.

All our lectures are given by subject specialists, including clinical academics at the University as well as many other specialists from around the UK and occasionally internationally.

You will take a total of eight courses, arranged into blocks of teaching. Each teaching block lasts two weeks and covers two courses.

### Courses

- Context and perspectives in clinical neuropsychology
- Professional issues and research methods
- Neuroscience
- Epilepsy, seizure and sleep disorders
- Acquired brain injury and disorders of memory, attention and executive functioning
- Degenerative conditions
- Stroke and disorders of perception, language, praxis and calculation
- Paediatric neurology and neuropsychology.

Plus a research project for MSc students.

## Brain Sciences

**MSc:** 12 months full-time

Over the last two decades there has been an explosion of interest in brain science across academia, industry and the media. The integration of cognitive brain imaging with neuroscience will play a central part in discovering how the brain functions in health and disease in the 21st century.

**E:** [mvls-brainsci@glasgow.ac.uk](mailto:mvls-brainsci@glasgow.ac.uk)

### Programme structure

The programme will consist of compulsory taught courses, selected optional courses and a research project spread over 11 – 12 months.

#### Core courses and research project

- Fundamentals for neuroscience research
- Cognitive brain imaging
- The research cycle
- Current research topics in brain sciences
- Neuroscience: animal models of disease and function
- Designing a research project
- Brain sciences research project.

#### Optional courses may include:

- Introduction to Matlab for biologists
- Statistics and research design
- Neuroscience: in vivo models
- In vitro and analytical approaches in neuroscience
- Bioimaging for life sciences
- Current trends and challenges in biomedical research and health
- Technology transfer and commercialisation of biomedical research
- Neuroinflammation.

#### Career prospects

Research: MSc students can enter a research career, mainly by undertaking further postgraduate research studies towards a PhD, or by working in research laboratories in academic settings.

Industry: Other options include going on to work in a wide range of commercial sectors including the pharmaceutical or biotechnological industries and scientific publishing.

#### Why choose Glasgow?

- You will study in an institute that strives to understand the brain at multiple levels of function, from cells to cognition using approaches ranging from molecular, cellular and systems level investigations to brain imaging of human behaviour and cognition.
- Lectures will be given by staff who are international research leaders and who publish cutting-edge research at the forefront of brain sciences.

## Clinical Neuropsychology

**MSc (Med Sci):** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 18 months part-time

This Masters programme in Clinical Neuropsychology is designed for those who are eligible for registration in the UK's Health Professions Council as a clinical psychologist.

**E:** [anne.lambie@glasgow.ac.uk](mailto:anne.lambie@glasgow.ac.uk)

### Programme structure

The majority of students on this programme are clinical psychologists working in the NHS and most complete their programme working part-time over two years, although a small number complete all the teaching blocks in one year.

All our lectures are given by subject specialists, including clinical academics at the University as well as many other specialists from around the UK and occasionally internationally.

You will take a total of eight courses, arranged into blocks of teaching. Each teaching block lasts two weeks and covers two courses.

#### Courses

- Context and perspectives in clinical neuropsychology
- Professional issues and research methods
- Neuroscience
- Epilepsy, seizure and sleep disorders
- Acquired brain injury and disorders of memory, attention and executive functioning
- Degenerative conditions
- Stroke and disorders of perception, language, praxis and calculation
- Paediatric neurology and neuropsychology.

Plus a research project for MSc students.

#### Why choose Glasgow?

- The Clinical Neuropsychology programme has been developed in partnership with NHS Education for Scotland and offers specialist knowledge for clinical psychologists and other healthcare professionals working in Scotland and the rest of the UK.
- The programme is accredited by the British Psychological Society Division of Neuropsychology and provides the underpinning knowledge component of the Qualification in Clinical Neuropsychology (QiCN).

## Clinical Psychology

**DClinPsy:** 36 months full-time

This Doctorate in Clinical Psychology is collaboratively funded through NHS Education for Scotland and the University of Glasgow. You will be employed by a local NHS (Scotland) Health Board for the duration of the programme.

**E:** [dclinpsy@glasgow.ac.uk](mailto:dclinpsy@glasgow.ac.uk)

### Programme structure

The programme follows a modularised structure, which integrates academic teaching, clinical practice education and research training. This process underpins the commitment of the programme team to maximising the synergy between the clinical, academic and research components of training and reflects explicitly our commitment to an integrative educational process.

The programme consists of 16 compulsory courses.

#### Year 1

- Foundations of clinical psychology
- Foundations of clinical practice 1
- Foundations of clinical practice 2
- Foundation knowledge, understanding and skills
- Service-based evaluation project 1.

#### Year 2

- Child/family/adolescent theory and practice
- Learning disability theory and practice
- Research methods
- Research practice
- Advanced professional practice 1
- Service-based evaluation project 2.

#### Year 3

- Advanced practice 1
- Advanced practice 2
- Psychology and the law
- Research practice 2: major research project
- Advanced professional practice 2.

### Career prospects

Clinical psychologists have a demanding role working with a wide range of clients, in a variety of health and social care settings, to reduce psychological distress and to enhance and promote psychological wellbeing. This programme produces fit-for-purpose NHS practitioners.

#### Why choose Glasgow?

- In common with most clinical psychology programmes, the cognitive behavioural approach to psychotherapy is dominant but there is also a substantial teaching input based upon other psychotherapeutic approaches.
- The programme covers a wide geographical area, including Ayrshire and Arran, Greater Glasgow and Clyde, Highland and Lanarkshire, and is varied in terms of rural, urban and inner city populations.

## Psychological Science (conversion)

**MSc:** 12 months full-time

The Masters in Psychological Science (conversion) is designed to provide a broad and critical awareness of psychological theory and practice. We have particular expertise in quantitative methods, and our course would particularly suit those from a Science background. There will be the possibility for you to specialise in Cognitive Neuroscience or Clinical Psychology in their choice of optional courses. In addition, graduates from the MSc will have a range of intellectual and practical skills, including initiative, self-reliance and critical ability, which are readily adaptable to the needs of the labour market.

**E:** [maxine.swingler@glasgow.ac.uk](mailto:maxine.swingler@glasgow.ac.uk)

### Programme structure

Modes of delivery include lectures, seminars, small group teaching and research projects.

#### Core courses

- Cognitive psychology
- Human development
- Individual differences
- Physiological psychology
- Research methods
- Social psychology
- Research project.

#### Optional courses (three chosen from over 20 options), for example:

- Atypical development
- Cognitive neuroscience: insights into brain plasticity
- Forensic
- Psychology of biology and mental disorders.

### Career prospects

Graduates of this programme may go on to further academic training and pursue a PhD. In addition to the academic benefits of this programme, this MSc will be attractive to a wider job market, to those who wish to acquire brain imaging techniques and have the academic experience of working within a high-quality research environment. The MSc will also prepare those with undergraduate Neuroscience degrees who wish to become academic scientists.

### Accreditation

The MSc Psychological Science (conversion) is accredited by the British Psychological Society.

#### Why choose Glasgow?

- The school is consistently ranked among the top 10 in the UK and top 5 in Scotland, recently achieving 2nd in Scotland and 4th in the UK (Guardian University Guide 2017).
- With a top 10 ranking in the UK (Complete University Guide 2018), the school continues to meet student expectations, combining both teaching excellence and a supportive learning environment.

## Psychological Studies (conversion)

**MSc:** 12 months full-time

This British Psychological Society (BPS) accredited conversion programme is designed to provide you with a broad and critical awareness of psychological theory and practice. You will be provided with opportunities which allow you to focus on aspects of psychology with particular relevance to your own experience and interests.

**✉ georgina.wardle@glasgow.ac.uk**

### Programme structure

You will take eight core and two optional courses, followed by a research project/dissertation. Additional programme elements include attendance at project sessions designed to support you in your dissertation throughout.

#### Core courses

- Cognitive psychology
- Conceptual and historical issues in psychology
- Developmental psychology
- Individual differences
- Physiological psychology
- Research methods 1
- Research methods 2
- Social psychology.

#### Optional courses may include:

- Advanced qualitative methods
- Atypical development
- Clinical health psychology
- Current issues in psychology
- Educational psychology
- Perception and visual cognition
- Professional skills.

#### Career prospects

As this programme is accredited by the British Psychological Society, successful graduates from the programme are eligible for the Graduate Basis for Chartered Membership of the Society (GBC). Our graduates have successfully progressed to further professional training in the field of psychology. Graduate final destinations after completing further mandatory study include clinical, educational and counselling psychologists, and research associate.

## Psychology (conversion) (online)

**MSc Online Distance Learning:** 36 months part-time

The Masters in Psychology (conversion) (online) is designed to provide a broad and critical awareness of psychological theory and practice. Graduates will have a range of intellectual and practical skills, including initiative, self-reliance and critical ability, which are readily adaptable to the needs of the labour market.

**✉ margaret.s.martin@glasgow.ac.uk**

### Programme structure

Modes of delivery include online lectures and seminars. You will undertake an online practical portfolio and research projects including a dissertation.

#### Core courses

- Cognitive psychology
- Conceptual and historical issues in psychology
- Human development
- Individual differences
- Physiological psychology
- Research methods
- Social psychology
- Research project (dissertation).

#### Optional courses (two chosen)

- Atypical development
- Applied qualitative methods
- Clinical health
- Counselling
- Current issues
- Educational psychology
- Forensic psychology.

#### Career prospects

This MSc can function as both a feeder for a PhD and also as an industry-focused qualification. Graduates of this programme may go on to further academic training and pursue a PhD.

## Research Methods of Psychological Science

**MSc:** 12 months full-time

This Masters in Research Methods of Psychological Science will provide you with both theoretical instruction and practical experience in the methods appropriate for scientific research in psychology.

**✉ martin.lages@glasgow.ac.uk**

### Programme structure

Modes of delivery of the MSc in Research Methods of Psychological Science include lectures, seminars and tutorials and lab work.

#### Core courses

- The research cycle
- Introduction to Matlab programming
- Professional skills
- Research methods in cognitive science
- Statistics and research design
- Qualitative methods.

#### Optional courses (one chosen)

- Cognitive brain imaging
- Computational neuroscience
- Formal models and quantitative methods
- Psychology of language
- Sleep and circadian timing
- Visual perception and cognition.

You will also attend Scottish universities' psychology postgraduate meetings, research seminars and journal clubs.

#### Career prospects

As this programme meets the requirements of the ESRC, successful graduates from the programme are eligible for +3 ESRC PhD studentships. The majority of our graduates have obtained PhD funding or secured a research or teaching position. Others have opted for further professional training in specialised fields of psychology. Some graduates have used the qualification and skills to advance in their current employment.

Graduates of this programme have gone on to positions such as Assistant Psychologist at NHS.

## Research opportunities

We offer the following research study areas:

PhD, MSc (Res).

- Non-invasive multimodal brain imaging using fMRI/MEG/EEG
- Dynamics of auditory and visual processing
- Functions of brain oscillations
- Neuroendocrine effects on social interactions
- Neuromodulation via TMS
- Spinal cord and brainstem circuits in pain
- Molecular mechanisms of synaptic transmission and plasticity
- Neural control of respiration
- Schizophrenia
- Spinal cord injury
- Rett syndrome
- Imaging in acute stroke
- Stroke clinical trial and design
- Stem cells as treatment for stroke
- Experimental stroke
- Cortical circuits mediating perception and memory
- Circadian rhythms
- Experimental psychology
- Cognitive neuroscience
- Language/communication and perception.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/neuroscience](http://glasgow.ac.uk/research/opportunities/subjects/neuroscience) or [glasgow.ac.uk/research/opportunities/subjects/psychology](http://glasgow.ac.uk/research/opportunities/subjects/psychology)

# PHILOSOPHY

Philosophy at Glasgow has an illustrious history of original thinkers going against the grain of orthodoxy.

Our research expertise spans a wide range of disciplines including:

- Epistemology
- History of analytic philosophy
- History of Scottish Enlightenment
- Logic, language and mathematics
- Metaphysics
- Moral and political philosophy
- Philosophy of mind and perception.

