THE UNIVERSITY OF GLASGOW

Founded in 1451, the University of Glasgow is the fourth oldest university in the English-speaking world, recognised internationally for its ground-breaking work. We are one of the top 100 of the world’s universities* and have been named Scottish University of the Year by the Times and the Sunday Times Good University Guide 2018. The University of Glasgow has a reputation for research that benefits industry, society and the environment, and is a founding member of the prestigious Russell Group of leading UK research universities and Universitas 21, an international grouping of universities dedicated to setting worldwide standards for higher education.

Glasgow scores consistently well in league tables and was thrilled to be the first university in the UK to attain a five-star plus award in the QS World University Rankings.

Many distinguished figures have taught, worked and studied at the University of Glasgow, including seven Nobel laureates. Famous names include ‘father of economics’ Adam Smith, the physicist Lord Kelvin, engineers James Watt and William Rankine, Joseph Lister, and pioneer of television, John Logie Baird.

*QS World University Rankings 2018

Excellence in teaching
A research-led approach is one of the reasons why a degree from the University of Glasgow is so prized and students also benefit from a commitment to providing an intellectually stimulating learning environment. Students at the University of Glasgow learn from dedicated teaching staff, recognised as leaders in their fields. Students are guided in developing the ability to direct their own learning, ensuring they graduate equipped with the skills they need to compete in a global workplace.

An international community
Glasgow’s outstanding reputation for research, vast experience and investment in facilities all contribute to make the University an attractive choice for the best students from across the globe.

Glasgow welcomes students from more than 140 countries and University staff collaborate with some 200 institutions around the world. We know that the friendships and networks our students make at University can last a lifetime - we are in touch with 156,000 alumni globally.
The University of Glasgow has a long tradition of welcoming students from Singapore with around 1,400 alumni currently in Singapore. In January 2011, the University continued this tradition by forming an exciting new partnership with Singapore Institute of Technology to deliver University of Glasgow degree programmes in Singapore, allowing students to gain a highly prized international qualification in their home country.

Through this partnership, students with good grades in a relevant polytechnic diploma from one of the five local Polytechnics have the opportunity to upgrade their qualification to an honours degree from the University of Glasgow with just two years of further study, mainly in Singapore. The degree programmes delivered under this route are:

- BEng (Hons) Aeronautical Engineering
- BEng (Hons) Aerospace Systems
- BEng (Hons) Mechanical Design Engineering
- BEng (Hons) Mechatronics
- BSc (Hons) Computing Science

In 2016, the collaboration between the University of Glasgow and Singapore Institute of Technology entered a new phase with the launch of a jointly awarded degree in Nursing. A second jointly awarded degree in Civil Engineering was launched in 2017 to add to this complement:

- BSc (Hons) Nursing
- BEng (Hons) Civil Engineering

Singapore Institute of Technology (SIT) is Singapore’s university of applied learning. It aims to be a leader in innovative university education by integrating learning, industry and community. SIT offers applied degree programmes targeted at growth sectors of the economy. As Singapore’s university of applied learning, SIT offers its own applied degree programmes with a unique pedagogy that integrates work and study. It also offers specialised degree programmes in partnership with world-class universities.

To find out more about SIT, visit singaporetech.edu.sg

‘The University of Glasgow partnership with Singapore Institute of Technology provides me with an opportunity to learn from a top-notch school from home. This I can’t get anywhere else.’

Lim Cheng Leong
Mechatronics

THE UNIVERSITY OF GLASGOW SINGAPORE

SINGAPORE INSTITUTE OF TECHNOLOGY
An exciting feature of all degree programmes is the Overseas Immersion Programme (OIP) which gives all students the opportunity to spend three or four weeks in Glasgow in the summer period during their study. Students will follow an intensive course of study during this time which is credit-bearing for their degree programme.

OIP allows students to study and experience student life in Glasgow, attend industrial visits or observations, and spend some time getting to know the university campus and staff.

It is also a great opportunity to explore the city of Glasgow and surrounding areas in Scotland, as well as further afield throughout the UK.

‘The Overseas Immersion Programme provided us with a wonderful experience. Studying in a foreign land allowed us to move out of our comfort zone.’

Koung Jian Yu
Computing Science
STUDY IN GLASGOW

With cultural attractions, impressive architecture, fantastic shopping, friendly people and a year-round programme of world-class events, it’s easy to fall in love with Glasgow and Scotland.

LOVE GLASGOW

Glasgow is Scotland’s largest city, home to people of many nationalities. Despite its size, it’s easy to travel around, whether you chose to walk, take the bus, or use the subway. The University’s main campus is nestled within Glasgow’s cozy West End, which buzzes with cafes, bars, vintage boutiques and cultural attractions.