Our research-driven programmes will help prepare you for PhD study or a career in the public or private sectors. You will benefit from an extraordinary amount of staff time and personalised attention and are encouraged to attend and participate in research seminars, workshops and conferences.

By choosing to study a philosophy degree at Glasgow you will be following in the footsteps of past professors, who include such giants of empiricism as Adam Smith and Thomas Reid.

 **For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)**

[glasgow.ac.uk/  
subjects/philosophy/postgraduate](http://glasgow.ac.uk/subjects/philosophy/postgraduate)

## Philosophy (MSc)

**MSc:** 12 months full-time; 24 months part-time

Our Philosophy MSc offers you the opportunity to work closely with our staff in courses based upon their own expertise and current research. It will introduce you to the cutting edge of recent developments in analytic philosophy, from the practical and applied, to the most theoretical end of the subject.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

The degree consists of a choice of four semester-length courses across a range of philosophical topics, all driven by the cutting-edge research of our professors and lecturers. There is also a 10,000 – 15,000 word dissertation to be completed on a topic of your choice, supported by an expert supervisor over the summer.

We always offer the following courses:

- Metaphysics A (semester 1) and B (semester 2)
- Philosophy of language A (semester 1) and B (semester 2)
- Political philosophy A (semester 1) and B (semester 2)
- Ethics A (semester 1) and B (semester 2)
- Philosophy of mind A (semester 1) and B (semester 2).

You may either choose two topics and complete both semester-length courses in that topic (e.g. Metaphysics A and B and Philosophy of Language A and B) or choose semester-length courses in several topics (e.g. Ethics A and B, Philosophy of Mind A and Political Philosophy B).

### Career prospects

Philosophy students at Glasgow receive rigorous and personalised training in problem-solving skills, writing skills, presentation and research skills.

All these skills are widely applicable and recognised to be exceptionally valuable in a wide range of careers, including journalism, teaching, the civil service, local government, business, publishing, law and the arts.

This degree also provides an exceptional foundation for philosophical research at doctoral level.

## Philosophy (MLitt)

**MLitt:** 12 months full-time; 24 months part-time

This Masters is especially designed for those who don't already have a Philosophy degree. It will provide you with an in-depth knowledge of analytic philosophy, for instance, moral and political philosophy, the history of philosophy, philosophy of the mind and philosophy of mathematics and language. The MLitt is also exceptional in providing a fast-track route into a PhD in Philosophy.

 [humanities-pg@glasgow.ac.uk](mailto:humanities-pg@glasgow.ac.uk)

### Programme structure

The Philosophy MLitt has three components:

1. Introduction to analytic philosophy (40 credits)
2. A choice of four from a long list of courses including:
  - Aesthetics: philosophical questions about art and beauty
  - Origins of analytic philosophy including Russell and Wittgenstein
  - Philosophy of the Scottish Enlightenment including Hume and Reid
  - Philosophy of mind: consciousness, emotions, pain and pleasure
  - Moral philosophy: philosophical questions about value and well being
  - Political philosophy: philosophical questions about justice and the state
  - Metaphysics including existence, natural laws and the nature of time
  - Philosophy of language including meaning, translation and truth
  - Philosophy of mathematics: the nature and existence of numbers and sets.
3. A dissertation on a topic of your choice guided by individual support from an expert supervisor (60 credits).

### Career prospects

Philosophy students at Glasgow receive rigorous and personalised training in problem-solving skills, writing skills, presentation and research skills. All these skills are widely applicable and recognised to be exceptionally valuable in a wide range of careers, including journalism, teaching, the Civil Service, local government, business, publishing, law and the arts. You will also be well equipped to carry on to a further degree in philosophy such as a PhD.

## Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil.

Our research areas include:

- Aesthetics
- Anglo-American philosophy (including history of analytic philosophy)
- Ethics
- Epistemology
- History of early modern philosophy
- Logic and philosophy of logic
- Metaphysics
- Philosophy of language
- Philosophy of mathematics
- Philosophy of mind
- Philosophy of perception
- Political philosophy.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/philosophy](http://glasgow.ac.uk/research/opportunities/subjects/philosophy)

# PHYSICS & ASTRONOMY

Glasgow is one of the UK's leading centres for cutting-edge research and degree programmes in physics and astronomy.

In recent years our research has been recognised by the UK Government's Research Assessment Exercise and receives consistently high levels of funding. You will benefit from the world-leading expertise of our staff, which has earned them both national and international honours.

Glasgow's Institute for Gravitational Research was recently at the centre of a truly global research discovery which detected gravitational waves coming from two black holes, confirming Einstein's theory of general relativity more than 100 years after his original prediction.

Other areas of expertise in which Glasgow excels include:

- Astronomy and astrophysics
- Nuclear physics
- Optics
- Particle physics
- Quantum theory.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Astrophysics

**MSc:** 12 months full-time

The Masters in Astrophysics gives you an understanding of the principles and methods of modern astrophysics at a level appropriate for a professional physicist.

 [pgadmissions@gla.ac.uk](mailto:pgadmissions@gla.ac.uk)

### Programme structure

Modes of delivery of the MSc in Astrophysics include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Advanced data analysis
- General relativity and gravitation (alternate years, starting 2018 – 19)
- Gravitational wave detection
- Plasma theory and diagnostics (alternate years, starting 2019 – 20)
- Pulsars and supernovae (alternate years, starting 2018 – 19)
- Research skills
- Statistical astronomy (alternate years, starting 2019 – 20)
- The Sun's atmosphere
- Extended project.

#### Optional courses may include:

- Advanced electromagnetic theory
- Applied optics
- Circumstellar matter (alternate years, starting 2019 – 20)
- Cosmology (alternate years, starting 2018 – 19)
- Dynamics, electrodynamics and relativity
- Exploring planetary systems (alternate years, starting 2018 – 19)
- Galaxies (alternate years, starting 2019 – 20)
- Gravitational wave detection
- Instruments for optical and radio astronomy (alternate years, starting 2018 – 19)
- Statistical mechanics
- Stellar astrophysics (alternate years, starting 2019 – 20).

#### Career prospects

Career opportunities include academic research in universities, research institutes, observatories and laboratory facilities; industrial research in a wide range of fields including energy and the environmental sector, IT and semiconductors, optics and lasers, materials science, telecommunications, engineering; banking and commerce; higher education.

## Physics: Advanced Materials

**MSc:** 12 months full-time

The Masters in Physics: Advanced Materials provides an understanding of the principles and methods of modern physics, with particular emphasis on their application to global interdisciplinary challenges in the area of advanced materials and at a level appropriate for a professional physicist.

 [pgadmissions@gla.ac.uk](mailto:pgadmissions@gla.ac.uk)

### Programme structure

Modes of delivery of the MSc in Physics: Advanced Materials include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

The programme draws upon a wide range of advanced Masters-level courses. You will have the flexibility to tailor your choice of optional lecture courses and project work to a wide variety of specific research topics and their applications in the area of advanced materials.

#### Core courses

- Advanced data analysis
- Nano and atomic scale imaging
- Research skills
- Solid state physics
- Extended project.

#### Optional courses may include:

- Detection and analysis of ionising radiation
- Detectors and imaging
- Environmental radioactivity
- Nuclear power reactors
- Semiconductor physics
- Statistical mechanics.

#### Career prospects

Career opportunities include academic research, based in universities, research institutes, observatories and laboratory facilities; industrial research in a wide range of fields including energy and the environmental sector, IT and semiconductors, optics and lasers, materials science, telecommunications, engineering; banking and commerce; higher education.

## Physics: Energy & the Environment

**MSc:** 12 months full-time

The Masters in Physics: Energy & the Environment provides an understanding of the principles and methods of modern physics, with emphasis on their application to global challenges in sustainable energy, climate change and the environment, and at a level appropriate for a professional physicist.

 [pgadmissions@gla.ac.uk](mailto:pgadmissions@gla.ac.uk)

### Programme structure

Modes of delivery of the MSc in Physics: Energy & the Environment include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

The programme draws upon a wide range of advanced Masters-level courses. You will have the flexibility to tailor your choice of optional lecture courses and project work to a wide variety of specific research topics and their applications in the areas of energy and the environment.

#### Core courses

- Advanced data analysis
- Energy and environment
- Nuclear power reactors
- Research skills
- Extended project.

#### Optional courses may include:

- Advanced electromagnetic theory
- Detection and analysis of ionising radiation
- Detectors and imaging
- Environmental radioactivity
- Statistical mechanics.

#### Career prospects

Career opportunities include academic research, based in universities, research institutes, observatories and laboratory facilities; industrial research in a wide range of fields including energy and the environmental sector, IT and semiconductors, optics and lasers, materials science, telecommunications, engineering; banking and commerce; higher education.

## Physics: Nuclear Technology

**MSc:** 12 months full-time

The Masters in Physics: Nuclear Technology provides an understanding of the application of nuclear processes and technology to energy generation, medical physics and environmental monitoring, and at a level appropriate for a professional physicist.

 [pgadmissions@gl.a.ac.uk](mailto:pgadmissions@gl.a.ac.uk)

### Programme structure

Modes of delivery of the MSc in Physics: Nuclear Technology include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

#### Core courses

- Advanced data analysis
- Detection and analysis of ionising radiation
- Environmental radioactivity
- Imaging and detectors
- Nuclear power reactors
- Research skills
- Extended project.

#### Optional courses may include:

- Advanced electromagnetic theory
- Advanced nuclear physics
- Computational physics laboratory
- Dynamics, electrodynamics and relativity
- Energy and environment
- Medical imaging
- Nuclear and particle physics
- Relativistic quantum fields
- Statistical mechanics.

After semesters 1 and 2 there will be an extended MSc project, carried out on a specific aspect of theoretical, computational or experimental physics which has current or potential application in the areas of nuclear technology, nuclear energy, radiation detection or environmental monitoring. You will conduct this project while embedded within a particular research group – under the direct supervision of a member of academic staff.

### Career prospects

Career opportunities include academic research, based in universities, research institutes, observatories and laboratory facilities; industrial research in a wide range of fields including energy and the environmental sector, IT and semiconductors, optics and lasers, materials science, telecommunications, engineering; banking and commerce; higher education.

## Sensor and Imaging Systems

**MSc:** 12 months full-time

The Masters in Sensor and Imaging Systems focuses on the technologies and techniques that underpin a vast range of societal, research and industrial needs. It is delivered and awarded jointly by the Universities of Glasgow and Edinburgh. Sensing and sensor systems are essential for advances in research across all fields of physics, engineering and chemistry and are enhanced when multiple sensing functions are combined into arrays to enable imaging. This is an industry-focused programme.

 [pgadmissions@gl.a.ac.uk](mailto:pgadmissions@gl.a.ac.uk)

### Programme structure

Graduates receive a joint degree from the Universities of Edinburgh and Glasgow.

#### Core courses

- Circuits and systems
- Fundamentals of sensing and imaging
- Imaging and detectors
- Technology and innovation management
- Research project preparation.

#### Optional courses may include:

- Biomedical imaging techniques
- Biophysical chemistry
- Biosensors and instrumentation
- Chemical biology
- Digital signal processing
- Electronic product design and manufacture
- Electronic system design
- Entrepreneurship
- Lab-on-chip technologies
- Lasers and electro-optic systems
- Microelectronics in consumer products
- Microfabrication techniques
- Nanofabrication
- Physical techniques in action
- Waves and diffraction.

### Career prospects

Career opportunities are extensive. Sensor systems are spearheading the next wave of connectivity and intelligence for internet-connected devices, underpinning all of the new 'smart markets', e.g. grid, cities, transport and mobility, digital healthcare and big data.

You will graduate with domain-appropriate skills suitable for a range of careers in areas including renewable energy, subsea and marine technologies, defence, automotive engineering, intelligent transport, healthcare, aerospace, manufacturing and process control, consumer electronics, and environmental monitoring.

## Theoretical Physics

**MSc:** 12 months full-time

The Masters in Theoretical Physics provides an understanding of the principles and methods of modern physics, with particular emphasis on the theoretical aspects of the subject, and at a level appropriate for a professional physicist.

 [pgadmissions@gl.a.ac.uk](mailto:pgadmissions@gl.a.ac.uk)

### Programme structure

Modes of delivery of the MSc in Theoretical Physics include lectures, seminars and tutorials and allow you the opportunity to take part in lab, project and team work.

The programme draws upon a wide range of advanced Masters-level courses. You will have the flexibility to tailor your choice of optional lecture courses and project work to a wide variety of specific research topics and their applications in the area of theoretical physics.

#### Core courses

- Advanced data analysis
- Quantum information
- Quantum theory
- Research skills
- Extended project.

#### Optional courses may include:

- Advanced electromagnetic theory
- Advanced mathematical methods
- Applied optics
- Dynamics, electrodynamics and relativity
- General relativity and gravitation (alternate years, starting 2018 – 19)
- Plasma theory and diagnostics (alternate years, starting 2019 – 20)
- Relativistic quantum fields
- Statistical mechanics
- The Sun's atmosphere.

### Career prospects

Career opportunities include academic research, based in universities, research institutes, observatories and laboratory facilities; industrial research in a wide range of fields including energy and the environmental sector, IT and semiconductors, optics and lasers, materials science, telecommunications, engineering; banking and commerce; higher education.

## Research opportunities

We offer the following research study options:

PhD, MRes.

Our research areas include:

- Astronomy and astrophysics
- Experimental and theoretical particle physics
- Gravitational research
- Imaging concepts
- Materials and condensed matter physics
- Nuclear physics
- Optics
- Quantum theory.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/physicsastronomy](http://glasgow.ac.uk/research/opportunities/subjects/physicsastronomy)

# POLITICS

Glasgow has a long tradition of researching and teaching politics, dating back to when Adam Smith gave a series of lectures on justice, police, revenue and arms at the University.

Politics at Glasgow produces innovative and influential research across three main clusters:

- Comparative Politics, with an emphasis on the quality of democracy, political communication and processes of political transformation, especially in the rising powers of China and Russia. Cluster research groups include: citizens, communication and political actors; transformation.
- International Relations, especially the normative dimensions of security and EU external relations. Associated research groups include: Historic and International Theory (HINT); Glasgow Global Security Network.
- Human Rights, with a focus on the politics of protection and the gender, sexuality, rights nexus. Associated research groups include: Gender and Sexualities Forum; Glasgow Human Rights Network.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Chinese Studies

**MSc:** 12 months full-time; 24 months part-time

The programme offers an introduction to the fascinating and fast-changing dimensions of China today. It provides a broad grounding in Chinese society, economy, business, politics and culture. There is the flexibility to combine cultural and political studies with introductory or more advanced modules in Mandarin.

 [neil.munro@glasgow.ac.uk](mailto:neil.munro@glasgow.ac.uk)

### Programme structure

You will take two core and four optional courses, and submit a dissertation. The dissertation is your opportunity to explore your own specialist interest in China and to demonstrate the research and writing skills you have developed during the programme.

### Core courses

- Chinese politics and society
- Culture and tradition in modern China.

### Optional courses

The courses are structured into six pathways:

- Language and culture
- Language and business
- Governance and society
- International relations
- Human rights
- Research methods.

### Career prospects

This programme is ideal for anyone interested in pursuing a career involving China, whether in the business world, public services, the arts and media, or as preparation for further academic study through PhD study. Our alumni have also gone on to successful careers as public affairs consultants, and advertising and PR managers, as well as in secondary school education. The programme has helped graduates develop international perspective, critical thinking and writing skills, and also smoothed the path to living and working in the Far East.

## Global Security (MSc)

**MSc:** 12 months full-time; 24 months part-time

The traditional military threats which defined global security matters for the best part of the 20th century have been quickly replaced by new and re-emerging security challenges. This programme offers you the opportunity to examine many of these contemporary threats.

 [adrian.florea@glasgow.ac.uk](mailto:adrian.florea@glasgow.ac.uk)

### Programme structure

You will take four core and a selection of optional courses. You will also complete a dissertation as a piece of independent research. In addition to the general degree programme, you have the opportunity to study one of three specialised pathways.

### Core courses

- Comparative approaches to warfare and violent conflict
- International security and global politics
- Research design OR Qualitative methods
- Thematic issues in global security.

### Optional courses

You will supplement the core elements of the programme with a range of optional courses chosen from a broad list.

### Pathways

Current pathways include:

- Politics, information and security
- Social and cultural perspectives
- Strategy and defence.

### Career prospects

You can move into careers such as working with governmental and non-governmental organisations, business and international/transnational organisations. Recent graduates have gone on to work for the BBC, the United Nations, the UK armed forces, a US-based research agency and UK-based private security and risk analysis companies. Others have gone on to undertake a PhD.

## Global Security (MRes)

**MRes:** 12 months full-time; 24 months part-time

The traditional military threats which defined global security matters for the best part of the 20th century have been quickly replaced by new and re-emerging security challenges. This programme offers you the opportunity to examine many of these contemporary threats.

 [adrian.florea@glasgow.ac.uk](mailto:adrian.florea@glasgow.ac.uk)

### Programme structure

You will take five core courses and one optional course, as well as submit a dissertation.

### Core courses

- International security and global politics
- Qualitative research methods
- Quantitative data analysis
- Research design
- Thematic issues in global security.

### Optional courses may include:

- British military power since 1945
- Comparative approaches to warfare and violent conflict
- Critical perspectives on securities and vulnerabilities
- Development, postcolonialism and environment
- Ethics in global politics
- Freedom, security and justice in the European Union
- Globalisation and European integration
- Globalisation and the new security agenda in Central and Eastern Europe
- Human rights and global politics
- Insurgency and counter-insurgency, 1800 – present
- International relations theory
- Social change and social justice: activism, social movements and democracy
- Society, environment and the concept of sustainable development in post-Soviet Russia
- The European Union in international politics and development
- The global criminal economy
- The internet and civil society.

### Career prospects

The programme provides a dedicated research training pathway if you are looking to go on to doctoral study or to seek a career within a social research field.

## Human Rights & International Politics (MSc)

**MSc:** 12 months full-time; 24 months part-time

This programme offers a thorough academic analysis of one of the most salient and pressing issues in the contemporary world: the place of individual human rights in a system of international relations in which states' rights have traditionally been paramount.

**✉ katherine.allison@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses. Courses will be delivered via lectures and seminars. Some courses contain an exam. You will also submit a dissertation at the end of the programme.

#### Core courses

- Critical perspectives on human rights (Politics)
- Fundamentals of international law (Law)
- Human rights and global politics (Politics)
- Qualitative research methods OR Research design.

#### Optional courses may include:

- China's international politics
- Chinese politics and society
- Comparative public opinion
- Environmental policies and problems in China
- EU in international politics and development
- Foreign policy of the United States
- Humanitarian intervention
- International human rights law
- International organisations
- International relations and development
- International relations research
- International relations theory
- International security and strategic thought
- Internet and civil society
- Media and democracy
- Political institutions communication
- United Nations law.

#### Career prospects

Career opportunities include positions in higher education, government/foreign ministry, intergovernmental organisations, non-governmental organisations and think tanks.

## Human Rights & International Politics (MRes)

**MRes:** 12 months full-time; 24 months part-time

This ESRC-recognised research-training programme gives you a broad and rigorous grounding in the study and methodologies of one of the most salient and pressing issues in the contemporary world: the place of individual human rights in a system of international relations in which states' rights have traditionally been paramount.

**✉ katherine.allison@glasgow.ac.uk**

### Programme structure

You will take six core courses, as well as submit a dissertation. Teaching will be delivered through lectures, seminars and tutorials. You will also be able to take part in project and team work and an international study trip. Some courses contain an exam.

#### Core courses

- Critical perspectives on human rights (Politics)
- Fundamentals of international law (Law)
- Human rights and global politics (Politics)
- Qualitative research methods
- Quantitative data analysis
- Research design.

#### Career prospects

Career opportunities include positions in higher education, government/foreign ministry, intergovernmental organisations, non-governmental organisations and think tanks.

## International Relations (MSc)

**MSc:** 12 months full-time; 24 months part-time

This programme is designed for those interested in studying one of the most challenging problems our world currently faces, such as international conflict and instability, terrorism, climate change, or rapid globalisation. Building on a thorough understanding of international relations theory, you will learn how to apply and leverage methods and research design to answer the most pressing societal questions of our time.

**✉ clair.clarke@glasgow.ac.uk**

### Programme structure

You will take three core and three optional courses. You will attend lectures, seminars and tutorials and undertake independent research.

#### Core courses

- International relations research
- International relations theory
- Research design OR Quantitative data analysis OR Qualitative methods.

#### Optional courses may include:

- China's international politics
- Chinese politics and society
- Comparative public opinion
- Critical perspectives on human rights
- Environmental policies and problems in China
- EU in international politics and development
- Human rights and global politics
- Humanitarian intervention
- International organisations
- International relations and development
- International security and strategic thought
- Internet and civil society
- Media and democracy.

#### Career prospects

The programme provides you with key knowledge and analytical tools relevant to a career in a variety of settings related to international relations, such as international and domestic non-governmental organisations, international organisations such as the United Nations or the European Union, government agencies, media, think tanks, or for further academic training and research in a PhD programme.

## International Relations (MRes)

**MRes:** 12 months full-time; 24 months part-time

This ESRC-recognised research-training programme provides a broad and in-depth grounding in the study and methodologies of the most challenging problems our world currently faces, such as international conflict and instability, terrorism, climate change, or rapid globalisation. Building on a thorough understanding of international relations theory, our programme trains you in how to apply and leverage methods and research design to answer the most pressing societal questions of our time.

**✉ clair.clarke@glasgow.ac.uk**

### Programme structure

You will take five core courses and one optional course. You will attend lectures, seminars and tutorials and undertake independent research in the form of a dissertation.

#### Core courses

- International relations research
- International relations theory
- Qualitative research methods
- Quantitative data analysis
- Research design.

#### Optional courses may include:

- International relations research
- International relations theory
- Research design
- Quantitative data analysis OR Qualitative research methods.

#### Career prospects

The programme is ideal for those interested in pursuing studies at doctoral level and obtaining a PhD degree. Outside academia, the programme provides you with key knowledge and analytical tools relevant to a career in a variety of settings related to international relations, such as international and domestic non-governmental organisations, international organisations such as the United Nations or the European Union, government agencies, media, think tanks, and for further academic training and research in a PhD programme.

## Political Communication (MSc)

**MSc:** 12 months full-time; 24 months part-time  
**PgDip:** 9 months full-time

On this programme you will explore a variety of themes in areas related to mass media, politics and communication. You will seek to understand flows of information and their political consequences both domestically and internationally, across a diversity of platforms, structures, and systems.

**[ana.langer@glasgow.ac.uk](mailto:ana.langer@glasgow.ac.uk)**

### Programme structure

You will take three core and three optional courses. You will also write a dissertation on a political communication topic of your choice, under the personal supervision of a specialist member of staff.

#### Core courses

- Media and democracy
- Political institutions and communication
- Qualitative methods for social scientists OR Quantitative data analysis OR Research design.

#### Optional courses may include:

- China's international politics
- Comparative public opinion
- Crime, media and popular culture
- Critical perspectives on human rights
- Humanitarian intervention
- International organisations
- International relations research
- International security and strategic thought
- Internet and civil society
- Media and regime transformation in Central & Eastern Europe, Russia and the Former Soviet Union
- Media, security and war
- Researching audiences and the media.

#### Career prospects

Our graduates have found opportunities across the globe, for example working with political parties, campaigns, charities, NGOs, civil service, journalism, business, academia, public relations, public affairs, national or local politics, and more. They are working in careers in Scotland, the UK, and beyond. This programme also helps prepare you to go on to PhD work in the field.

## Political Communication (MRes)

**MRes:** 12 months full-time; 24 months part-time

This ESRC-recognised research-training programme gives you a broad and rigorous grounding in the study and methodologies of political communication.

**[ana.langer@glasgow.ac.uk](mailto:ana.langer@glasgow.ac.uk)**

### Programme structure

You will take five core courses and one optional course. You will also write a dissertation on a topic of your choice, under the supervision of a specialist member of staff.