Studying in Glasgow

Glasgow is consistently voted the top place to shop in the UK outside London, and as the UK’s first UNESCO City of Music, the city hosts around 130 music events every week. With more than 90 parks and public gardens, Glasgow also has more green space per head of population than any other European city. The city’s nightlife is fantastic too, with more than 700 bars, pubs and nightclubs, plus seven cinemas, including the latest in Europe.

LOVE SCOTLAND

Scotland has lots to offer you – beautiful scenery, ancient castles and amazing cultural attractions. The University’s location in the Central Belt makes it easy for you to explore our beautiful country – Glasgow is a gateway to the Scottish Highlands, with Loch Lomond less than an hour’s drive away.

Scotland has beautiful beaches, offering opportunities for water sport activities, relaxing strolls and marine life spotting. Our iconic Munros (mountains over 3,000 feet) have spectacular views, while Scotland’s many coastal islands each have their own unique character, landscape and wildlife.

Don’t forget to explore Scotland’s cities too. Check out the nation’s capital, Edinburgh, uncover Stirling’s historic buildings and castle, or go hunting for the Loch Ness monster near Inverness.

Find out more: peoplemakeglasgow.com
visitscotland.com
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 School of Computing Science was ranked top 10 in the UK in The Complete University Guide 2017 and 60th in the world in the World University Rankings by Subject 2017.

- In the UK’s 2014 independent research exercise (REF), we were rated top in Scotland for research impact and 6th in the UK for research intensity.

- We have 38 academic staff and approximately 40 research staff, and host more than 100 externally funded research projects with a value of approximately £3m each year.

- We accommodate around 1000 undergraduate and postgraduate students each year.

- We are a major partner in the Scottish Informatics & Computer Science Alliance which promotes collaborative research in computer science across Scotland.
Computing science is the study of information, computation and computational thinking. It is wide-ranging, from programming, programming languages and engineering large software systems, to the design and evaluation of human-computer interfaces, algorithms, computer and network systems, and information retrieval and storage systems. This programme will provide you with a deep understanding of the theory and practice of computing and give you the opportunity to study a broad range of computer science topics. The programme encourages independent study habits that will stand you in good stead throughout your professional career.

**BSc (HONS) IN COMPUTING SCIENCE IN PARTNERSHIP WITH SINGAPORE INSTITUTE OF TECHNOLOGY**
glasgow.ac.uk/undergraduate/degrees/singaporeprogrammes

You will study almost the same programme in Singapore as students on campus in Glasgow in the final two years of their BSc (Hons) degree.

In the summer before year 1 you may be required to study two short courses on algorithmic fundamentals and Linux. These courses are intended to bridge gaps between the eligible diploma programmes and the collaborative programme.

**Year 1**
In your first year you will study
- Team Project
- Professional Software Development
- Advanced Programming
- Algorithms
- Database Systems
- Interactive Systems
- Networked Systems
- Operating Systems
- Programming Languages.

**Year 2**
In your second year you will study
- Individual Project
- Big Data
- Cyber Security Fundamentals
- Distributed Algorithms & Systems
- Human-Computer Interaction
- Information Retrieval
- Mobile Human-Computer Interaction
- Web Science
- Safety-critical Systems Development.

During the vacation between years 1 and 2 you will study Professional Skills & Issues in Glasgow.

*‘I had an enriching experience during the two years of studying in UoG-SIT. I learned lots of practical skills as well as theoretical knowledge. The one month stay in Glasgow was awesome.’*
Bang Er Quan
Computing Science

**WE CELEBRATED THE 60TH ANNIVERSARY OF COMPUTING AT GLASGOW IN 2017**
The University established a Regius Chair of Civil Engineering and Mechanics in 1840, making Glasgow the oldest university school of engineering in the UK. We have been delivering a world-class engineering education for more than 160 years, building and sustaining an excellent international reputation.

• Each year our 2,500 undergraduate and postgraduate students are taught by staff renowned for their leading-edge research.
• In the UK’s 2014 independent research exercise (REF), we were placed within the top 5 in the UK for our “internationally excellent” and “world-leading” research.
• We have access to excellent facilities and collaborate with other leading universities and research institutes worldwide on a range of projects that address the technological needs of society.
• The education we provide is informed and supported by our links with industry and industrially relevant research. In Singapore, the UofG-SIT programmes seek to provide students with various dimensions of exposure to local industry in order to enhance their employability upon graduation.
• All of our existing MEng and BEng degrees are accredited by their respective professional bodies.
Aeronautical engineering is a highly advanced engineering discipline about how flight is possible and how flying vehicles are designed, manufactured, powered, operated and safely controlled. Vehicles range from fixed-wing aeroplanes to helicopters with rotary wings, and from small unmanned drones to large commercial airliners. You will learn to analyse and understand the vehicle’s behaviour, predict its performance, understand its propulsion and power systems, and perform detailed design of structural components. Individual project work will give you a fantastic opportunity to apply all the knowledge, skills and understanding gained throughout your studies.