#### Core courses

- Media and democracy
- Political institutions and communication
- Qualitative research methods
- Quantitative data analysis
- Research design.

#### Optional courses may include:

- China's international politics
- Comparative public opinion
- Crime, media and popular culture
- EU in international politics and development
- Human rights and global politics
- Humanitarian intervention
- International relations research
- Internet and civil society
- Media and democratisation in Central & Eastern Europe and the Former Soviet Union
- Media, war and security.

#### Career prospects

Career opportunities include positions in research organisations such as think tanks; public relations and communications in government agencies, political parties, charities and international organisations; politics and political consultancy; political journalism; media policymaking; and higher education, including doctoral studies.

## Security, Intelligence & Strategic Studies (Erasmus Mundus International Master)

**IntM:** 24 months full-time

This Erasmus Mundus Joint Master degree brings together European and international partners to provide an integrated study programme engaging with theoretical, empirical and applied approaches to security, intelligence and strategy. Studying across Europe you will be able to participate in an optional work-based placement with a practitioner organisation.

**[IMSISS@glasgow.ac.uk](mailto:IMSISS@glasgow.ac.uk)**

### Programme structure

The programme is structured around a series of mobility periods across two years where you study at the three programme universities for one academic semester each. During year 1, you will undertake a series of core courses reflecting the main themes of the programme and research methods training.

In year 2, you will choose a specialist concentration containing a range of optional courses. Also included is a fourth flexible mobility period, during which independent study (dissertation) and an optional work-based learning placement with a relevant non-academic practitioner partner are undertaken.

#### Year 1

- University of Glasgow (September – December)
- Dublin City University (January – May)
- Various locations (June – August; optional).

#### Year 2

- Charles University Prague (September – February)
- Independent study portfolio (March – August).

#### Career prospects

Graduates from this programme are prepared to pursue careers in security-related posts in government offices and public administration, international organisations, non-governmental organisations, transnational business corporations and private security and risk analysis companies. Some might also like to pursue a doctorate and an academic career.

## Research opportunities

We offer PhDs in the following research areas:

- Citizens, communication and political actors
- Gender and Sexualities Forum
- Historic and International Theory (HINT)
- Transformation.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/politics](http://glasgow.ac.uk/research/opportunities/subjects/politics)

# SOCIOLOGY

Sociology at Glasgow is defined by our shared commitment to rigorous, innovative and useful research.

Glasgow is internationally recognised for Sociology research that is informed by theory and explored through observation, experience and experiment. Key areas of expertise include:

- Crime, justice and security: work on national and global aspects of crime, criminal justice and punishment
- Inequalities: work on racism and anti-racism, disabilities, health and illness, gender and sexualities, work and the interrelationships between these issues
- Consumption and risk: work on various kinds of 'risky' behaviour, including gambling and drug use
- Theoretical and cultural research: work aimed at the development of new theoretical insight, as well as historical and comparative cultural research, around questions of kinships, families and intimacy, and critical media research.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Antiquities Trafficking & Art Crime (online)

PgCert Online Distance Learning:  
12 months part-time

This programme delves into the seedy grey market for looted and stolen cultural objects. By combining cutting-edge research from the fields of criminology, archaeology, art history, heritage studies and law, via discussion of compelling case studies, this course will allow you to explore the criminal networks that function in the area of art crime and what can be done to protect our past and our culture for the future.

 [donna.yates@glasgow.ac.uk](mailto:donna.yates@glasgow.ac.uk)

### Programme structure

You will take three courses across three semesters (includes summer teaching). During each course you will investigate and present an art or antiquities crime case study, produce a portfolio-quality 'digital artefact' and write an essay for assessment. Depending on your needs and goals, you can take one of the courses individually or all three to achieve the qualification.

### Core courses

- Antiquities trafficking
- Art crime
- Repatriation, recovery, return.

### Career prospects

This programme complements careers in the museums and heritage sector, in law enforcement and security, in related fields of law, and in fine art and provenance research, and should qualify you to proceed to a full Masters degree in archaeology, heritage studies, museums studies, art history, criminology or other related discipline.

## Criminology

MRes: 12 months full-time; 24 months part-time

This programme introduces the theoretical and conceptual resources relevant to the study of crime, criminal justice and crime policy. It provides advanced training in social research methods.

 [clair.clarke@glasgow.ac.uk](mailto:clair.clarke@glasgow.ac.uk)

### Programme structure

You will take four core and two optional courses which will provide you with in-depth knowledge of current criminological issues and refine your social research abilities. You will also apply your analytical and research skills to a specialised topic and produce a dissertation.

### Core courses

- Criminological theory in context
- Qualitative research methods
- Quantitative data analysis
- Research design.

### Optional courses may include:

- Antiquities trafficking
- Crime, media and popular culture
- Criminological perspectives on security and globalisation
- Gender, crime and criminal justice
- Punishment and in/justice
- Rehabilitation and desistance from crime
- The global criminal economy.

### Career prospects

This programme is an ideal pathway towards a PhD and a career in academia. It will also prepare you for a career in research or policy development; especially with those public agencies and voluntary organisations concerned with crime prevention and community safety.

## Criminology & Criminal Justice

MSc: 12 months full-time; 24 months part-time

PgDip: 9 months full-time; 21 months part-time

Recognising the challenge for politicians, policy makers and practitioners in the criminal justice, and criminal law fields, this programme addresses the complex problems that crime poses for contemporary societies.

 [clair.clarke@glasgow.ac.uk](mailto:clair.clarke@glasgow.ac.uk)

### Programme structure

You will take two core and four optional courses, as well as submit a dissertation on a subject of your choice.

### Core courses

- Criminological theory in context
- Research design.

### Optional courses may include:

- Antiquities trafficking
- Crime, media and popular culture
- Criminological perspectives on security and globalisation
- Gender, crime and criminal justice
- Punishment and in/justice
- Rehabilitation and desistance from crime
- The global criminal economy.

### Career prospects

You will be well equipped for a career in public, private and third sector agencies concerned with crime prevention and community safety. The programme provides an excellent professional development choice for social workers and social work managers, prison governors or officers, police officers and lawyers.

## Equality & Human Rights (MSc)

**MSc:** 12 months full-time; 24 months part-time

This programme offers a unique opportunity for you to gain knowledge about a wide range of equality issues and to think across the dimensions of inequality.

**clair.clarke@glasgow.ac.uk**

### Programme structure

You will take two core and four optional courses, as well as submit a dissertation.

#### Core courses

- Equality and human rights
- Research design.

#### Optional courses may include:

- A public social science
- Class and stratification
- Gender relations
- Improving health and social outcomes
- Racism and modernity
- Sexualities and society
- The disabling society.

#### Career prospects

This programme will provide useful background knowledge for careers in areas involving the negotiation of equality and implementation of human rights. This would include work with non-governmental organisations, equality and diversity groups, charities and government.

## Equality & Human Rights (MRes)

**MRes:** 12 months full-time; 24 months part-time

This programme examines equality and human rights in a social context, empirically and theoretically, while also providing advanced training in sociology and social science research methodology to fulfil Economic & Social Research Council (ESRC) postgraduate research training requirements.

**clair.clarke@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses and complete a dissertation.

#### Core courses

- Advanced qualitative methods
- Equality and human rights
- Qualitative methods
- Quantitative data analysis
- Research design.

#### Optional courses may include:

- A public social science
- Class and stratification
- Gender relations
- Improving health and social outcomes
- Racism and modernity
- Sexualities and society
- The disabling society.

#### Career prospects

The programme will provide you with initial expertise in equality and human rights as a foundation for a professional or research career.

## Global Migrations & Social Justice (MSc)

**MSc:** 12 months full-time; 24 months part-time

This programme provides a comprehensive introduction to understanding contemporary research on global migrations and social justice. Unique in Scotland, it addresses questions such as who moves and why, who is allowed to settle and where, what are the roles of states, institutions and civil societies in these processes. It provides advanced training in social science research methodology to fulfil Economic & Social Research Council (ESRC) postgraduate research training requirements.

**teresa.piacentini@glasgow.ac.uk**

### Programme structure

You will take three core and three optional courses as well as complete a dissertation or a practical project. Courses are delivered via lectures and seminars supported by appropriate multi-media material, such as monographs, videos, podcasts, journal articles, reports and survey data. Coursework will involve project work, workshops and field-based activities.

#### Core courses

- Global migrations: histories, structures, experiences
- Public social science for social justice
- Research design.

#### Optional courses may include:

- Access, equity, health
- Century of the refugee: refugees and statelessness in comparative perspective, 1900 – 2000
- Immigration and asylum law
- Migration, mobility and settlement: Post-Soviet migrations
- Migration, mobility and settlement: Central and East European migration to the UK and Scotland
- Racism and modernity
- Texts for diversity: language across learning for children with English as an additional language.

#### Career prospects

On completing the programme, you will be equipped to apply your learning to a wide range of opportunities, working with policymaking bodies, local and national governments, community organisations, NGOs and third sector organisations. The emphasis on applied learning makes this programme relevant to a range of professional settings where graduates may be working with asylum seekers, refugees and migrants. It will also provide the necessary foundations for further study through doctoral research.

## Global Migrations & Social Justice (MRes)

**MRes:** 12 months full-time; 24 months part-time

This programme examines global migrations and social justice by addressing questions such as who moves and why, who is allowed to settle and where, what are the roles of states, institutions and civil societies in these processes. It provides advanced training in social science research methodology to fulfil Economic & Social Research Council (ESRC) postgraduate research training requirements.

**teresa.piacentini@glasgow.ac.uk**

### Programme structure

You will take five core and one optional course as well as complete a dissertation or a practical project.

#### Core courses

- Global migrations: histories, structures, experiences
- Public social science for social justice
- Research design
- Qualitative methods
- Quantitative data analysis.

#### Optional courses may include:

- Access, equity, health
- Century of the refugee: refugees and statelessness in comparative perspective, 1900 – 2000
- Immigration and asylum law
- Migration, mobility and settlement: Post-Soviet migrations
- Migration, mobility and settlement: Central and East European migration to the UK and Scotland
- Racism and modernity
- Texts for diversity: language across learning for children with English as an additional language.

#### Career prospects

On completing the programme, you will be equipped to apply your learning to a wide range of opportunities, working with policymaking bodies, local and national governments, community organisations, NGOs and third sector organisations. The emphasis on applied learning makes this programme relevant to a range of professional settings where graduates may be working with asylum seekers, refugees and migrants. It will also provide the necessary foundations for further study through doctoral research.

## Media, Communications & International Journalism

**MSc:** 12 months full-time; 24 months part-time

This programme combines the latest in media, communications and audience theory, and research methodologies with the production and editorial skills that are required of the modern journalist. You can apply your understanding of the role of the media in society to your own journalistic output.

**catherine.happer@glasgow.ac.uk**

### Programme structure

You will take four core and two optional courses, followed by a dissertation or research project. Courses are taught through a combination of lectures and seminars.

Practical skills in news-gathering and programme-making will be developed through seminars and workshops which will focus on the delivery of journalistic articles and features across media.

Assessment is based on individual written essays and assignments, as well as practical group work and individual projects.

### Core courses

- Media, communications and journalism: Criticism and theory
- Methods of social research
- Practical news journalism
- Researching audiences and the media.

### Optional courses may include:

- China's international politics
- Crime, media and popular culture
- Global economy
- Human rights and global politics
- International security and global politics
- Media and democracy
- Political institutions communication
- The media and regime transformation in CEE, Russia and the FSU
- Young people, social inclusion and change.

### Career prospects

The programme is aimed at those interested in pursuing careers in the public domain (journalism, public relations, factual TV and radio, government bodies, voluntary organisations, museums) where skills in media and communications are essential. However, a working and critical knowledge of media and communications is increasingly desirable in areas as diverse as health, education and finance.

## Sociology

**MSc:** 12 months full-time; 24 months part-time

This programme will provide you with an advanced introduction to sociology and you will develop a critical understanding of the discipline.

**e** clair.clarke@glasgow.ac.uk

### Programme structure

You will take two core and four optional courses. You will also produce a sustained account of research in a chosen area, and conduct empirical research in that area, through a dissertation project.

#### Core courses

- Current issues in social theory
- Research design.

#### Optional courses may include:

- A public social science
- Class and stratification
- Gender relations
- Improving health and social outcomes
- Introduction to social theory for researchers
- Racism and modernity
- Sexualities and society
- The disabling society.

You will need to take at least three courses from this list. One additional course may be chosen from other subjects within the School of Social & Political Sciences.

### Career prospects

By the end of the programme, you will possess a variety of skills useful in the contemporary labour market. These include critical thinking, appreciation of the impact of institutions, including how people mediate them, and the ability to conduct research and utilise data.

## Sociology & Research Methods

**MRes:** 12 months full-time; 24 months part-time

This programme provides extensive training in social research methods and is recognised as postgraduate research training by the Economic & Social Research Council.

**e** clair.clarke@glasgow.ac.uk

### Programme structure

You will take five core and two optional courses and complete a dissertation.

#### Core courses

- Advanced qualitative methods
- Current issues in social theory
- Qualitative methods
- Quantitative data analysis
- Research design.

#### Optional courses may include:

- A public social science
- Class and stratification
- Gender relations
- Generalised linear models
- Improving health and social outcomes
- Introduction to social theory for researchers
- Racism and modernity
- Sexualities and society
- The disabling society.

### Career prospects

This programme enhances employability in a range of public and private sector organisations, which increasingly value skills in conducting and interpreting social research.

## Transnational Crime, Justice & Security

**MSc:** 12 months full-time; 24 months part-time

This programme considers pressing contemporary global issues from a criminological perspective, including organised crime, trafficking, terrorism and environmental crime.

**e** alistair.fraser@glasgow.ac.uk

### Programme structure

You will take four core and two optional courses, as well as submit a dissertation.

#### Core courses

- Criminological perspectives on security and globalisation
- Criminological theory in context
- Research design
- The global criminal economy.

#### Optional courses may include:

- Antiquities trafficking
- Crime, media and popular culture
- Gender, crime and criminal justice
- Punishment and in/justice
- Rehabilitation and desistance from crime.

### Career prospects

You will be well equipped for a career in public, private and third sector agencies concerned with crime prevention policy and strategy, especially with international and cross-border agencies.

## Research opportunities

We offer PhDs in the following research areas:

- Crime, justice and security: work on national and global aspects of crime, criminal justice and punishment
- Inequalities: work on racism and anti-racism, disabilities, health and illness, gender and sexualities, work and the interrelationships between these issues
- Consumption and risk: work on various kinds of 'risky' behaviour, including gambling and drug use.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/sociology](http://glasgow.ac.uk/research/opportunities/subjects/sociology)

‘The unique programme in transnational crime, the beautiful campus and also the amount of international students all attracted me to Glasgow. I wanted to study somewhere that had a campus culture, unions and plenty of societies in a close-knit environment. I chose this programme because of the global component of studying criminology and the small seminar groups which allow for rich discussion.’

Kevin, Germany

Transnational Crime, Justice & Security (MSc) graduate

## THEATRE STUDIES

Glasgow is an internationally recognised centre of excellence for the teaching, practice and research of Theatre Studies.

We make use of Glasgow's fantastic cultural resources, such as its theatres and touring companies, film and theatre venues, and creative organisations. On campus, our facilities include a theatre, cinema, video editing suite and a performance studio for students.

Our teaching methods combine theoretical, historical and practical approaches with the benefits of these excellent facilities. If you study with us, you will be taught in small seminar groups and supported to develop critical and creative skills that prepare you for a wide variety of careers.

It's no surprise that Glasgow is ranked number 1 in Scotland by the Complete University Guide 2017.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Playwriting & Dramaturgy

MLitt: 12 months full-time; 24 months part-time

The Masters in Playwriting & Dramaturgy gives you a practical and theoretical engagement with the many forms of writing and production for theatre. The programme is designed for those wishing to develop playwriting skills and knowledge of script development and support, opening the way to many theatre roles, including dramaturgy.

 [victoria.price@glasgow.ac.uk](mailto:victoria.price@glasgow.ac.uk)

### Programme structure

Our programme is the only one in Scotland that combines playwriting with dramaturgy. You will undertake core practical playwriting courses and core dramaturgy courses before choosing to specialise in one pathway. A significant part of the programme is delivered by professional writers and dramaturges. This programme also includes the opportunity for playwrights to develop a major script, through workshops and staged readings with actors and directors.

Core teaching is followed by an independent desk- or practice-based project.

Our core courses introduce you to the foundations of both playwriting as a craft, and dramaturgy as a historical and contemporary practice. These courses will also prepare you to pursue doctoral study in the future.

### Courses include

- Playwriting
- Dramaturgy: histories and practices
- Reading and interpreting performance
- Dramaturgical work placement
- Research methods
- Independent research project.

### Career prospects

The design of the Playwriting & Dramaturgy programme is intended to develop both the practical and critical skills of students. The role of the dramaturg is becoming increasingly recognised within the theatre industries, as is the capacity of playwrights to apply their skills and knowledge to other tasks. This programme aims to equip playwrights and potential dramaturges with knowledge of other writing roles in theatre. Graduates of this programme have gone on to become commissioned playwrights, production dramaturges, theatre critics, literary advisers, doctoral students, theatre makers and academics.

[glasgow.ac.uk/  
subjects/theatre/postgraduate](http://glasgow.ac.uk/subjects/theatre/postgraduate)

## Theatre & Performance Practices

MLitt: 12 months full-time; 24 months part-time

This Masters programme engages with a range of theatre and performance practices, explored in a critically informed context. The programme encompasses practices such as contemporary devising and production dramaturgy, harnessing digital technologies for performance, writing for performance, site-specific and locational performance, autobiographical performance, physical theatre(s) and socially/politically engaged practice. You will be taught by leading academics as well as external professional practitioners.

**E** [simon.murray@glasgow.ac.uk](mailto:simon.murray@glasgow.ac.uk)

### Programme structure

The programme is designed to give you a practical and critical engagement with many forms of theatre and performance practice. You will be encouraged to develop a reflective, rigorous and critically informed approach to theatre practice, with the intention of enriching and enhancing your creative work and furthering your career as a theatre/performance practitioner.

You will take core courses and create a portfolio of optional courses according to your personal interests and perceived needs. The programme concludes with Practice as Research Project. This provides you with a degree of flexibility in relation to the focus of your advanced study. It permits further applied practice or the opportunity to undertake an in-depth written study on an area of your choice.

### Courses include

- Research methods
- Contemporary devising practices
- Independent practice
- Debating dramaturgy
- Work placement
- Practice as research project.

You can also select some courses from across the College of Arts, enabling an interdisciplinary approach.

### Career prospects

This programme is ideal for practitioners who want to develop their practice; graduates who are planning a career in theatre making; and those who want to look in more depth into aspects of theatre practice they have enjoyed and benefited from through undergraduate studies. The programme also provides an excellent foundation for PhD studies and an academic career.

## Theatre Studies

MLitt: 12 months full-time; 24 months part-time

This Masters programme engages with a wide variety of histories and practices attached to the study of theatre. It is designed to enable you to become proficient in the techniques of historical, sociological and theoretical analysis of the theatrical process, past and present. You will be taught by leading academics as well as external professional practitioners.

**E** [victoria.price@glasgow.ac.uk](mailto:victoria.price@glasgow.ac.uk)

### Programme structure

The programme is mostly comprised of optional courses, enabling you to create your own Masters programme based on your individual needs and interests.

Core teaching is delivered in two semesters, followed by an independent desk- or practice-based project. The Independent Research Project provides an opportunity for you to create a research project that allows in-depth critical exploration of an area of interest.

### Core courses

- Research methods
- Independent research project.

### Optional courses

You will undertake five optional courses which are updated each year, but may include:

- Applied theatre
- Arts criticism
- Contemporary devising practices
- Debating dramaturgy
- Documentary drama
- Exhibiting cultures
- Festivals
- Interwar cultures
- Performance theory and analysis
- Playwriting
- Shakespearean adaptations
- Space, place and performance
- Theatre archive placement
- Work placement.

By the end of this programme you will have developed knowledge of a range of issues pertinent to the study of theatre, including historical, contemporary, theoretical and practical.

### Career prospects

This programme prepares you for a wide range of careers closely connected to theatre provision and production. It also provides a good foundation for those wishing to progress to doctoral study.

## Research opportunities

We offer the following research study options:

PhD, MLitt, MPhil, MRes.

Our research areas include:

- Ecology, environment and heritage
- History and historiography
- Dramaturgy and playwriting
- Adaptation
- Intermediality and digital arts
- Scottish theatre
- Practice-based research
- Queer and gender theory
- Shakespeare and performance
- Intercultural performance
- Physical theatre and actor training
- Live art
- Curation and museology
- Autobiography
- Site-based performance
- Contemporary German and French theatre
- Temporalities and geochronology
- Theatre and the elements
- Politics and memory.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/theatre](http://glasgow.ac.uk/research/opportunities/subjects/theatre)

‘The MLitt Playwriting and Dramaturgy programme offered a challenging and exciting blend of academic knowledge and practical experience, with a work placement and a playwriting module, creating a lot of professional contacts for students.’

Pamela, UK  
Playwriting & Dramaturgy (MLitt) graduate

# THEOLOGY & RELIGIOUS STUDIES

Theology or divinity has been taught at the University since its foundation in 1451.

Theology & Religious Studies incorporates academic and vocational teaching and research across Judeao-Christian traditions (both religious and secularised), as well as Islam and other world faiths.

All of our subjects can be studied from within or without a personal faith base. If you choose to study with us, you can benefit from our multidisciplinary approach and supportive environment for learning.

Glasgow has built its reputation for excellence in traditional fields of theology such as:

- Practical theology
- Modern systematic theology
- Hermeneutics
- Church history
- Catholic moral theology
- Biblical studies.

Additionally, Glasgow has a strong profile in Islam, Sufism, religion in modern Iran, Judaism, Esoteric Buddhism, and religion in China.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Political Islam

**MSc:** 12 months full-time; 24 months part-time

This Masters degree in Political Islam has been specifically designed for those who wish to comprehend the main currents of Islamic thinking during the modern period. This will involve investigating a number of radical Islamic movements as well as alternative understandings of Islam.

 [critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

This MSc in Political Islam investigates a number of 'radical' Islamic movements such as Salafism, the Muslim Brotherhood, and the Islamic revival in Iran post-1978. At the same time, alternative understandings of Islam will be examined, including the so-called 'liberal' version, Islamic feminist thinking and contemporary manifestations of Sufism (the so-called 'mystical' side of Islam).

As the programme progresses the topics will engage with the historical Islamic tradition, so that you will appreciate the wide variety of 'Islams' that have appeared in modern times. An understanding of Islam is imperative in the contemporary period, with issues such as security, identity and immigration appearing on a daily basis in the Western media. Islam is no longer a religion that is confined to the Middle East, but needs to be understood as an integral part of British society and culture. The challenges and issues that Muslims face require urgent investigation, and this course provides the framework for you to engage with the changes that affect everyone in society.

The programme is designed for small groups that will discuss the topics in a seminar environment. There will be formal lectures and the occasional guest speaker. The basis of the programme will be textual, and will involve class/group discussions about the material provided. Core teaching is delivered in two semesters, followed by a dissertation. The project dissertation is an opportunity for you to identify an area of interest and to create a research project that allows in-depth critical exploration of this.

### Career prospects

With the current interest in Islam, this degree provides essential knowledge and skills for those involved in teaching, the civil service, government, the police and the military. The degree also provides an excellent entry into a PhD related to Islamic Studies.

## Religion, Literature & Culture

**MLitt/MTh:** 12 months full-time; 24 months part-time

This programme provides a thorough and cutting-edge exploration of classic and contemporary debates in theology and religious studies, incorporating the latest scholarship in the field.

 [critstudies-pgenquiries@glasgow.ac.uk](mailto:critstudies-pgenquiries@glasgow.ac.uk)

### Programme structure

This programme is comprised of three compulsory core courses, two optional courses, a compulsory research skills course, and a compulsory dissertation of 12,000 – 15,000 words.

The 12-month programme structure for full-time students is as follows:

### Core courses

Semester 1:

- Reason, religion and culture
- Research skills course.

Semester 2:

- Reading, religion and culture.

### Optional courses

You also take three options. You may choose from Religion and Violence, any of the other option courses being offered within the College of Arts, or directed study. You may attend a relevant Honours course to give further structure to your study.

Areas of study available in association with Honours courses (not all of which run every year) include:

- Modern Islamic thought
- Muhammad
- Modern Judaism
- Holocaust Literature
- Writing theology: creative writing as theological reflection
- Central issues in Christian theology
- Theology in the Catholic tradition
- Biblical interpretation
- Bible and culture
- Sacred texts and critical theories
- Political theologies
- Pastoral theologies
- Early, Medieval, Reformation, and Scottish Church History.

### Career prospects

As a graduate of this programme, you will be in possession of a variety of subject specific and transferable skills and graduate attributes which will equip you for a wide range of careers and for further academic study.

## Research opportunities

We offer the following research study options:

PhD, Doctorate in Practical Theology, MLitt, MPhil, MRes.

Our research areas include:

- Religion and politics
- The construction of religion as a modern category
- Religion and technology
- Mysticism and spirituality
- Religion and identity
- Scripts, scriptures and textual analysis
- Applied theology and theory of religion.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/theologyreligious](http://glasgow.ac.uk/research/opportunities/subjects/theologyreligious)

# URBAN STUDIES

Urban Studies at Glasgow is ranked top in the UK for Architecture, Built Environment and Planning (REF 2014).

We are proud that 50% of our research outputs were judged to be world-leading and 42% internationally excellent in REF 2014. Within the field of Urban Studies, research spans all aspects of social, economic and physical change in cities, and includes communities, governance, health, housing, inequalities, planning, transport and real estate.

If you choose to study Urban Studies at Glasgow, you will learn from academics considered leaders in their fields and gain vital practical knowledge for shaping places, strengthening communities and improving policymaking.

 **For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)**

## City & Regional Planning

**MSc:** 12 months full-time; 24 months part-time, up to 60 months on modular basis

This programme will deliver a highly regarded professional education in city and regional planning. It has been developed in close consultation with the relevant professional, policy and business communities and is intended to provide an intensive fast-track entry to a professional career.

 [amini.kamete@glasgow.ac.uk](mailto:amini.kamete@glasgow.ac.uk)

### Programme structure

You will take a series of core courses, choose optional courses and undertake a dissertation or a major project in planning.

The core semester 1 courses focus on planning and urban theories, principles and practices which are necessary for you to build the knowledge base required of planners. Towards the end of semester 1 you will start to develop core spatial planning skills and continue to do so in semester 2 with real-life projects, designed to build your spatial planning competencies and become a reflective practitioner.

#### Core courses

- Contemporary planning systems
- Designing places
- Development economics
- Development process
- Global cities
- Governance and markets
- Professional practices, ethics and management
- Spatial planning strategies.

#### Optional courses

- Urban design policy and practice AND a specialist urban design course
- Sustainable housing development.

#### Career prospects

As a graduate you will be in possession of an MSc degree recognised by the Royal Town Planning Institute and can develop your career as a chartered town planner. Opportunities exist in planning and development agencies and consultancies, property developers, housebuilders, local authorities, regeneration and development agencies and the civil service.

## City Planning & Real Estate Development

**MSc:** 12 months full-time; 24 months part-time, up to 60 months on modular basis

This programme will deliver a highly regarded professional education in city planning and real estate development. It has been developed in close consultation with the relevant professional, policy and business communities and is intended to provide an intensive fast-track entry to a professional career.

 [amini.kamete@glasgow.ac.uk](mailto:amini.kamete@glasgow.ac.uk)

### Programme structure

You will take a series of core courses and undertake a dissertation or a major project in planning and real estate development.

Core courses provide you with a grounding in core knowledge and skills required of planners and surveyors working within the planning and development field. Subjects covered include planning and real estate development processes, real estate economics, valuation and development appraisal and spatial planning strategies.

#### Core courses

- Contemporary planning systems
- Designing places
- Development economics
- Development process
- Global cities
- Governance and markets
- Professional practices, ethics and management
- Spatial planning strategies
- Real estate markets
- Real estate valuation and appraisal.

Courses are assessed by a mix of continuous methods to enable you to develop a suitable balance of planning and real estate development competencies. They will involve you attending lectures, seminars and tutorials and taking part in project, IT lab, field and team work.

#### Career prospects

As a graduate you will be in possession of an MSc degree recognised by the Royal Institution of Chartered Surveyors (RICS) and the Royal Town Planning Institute (RTPI). You can develop your career as a chartered town planner, chartered surveyor, or both.

## City Planning & Regeneration

**MSc:** 12 months full-time; 24 months part-time, up to 60 months on modular basis

This programme will deliver a highly regarded professional education in city planning and regeneration. It has been developed in close consultation with the relevant professional, policy and business communities and is intended to provide you with an intensive fast-track entry to a professional career.

 [amini.kamete@glasgow.ac.uk](mailto:amini.kamete@glasgow.ac.uk)

### Programme structure

You will take a series of core courses and undertake a dissertation or a major project in planning and regeneration.

The core semester 1 courses focus on planning and urban theories, principles and practices which are necessary for you to build a solid understanding of how cities, markets, institutions and planning process function. In semester 2 you will build on this knowledge base by developing core spatial planning skills and a solid grounding in regeneration. Courses will involve you attending lectures, seminars and tutorials and taking part in project, lab, field and team work.

#### Core courses

- Contemporary planning systems
- Designing places
- Development economics
- Development process
- Global cities
- Governance and markets
- Professional practices, ethics and management
- Spatial planning strategies
- Regenerating cities.

#### Career prospects

As a graduate you will be in possession of an MSc degree recognised by the Royal Town Planning Institute and can develop your career as a chartered town planner. Opportunities exist in planning and development agencies and consultancies, property developers, housebuilders, local authorities, regeneration and development agencies and the civil service.

## City Planning & Transport

**MSc:** 12 months full-time; 24 months part-time

This programme explores the economic underpinnings of urban development and transport, the processes and institutions of urban governance, and the relationships between places, urban society and transport.

**[jinhyun.hong@glasgow.ac.uk](mailto:jinhyun.hong@glasgow.ac.uk)**

### Programme structure

You will take 10 core courses and complete an independent piece of research, usually in the form of a supervised dissertation. Key courses on transport will be followed by lab sessions where practical lessons on the use of software will be given through either independent or group projects. Some courses also include field trips.

#### Core courses

- Contemporary planning systems
- Designing places
- Development economics
- Development process
- Governance and markets
- Professional practice, ethics and management
- Spatial planning strategies
- Transport planning lab
- Transport planning methods
- Transport studies.

#### Career prospects

This programme will prepare you for a successful career in planning and transport. Opportunities exist in planning and development agencies and consultancies, property developers, house builders, local authorities, regeneration and development agencies, the civil service and private transport consulting agencies.

## Housing Studies

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

This programme allows you to examine the national and international contexts for the development of housing systems, policies and practices. It provides a framework for discussing the development, financing and management of housing with an emphasis on social rented housing in the UK. If you are working or seeking to work in the social housing sector in the UK (or in a closely related field), this programme is ideal for you.

**[nigel.springers@glasgow.ac.uk](mailto:nigel.springers@glasgow.ac.uk)**

### Programme structure

The programme is structured around core and optional courses, many of which are shared with other postgraduate programmes within Urban Studies, facilitating interaction with professionals seeking qualifications in related fields. For part-time students the programme is designed assuming one day a week attendance over two years; for full-time students these two teaching days are attended over one year. Those undertaking the MSc will also need to submit a dissertation as a piece of independent research.

#### Core courses

- Foundations of housing management
- Housing contexts
- Housing businesses
- Methods of social research (MSc only)
- Professional practice ethics and management
- Scottish housing law
- Understanding housing markets.

#### Optional courses may include:

- Designing places
- Development process
- Evaluating evidence and policy
- Housing inequality and society
- International urban challenges
- Methods of social research (PgDip only)
- Regenerating cities and neighbourhoods
- Sustainable housing development.

#### Career prospects

Career opportunities exist within local government, housing associations and charities engaged in housing management practice. There are additional opportunities in the voluntary sector such as housing law, advice and campaigning. The statutory sector also has a range of housing policy roles (central and local government). The qualification is recognised throughout the UK.

## International Planning Studies

**MSc:** 12 months full-time; 24 months part-time,

up to 60 months on modular basis

This programme is a combined spatial planning degree that offers the unique opportunity to specialise in international planning. Interdisciplinary and holistic in nature, this programme develops the core urban planning knowledge and skills necessary for planning practitioners with a professional interest in global planning systems.

**[amini.kamete@glasgow.ac.uk](mailto:amini.kamete@glasgow.ac.uk)**

### Programme structure

You will take a series of core courses, choose optional courses and undertake a dissertation or a major project in international planning. There is also an opportunity to take part in an international study trip.

#### Core courses

- Contemporary planning systems
- Designing places
- Development process
- Development economics
- Global cities
- Governance and markets
- Professional practice, ethics and management
- Spatial planning strategies.

#### Optional courses may include:

- Asian cities
- International urban challenges.

#### Career prospects

Career opportunities exist in planning and development agencies and consultancies, property developers, housebuilders, local authorities, regeneration and development agencies and the civil service.

If you are interested in helping to shape the future of towns, cities and regions, this programme will provide you with an excellent base on which to build a fascinating and rewarding career.

We introduce you to key drivers of urban change, including real estate markets and governance processes. We set Scottish experience in an international context, challenging you to reconcile the social, economic and environmental aspects of sustainable urban development. We offer a practically oriented programme with professional accreditation, bringing you in direct contact with developers, investors, consultants, planners and other key actors.

## International Real Estate

**MSc:** 12 months full-time; 24 months part-time,

up to 60 months on modular basis

This programme offers you the opportunity to explore international property markets while also learning from the real estate market and practice here in the UK. Interdisciplinary and holistic in nature, this programme examines the factors that influence the pricing of real estate.

**[david.mcARTHUR@glasgow.ac.uk](mailto:david.mcARTHUR@glasgow.ac.uk)**

### Programme structure

You will take a series of core courses, choose optional courses and undertake a dissertation or a major project in international real estate. There is also an opportunity to take part in an international study trip. The real estate profession is multi-disciplinary in nature, so you will begin with lectures, seminars, tutorials and case studies in courses that provide you with an understanding of how urban economies and markets function, and the processes involved in urban development.

Towards the end of semester 1, you will start to develop core real estate skills and continue to build on this knowledge base in semester 2 by developing and applying core real estate skills in project, lab, field and team practice-based activities.

#### Core courses

- Advanced real estate valuation and appraisal
- Development economics
- Development process
- Global cities
- Governance and markets
- Professional practice, ethics and management
- Real estate finance and investment
- Real estate markets
- Real estate valuation and appraisal.

#### Optional courses may include:

- Asian cities
- International real estate analysis.

#### Career prospects

Opportunities exist in real estate agencies and consultancies, financial institutions, property developers, housebuilders, local authorities, and the civil service. There are also informal opportunities to meet people from industry at open events and recruitment presentations and we will also support you to arrange professional work placements.

## International Real Estate & Management

**MSc:** 12 months full-time; 24 months part-time, up to 60 months on modular basis

This programme provides you with a detailed understanding of the global real estate industry and modern business principles, techniques and contextual conditions. The programme is tailored for those who anticipate a career with international professional real estate service advisers or corporate real estate management.

[david.mcARTHUR@glasgow.ac.uk](mailto:david.mcARTHUR@glasgow.ac.uk)

### Programme structure

You will take a series of core courses and optional courses, and undertake a dissertation or a major project in real estate.

Core courses in semester 1 are multi-disciplinary in nature and use lectures, seminars, tutorials and case studies to focus on urban development and planning theories, principles and policies.

In semester 2, activities and assessments, field and team work, in addition to project and IT lab skills, will further develop your core real estate and management skills.

### Core courses

- Advanced real estate valuation and appraisal
- Development process
- International real estate analysis
- Managing strategic change
- Professional practice, ethics and management
- Project management
- Real estate valuation and appraisal
- Real estate markets
- Strategic real estate management.

### Optional courses may include:

- Development economics
- Marketing management
- Operations management
- Real estate finance and investment.

### Career prospects

There is a high demand for corporate real estate managers who can act on their own initiative, make decisive financial decisions, show leadership potential and adapt to changing circumstances. As a graduate of this programme, these are the kinds of attributes we would expect you to possess.

## Public & Urban Policy

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

This programme is designed for people interested in how policy decisions are made and how they impact on the real world. There is a focus on urban issues nationally and globally, and opportunities to study other significant public policy fields.

[susan.deeley@glasgow.ac.uk](mailto:susan.deeley@glasgow.ac.uk)

### Programme structure

The programme combines a mix of core courses, with a range of options offered to allow flexibility for you to develop your own interests and specialism. It is an interdisciplinary programme, delivered by academics at the cutting edge of their fields and uses a broad range of methods (lectures, seminars, projects, discussions, workshops) to provide a rich learning experience. Throughout the programme there is an emphasis on practical problems and acting 'in the real world'. This is reinforced by contributions from a range of senior, experienced practitioners and policymakers from a broad range of organisations, who enhance understanding of real world problems and solutions. It is delivered over two semesters, followed by an independent research project in which you can research a topic in more depth. All assessments are extended written assignments – there are no exams.

### Core courses

- Evidence, evaluation and policy
- Global cities
- Governance and markets
- Social science research methods
- Understanding public policy.

### Optional courses may include:

- Designing places
- Development process
- Housing inequality and society
- International real estate markets
- International urban challenges
- Regenerating cities
- Sustainable housing development
- Understanding health policy
- Urban design policy and practice.

### Career prospects

Career opportunities include working within central or local government, policy advice and development roles, or policy evaluation and assessment. Core management skills equip you for a wide range of roles across the private and public sector.

## Public Policy & Management

**MSc:** 12 months full-time; 24 months part-time

**PgDip:** 9 months full-time; 21 months part-time

This programme combines courses that examine the policy making process, policy analysis and evaluation and real world public policy challenges, with professional management courses. It aims to develop future public sector leaders who understand the organisational contexts and challenges that face governments.

[susan.deeley@glasgow.ac.uk](mailto:susan.deeley@glasgow.ac.uk)

### Programme structure

This programme combines core courses in public policy and management with a range of options, designed to allow you to develop expertise in core public policy fields. Over the summer months, you will undertake an independent research project in which you can research an issue of interest to you in more depth.

### Core courses

- Evaluation, evidence and policy
- Managing innovation and creativity
- Managing strategic change
- Methods of social research
- Project management
- Understanding public policy.

### Optional courses may include:

- Governance and markets
- International urban challenges
- Regenerating cities
- Sustainable housing development
- Understanding health policy
- Urban theory and research.

### Career prospects

Career opportunities include working within central or local government, policy advice and development roles, or policy evaluation and assessment. Core management skills equip you for a wide range of roles across the private and public sector.

## Public Policy Research

**MRes:** 12 months full-time; 24 months part-time

This programme provides you with an excellent grounding in social science research methods and theory and in contemporary public policy analytical processes. It is ideally suited to those wishing to undertake a PhD or to work in public/third or private sector organisations.

[mhairi.mackenzie@glasgow.ac.uk](mailto:mhairi.mackenzie@glasgow.ac.uk)

### Programme structure

You will take five core courses and one optional course, and complete an independent research project. Teaching is delivered through lectures and seminars, but may also include lab work, input from policy/practice experts and, in some case, UK field trips.

### Core courses

- Evidence, evaluation and policy
- Qualitative research methods
- Quantitative data analysis
- Research design
- Understanding public policy.

### Optional courses may include:

- Advanced qualitative methods
- Introduction to social theory for researchers.

Additional courses from the School of Social & Political Science or College of Social Sciences may be chosen, as approved by the programme director.

### Career prospects

The programme aims to provide a strong foundation for advanced research in public policy, in the context both of careers in the public and voluntary sectors, and especially of further studies to PhD level. You will have fully met the research training requirements of the UK Economic and Social Research Council and the Social Sciences Graduate School for doctoral students.

## Real Estate (PgCert)

**PgCert:** up to 48 months on modular basis

The programme provides you with a comprehensive and professionally-focused overview of the industry. If you are already in real estate and want to extend your knowledge and understanding of the industry through reflective and structured Continuing Professional Development (CPD) learning, this programme is for you.

**[david.mcarthur@glasgow.ac.uk](mailto:david.mcarthur@glasgow.ac.uk)**

### Programme structure

You will take four core and two optional courses. This programme is intended to provide a recognised university qualification for practitioners who wish to extend their knowledge and understanding through reflective and structured CPD learning. It is also a good first step if you want to make a start in this industry, or it may serve as a launch pad for less experienced students into the range of MSc programmes in real estate, planning and regeneration.

#### Core courses

- Development economics
- Development process
- Real estate markets
- Real estate valuation and appraisal.

#### Optional courses (two chosen)

- Professional practice, ethics and management
- Real estate finance and investment
- Strategic real estate management.

#### Career prospects

Career opportunities exist in real estate development, investment and management.

## Real Estate (MSc)

**MSc:** 12 months full-time; 24 months part-time, up to 60 months on modular basis

This programme will deliver a highly regarded professional education in real estate. It has been developed in close consultation with the relevant professional, policy and business communities and is intended to provide an intensive fast-track entry to a professional career.

**[david.mcarthur@glasgow.ac.uk](mailto:david.mcarthur@glasgow.ac.uk)**

### Programme structure

You will take a series of core courses, choose optional courses and undertake a dissertation or a major project in real estate.

The core semester 1 courses are multi-disciplinary in nature and use lectures, seminars, tutorials and case studies to focus on the urban development and planning theories, principles and policies which are necessary for you to build a thorough understanding of how urban areas and economics function. In addition, you will gain an appreciation of real estate values and apply valuation and appraisal principles and techniques in practice-based activities.

In semester 2 you will build on this knowledge base by developing core real estate skills, using project, IT lab, field and team work activities and assessments.

#### Core courses

- Advanced real estate valuation and appraisal
- Development economics
- Development process
- Global cities
- Governance and markets
- Professional practice, ethics and management
- Real estate markets
- Real estate finance and investment
- Real estate valuation and appraisal.

#### Optional courses may include:

- International real estate markets
- International corporate finance
- Strategic real estate management.

#### Career prospects

As a graduate you will be in possession of an MSc degree recognised by the Royal Institution of Chartered Surveyors (RICS) and can develop your career as a chartered surveyor.

## Real Estate & Regeneration

**MSc:** 12 months full-time; 24 months part-time, up to 60 months on modular basis

This programme delivers a highly regarded professional education in real estate and regeneration. It has been developed in close consultation with the relevant professional, policy and business communities and is intended to provide an intensive fast-track entry to a professional career.

**[david.mcarthur@glasgow.ac.uk](mailto:david.mcarthur@glasgow.ac.uk)**

### Programme structure

You will take a series of core courses and undertake a dissertation or a major project in real estate and regeneration.

The real estate profession is multi-disciplinary in nature so you will begin with a grounding in a broad base of theories and principles that will provide you with an understanding of how cities, markets, institutions and development processes function. In semester 2 you will build on this knowledge base by developing core real estate competencies and a solid grounding in regeneration processes. Courses will involve you attending lectures, seminars and tutorials and taking part in project, IT lab, field and team work.

#### Core courses

- Advanced real estate valuation and appraisal
- Development economics
- Development process
- Global cities
- Governance and markets
- Professional practice, ethics and management
- Real estate markets
- Real estate finance and investment
- Real estate valuation and appraisal
- Regenerating cities.

#### Career prospects

As a graduate you will be in possession of an MSc degree recognised by the Royal Institution of Chartered Surveyors (RICS) and can develop your career as a chartered surveyor. Opportunities exist in property developers, housebuilders, local authorities, real estate agencies and consultancies, regeneration and development agencies and the civil service.

## Spatial Planning

**PgCert:** 12 months full-time; up to 48 months part-time (on a modular basis)

This programme aims to help you acquire a broad foundation of knowledge in spatial planning, from which more detailed or specialist study can be developed, and to relate academic thinking and research at the forefront of spatial planning to your own experience, whether at work or otherwise.

**[amini.kamete@glasgow.ac.uk](mailto:amini.kamete@glasgow.ac.uk)**

### Programme structure

You will take four core courses and choose from a range of optional courses. Courses will involve you attending lectures, seminars and tutorials and taking part in project, lab, field and team work.

Core courses will provide you with an understanding of the fundamental concepts in planning and apply them to particular case studies. The key areas of spatial planning you will examine are:

- Planning systems and process
- Governance and markets policies and processes
- Spatial planning strategies.

#### Career prospects

Career opportunities include positions in local and national government and private sector consultancies in spatial planning, development management and regeneration.

## Urban Research

**MRes:** 12 months full-time; 24 months part-time

This programme will provide you with an excellent grounding in social science research methods and theory and in the theoretical and policy debates around urban space and place. It is ideally suited to those wishing to undertake a PhD or to work in public/third or private sector organisations within a research or policy role.

 [mhairi.mackenzie@glasgow.ac.uk](mailto:mhairi.mackenzie@glasgow.ac.uk)

### Programme structure

You will take five core courses and one optional course, and complete an independent research project. The majority of teaching is delivered through lectures and seminars, but may also include lab work, input from policy/practice experts and, in some cases, UK field trips.

#### Core courses

- Global cities
- International urban challenges OR Regenerating cities
- Qualitative research methods
- Quantitative data analysis
- Research design
- Urban theory and research.

#### Optional courses may include:

- Advanced qualitative methods
- Introduction to social theory for researchers.

Additional courses from the School of Social & Political Science or College of Social Sciences may be chosen, as approved by the programme director.

### Career prospects

The programme aims to provide a strong foundation for advanced research in urban studies, in the context both of careers in the public and voluntary sectors, and especially of further studies to PhD level. You will have fully met the research training requirements of the UK Economic and Social Research Council and the Social Sciences Graduate School for doctoral students.

## Urban Transport

**MSc:** 12 months full-time; 24 months part-time

This programme offers a comprehensive academic approach to a career in one of the most salient and pressing issues in contemporary urban areas: how to provide safe, inclusive, environmentally friendly and efficient transport systems. The degree is designed to ensure that you become familiar with multiple approaches to planning and managing urban transport systems. The programme will provide you with the theory and methods as well as practical knowledge to be employed in governmental organisations and private sector consultancies.

 [jinhyun.hong@glasgow.ac.uk](mailto:jinhyun.hong@glasgow.ac.uk)

### Programme structure

You will take seven core courses and one optional course. Key courses on transport will be followed by lab sessions where practical lessons on the use of highly specialised software will be given in the form of either independent or group projects.

You will be expected to submit essays and lab reports as part of your course assessment and a dissertation at the end of the programme.

#### Core courses

- Methods for social research
- Principles and application of GIS
- Project management
- Theory and principles of sustainability
- Transport planning lab
- Transport planning methods
- Transport studies.

#### Optional courses may include:

- International urban challenges
- Spatial planning strategies.

### Career prospects

Career opportunities include positions in government agencies, urban planning organisations, city governments, transport and other private consulting firms, and non-profit organisations. The practical knowledge and hands-on skills taught as a part of the programme are applicable world-wide. You will have the chance to learn about new emerging forms of transport data and analytical skills that will make you a strong candidate for jobs. These specialist skills will give you unprecedented advantage in the global and UK job market.

## Research opportunities

We offer PhDs in the following research areas:

- Housing
- Labour markets
- Systems of governance
- Health
- Crime
- Education
- Real estate
- Planning
- The environment.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/research/opportunities/subjects/urbanplanning](http://glasgow.ac.uk/research/opportunities/subjects/urbanplanning)

‘The programme gives you incredible opportunities to meet people from the industry at open events and recruitment presentations, plus it has the bonus of being professionally accredited by the RTPI, to build your future professional career as a chartered urban planner.’

Adriana, Cuba  
City & Regional Planning (MSc) graduate

# VETERINARY MEDICINE

Glasgow is a global centre for veterinary medicine excellence, attracting students, researchers and clinicians from around the world.

Our internationally accredited school provides an expert referral centre, via the Small Animal Hospital, the Weipers Centre for Equine Welfare and the Scottish Centre for Production Animal Health & Welfare for animal owners and referring practitioners throughout the UK.

Veterinary medicine research at Glasgow has had lasting impacts in the animal welfare industry and charities, global health bodies and government policymaking and a broad range of commercial industry. Key areas of research excellence include:

- Infectious disease
- Comparative medicine and biology
- Clinical veterinary science.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## Advanced Practice in Veterinary Nursing (online)

### MSc Online Distance Learning:

36 months part-time

### PgDip Online Distance Learning:

24 months part-time

### PgCert Online Distance Learning:

12 months part-time

This programme provides a framework for postgraduate study which offers Registered Veterinary Nurses (RVNs) the opportunity to advance their knowledge, improve research skills, and practise evidence-based veterinary nursing.

 [mvls-vetnurse@glasgow.ac.uk](mailto:mvls-vetnurse@glasgow.ac.uk)

### Programme structure

The MSc in Advanced Practice in Veterinary Nursing comprises three components:

#### Three core courses (year 1)

- Introduction to research and evidence-based veterinary nursing
- Clinical governance in veterinary medicine
- Developing evidence informed practice through independent learning.

#### Three optional courses (year 2)

- Promoting best practice in veterinary nursing
- Animal and veterinary ethics
- Introduction to teaching and assessment in veterinary nursing
- Introduction to statistical methods
- Introduction to veterinary business studies.

#### Dissertation (year 3)

The programme is delivered fully online using a range of learning and teaching approaches including lectures, seminars, tutorials, work-based learning and project work.

### Career prospects

This programme meets the demand for the preparation of both specialised and extended role practitioners, and will develop your knowledge, skills and confidence in order for you to pursue a career related to Advanced Practice in Veterinary Nursing, such as referral nurse, head nurse, practice manager, educator or researcher.

## Veterinary Public Health

**MVPH:** 12 months full-time; 24 or 36 months part-time

This is the only programme offering a Masters in Veterinary Public Health in Scotland and students enrol in January each year.

 [mvls-mvph@glasgow.ac.uk](mailto:mvls-mvph@glasgow.ac.uk)

### Programme structure

You will be taught through lectures, seminars and tutorials. Project work and team work will be enhanced by UK study trips.

The programme comprises six courses and a final dissertation. Each course consists of a one-week intensive component designed to familiarise you with your tutors, subject matter and peers, followed by directed reading and assessed assignments.

There is one course per month, starting in January (and finishing in June). Successful completion of the courses allows progression to the dissertation.

All courses and assignment work are taught and assessed by members of the School of Veterinary Medicine, Health Protection Scotland and City of Glasgow College.

### Core courses

- Global veterinary medicine
- Zoonoses and infectious disease
- Veterinary epidemiology: quantitative methods
- Hygienic production of food (I)
- Hygienic production of food (II)
- Veterinary epidemiology: methods in surveillance and field investigation.

### Career prospects

Graduates with the MVPH degree will be highly qualified and employable in a range of positions from industry through public health practice to government agency.

## Research opportunities

We offer PhDs in the following research areas:

- Veterinary epidemiology
- Advanced veterinary diagnostic imaging
- Equine infectious disease
- Equine, ruminant and poultry nutrition
- Veterinary microbiology
- Small animal endocrinology, nutrition and obesity
- Veterinary reproduction
- Veterinary neurology
- Veterinary oncology
- Veterinary pathology
- Veterinary public health
- Small animal cardiology.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

Examples of recent PhDs include radiographic and pathological studies of feline appendicular osteoarthritis and physical activity and sedentary behaviour in humans and pet dogs.

For more information, visit [glasgow.ac.uk/schools/vet/study/postgraduate](http://glasgow.ac.uk/schools/vet/study/postgraduate)

# WAR STUDIES

The University has taught history since 1897 and is the home of the Scottish Centre for War Studies.

The Scottish Centre for War Studies was established in 1995 to promote research in, and understanding of, war and conflict in all its aspects. It is based within the subject of History in the School of Humanities but it seeks to develop links across disciplines and encourages inter- and multi-disciplinarity. With a wide-ranging group of scholars contributing, including visitors, the Centre presents a unique opportunity to study the theory and practice of war and conflict in a wide range of aspects and settings, from the Middle Ages to the present day, from Britain and Europe to the Americas and the Near and Far East, and from causes to consequences. The Centre's term-time research seminars, which students are encouraged to attend, give scholars in one field the chance to develop insights and understandings derived from scholars in another.

 For information on how to apply, see page 30 or visit [glasgow.ac.uk/postgraduate/apply](http://glasgow.ac.uk/postgraduate/apply)

## War Studies

**MLitt:** 12 months full-time; 24 months part-time

An understanding of war, for good or ill, is of vital importance. This programme offers the opportunity to study the theory and practice of war in a wide range of aspects, from the Middle Ages to the present day, and from causes to consequences.

 [mathilde.vonbulow@glasgow.ac.uk](mailto:mathilde.vonbulow@glasgow.ac.uk),  
[cara.graham@glasgow.ac.uk](mailto:cara.graham@glasgow.ac.uk)

### Programme structure

You will spend the first semester studying the degree's intensive 60-credit core course, Theory & Reality in Western Warfare. This team-taught course will introduce you to major thinkers on warfare and allow you to explore the manner in which the practice and conduct of war have evolved. Course content is updated annually to reflect our staff's research expertise. Topics have included:

- Vegetius and 'Vegetian strategy' in medieval warfare
- The early modern 'Military Revolution'
- The Wars of the French Revolution
- 'Celtic Warfare' in Gaelic Scotland & Ireland
- Clausewitz and warfare in Europe in the 19th century
- Europe's 'small wars' of the 19th century
- The evolution of military thought from World War I to World War II
- 'Revolutionary warfare' and decolonisation.

In the second semester, you will take three optional courses which delve in greater detail into a particular aspect of the history of war and violent conflict.

### Optional courses may include:

- Chivalry and warfare in later medieval Europe, 1300 – 1450
- British Battlefields
- Modern Warfare
- The wars of decolonisation and the making of the Global Cold War
- Insurgency and counter-insurgency, 1800 – present
- Western intelligence in an age of terror.

You will complete the programme by writing a dissertation based on your own research. This requires you to engage in original research guided by an expert in the field.

### Career prospects

The programme provides an excellent platform for you to move on to PhD studies but the knowledge and skills acquired are also highly transferable to other professions. Positions held by recent graduates include Development Director, Professor, Correspondent and Freelance Journalist. Others have worked in the armed services, diplomatic service or for a diverse range of IGOs and NGOs.

## Research opportunities

We offer a PhD in War Studies.

You may want to identify a potential supervisor and contact him or her to discuss your research proposal before you apply.

For more information, visit [glasgow.ac.uk/humanities/warstudies](http://glasgow.ac.uk/humanities/warstudies)

‘The War Studies MLitt is a stimulating degree offering the opportunity to explore an array of fascinating aspects of military history guided by dedicated and engaging staff, which enables students to produce research of the highest standard in a fulfilling academic environment.’

Elodie, UK  
War Studies (MLitt) graduate



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# THE SMALL PRINT

This publication is intended to help you choose your programme of study at the University of Glasgow. It does not replace the University Calendar as a statement of the University regulations.

All students will be required as a condition of enrolment to abide by, and to submit to the procedures of, the University's rules and regulations, as amended from time to time. A copy of the current regulations is available at: [glasgow.ac.uk/calendar](http://glasgow.ac.uk/calendar) or on request, from the Registry: [glasgow.ac.uk/registry](http://glasgow.ac.uk/registry)

Every effort has been made to ensure the accuracy of the information contained within the prospectus but it is subject to alteration without notice. The University will use all reasonable endeavours to deliver programmes in accordance with the descriptions set out in the prospectuses. The University, however, reserves the right to make variations to the content or methods of delivery of programmes, to discontinue programmes and to merge or combine programmes, if such action is reasonably considered to be necessary by the University. If the University discontinues any programmes, it will use reasonable endeavours to provide a suitable alternative programme. In the event of industrial action or other circumstances beyond the control of the University that interferes with its ability to provide these programmes or services, the University will undertake to minimise disruption as far as is practicable.

## Programme alteration or discontinuation

The University of Glasgow endeavours to run all programmes advertised at the beginning of an application cycle. However, all programmes run subject to a minimum number of students registering for the programme and academic staff being in place to run the programme. Therefore, in exceptional circumstances, the University may withdraw a programme during an application cycle. If a programme is withdrawn or altered then the University will inform any applicants at the earliest opportunity of the withdrawal or significant change. In cases where a programme is withdrawn completely then all offer holders will be offered the closest alternative that is available. If an alternative programme is not available then Admissions will offer advice regarding any other suitable programmes. If an applicant does not wish to accept the University's offer of a replacement programme or the University is unable to offer a replacement programme, the University will withdraw the application. In the event that an application is withdrawn due to a programme alteration or withdrawal, the University will offer a full refund of any application fee and/or deposit paid. Programmes may occasionally be advertised and accept applications prior to full approval by the University's Senate. In these cases it will be made

clear on the University's website and in the offer letters that the programme is subject to approval. In the unlikely event that the programme is not approved then all applications will be withdrawn and applicants offered an opportunity to apply for an alternative programme where one is available.

## Data Protection Act

The University collects and processes information, including images, about its students, applicants and potential applicants, for academic, administrative, management, pastoral, and health and safety reasons.

Some of this information is considered as sensitive personal data in the terms of the Data Protection Act 1998. The information is provided by a student, applicant or potential applicant or on his/her behalf. It is not possible to become, or remain, a registered (matriculated) student, or to process an application without agreement to provide this information. The information is processed in accordance with the Data Protection Act 1998 (see the University's Notification to the Information Commissioner's Register of Data Controllers [ico.org.uk/about-the-ico/what-we-do/register-of-data-controllers](http://ico.org.uk/about-the-ico/what-we-do/register-of-data-controllers) Registration Number Z6723578), and is disclosed to third parties only with students' consent, to meet a statutory obligation or where there is a legitimate interest to do so (please see section 3.1 of the University Calendar for more information).

## Equality and diversity

The University of Glasgow is committed to promoting equality in all its activities, and aims to provide a work, learning, research and teaching environment free from discrimination and where difference is positively valued. The University's equality policies and other useful sources of information are available on the website at [glasgow.ac.uk/equalitydiversity](http://glasgow.ac.uk/equalitydiversity)

## Refund of private fee contributions

For the University's refund policy, please see [glasgow.ac.uk/postgraduate-feesandfunding/policies/refund](http://glasgow.ac.uk/postgraduate-feesandfunding/policies/refund)

## Additional fees

In common with other universities, students on certain programmes at the University of Glasgow may incur additional expenditure on items such as fieldwork, specialist materials and supplementary instrumental tuition; although some assistance from University funds may be available to meet such expenditure, responsibility for payment will rest with the student. In addition, small charges may be made in some subjects for such items as course materials, photocopying and laser printing; detailed information may be obtained from the University's schools or colleges.

## General Council registration fee

All first-time graduates from the University of Glasgow must, prior to graduation, pay a registration fee to become a member of the University's General Council. Payment of the fee means that your name will be entered in the Register of Graduates and you will be entitled to attend the twice-yearly statutory meetings of the Council and vote in its elections. You will also receive regular mailings from the Council, which will include the University's Annual Review.

## Validated Institutions

The University is proud of its association and validation relationship with three independent institutions: The Glasgow School of Art, Scotland's Rural College and Edinburgh Theological Seminary. If you apply for a programme at one of these institutions, you will be registered with that institution and will pursue your studies there but your final degree will be conferred by the University of Glasgow. Applications to one of the validated institutions should be made to the institution concerned and not to the University.

As a student of a validated institution you are deemed to be an 'associated student' of the University which entitles you to access certain University facilities. For further details of the facilities available to you please contact the institution concerned.

## Credits

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