BENG (HONS) IN AERONAUTICAL ENGINEERING IN PARTNERSHIP WITH SINGAPORE INSTITUTE OF TECHNOLOGY
glasgow.ac.uk/undergraduate/degrees/singaporeprogrammes

Programme structure
You will study almost the same programme in Singapore as students on campus in Glasgow in the final two years of their BEng (Hons) degrees. A few small changes have been made to adapt the programme for polytechnic graduates. For example, we have added two courses on mathematics to prepare you for the advanced analysis in some of the modules.

An exciting feature of the programme is a visit to Glasgow during the vacation between the two years, when you will carry out a preliminary aircraft design project and perform aerofoil experiments in a wind tunnel. You will also be introduced to Scottish culture.

Year 1
Prior to the commencement of the academic session you will study the pre-sessional course, Applicable Mathematics 2S.

In your first year you will study
• Applicable Mathematics 3S
• Aircraft Performance 3S
• Simulations in Engineering Systems 3S
• Propulsion and Turbomachinery 3S
• Aircraft Structures and Materials 3S
• Aerodynamics and Fluid Mechanics 3S
• Dynamics 3S
• Control 3S
• Instrumentation and Data Systems 3S
• Flight Mechanics 3S
• Aircraft Structural Analysis and Design 3S.

During the vacation between years 1 and 2 you will study Aircraft Design 3G in Glasgow.

Year 2
In your second year you will study
• Flight Dynamics 4S
• Professional Practice 5S
• Aircraft Structures and Materials 4S
• Aerospace Design Project 4S
• Final Year Project 4S
• High-speed Aerodynamics 4S
• Industrial Aerodynamics 4S
• Computational Fluid Dynamics 4S.

Accredited by the Royal Aeronautical Society and the Institution of Mechanical Engineers on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

WE ARE THE ONLY UNIVERSITY IN SCOTLAND TO OFFER A BEng(HONS) DEGREE IN AERONAUTICAL ENGINEERING.
The study of aerospace systems requires a fusion of concepts from aeronautical, electrical and systems engineering. Virtually all modern aircraft, from airliners to micro unmanned systems, rely on complex and comprehensive onboard systems. You will learn how these systems are designed, implemented and operated, and how they can lead to improvements in the operation, performance and safety of aerospace vehicles. Individual project work will give you an excellent opportunity to apply all of the knowledge, skills and understanding gained throughout your studies. This degree programme will help you to embark on a career in the aerospace and related industries.

Programme structure
You will study almost the same programme in Singapore as students on campus in Glasgow in the final two years of their BEng (Hons) degrees. A few small changes have been made to adapt the programme for polytechnic graduates. For example, we have added two courses on mathematics to prepare you for the advanced analysis in some of the modules.

An exciting feature of the programme is a visit to Glasgow during the vacation between the two years, when you will carry out a team project to develop guidance and control algorithms for rotorcraft vehicles. You will also be introduced to Scottish culture.

Year 1
Before the start of the academic session you will study the pre-sessional course, Applicable Mathematics 2S.
In your first year you will study
• Applicable Mathematics 3S
• Aircraft Performance 3S
• Simulations in Engineering Systems 3S
• Propulsion and Turbomachinery 3S
• Real-time Computer Systems 3S
• Communication Systems 3S
• Dynamics 3S
• Control 3S
• Instrumentation and Data Systems 3S
• Flight Mechanics 3S
• Software Engineering 3S
• Electromagnetic Compatibility 3S.

During the vacation between years 1 and 2 you will study Aerospace Systems Team Design 3G in Glasgow.

Year 2
In your second year you will study
• Flight Dynamics 4S
• Professional Practice 5S
• Aerospace Systems Design Project 4S
• Control 4S
• Navigation Systems 4S
• Radar and Electro-optic Systems 4S
• Final Year Project 4S.

Accredited by the Royal Aeronautical Society and the Institution of Mechanical Engineers on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

WE ARE THE ONLY UNIVERSITY IN SCOTLAND TO OFFER A BEng (HONS) DEGREE IN AEROSPACE SYSTEMS.
Civil Engineers design, develop and create the built environment which surrounds us by improving our quality of life across a wide variety of sectors. In order to prepare students for this dynamic industry, the programme at SIT encompasses a wide range of topics ranging from the study of buildings, bridges and transport systems through to geotechnics, dams, water supply and environmental engineering. In order to produce industry-ready graduates, there is a particular focus on project-based learning. This takes place through a three week Overseas Immersion Programme (OIP) in Glasgow, UK and an Integrated Work Study Programme (IWSP) which comprises an eight month structured learning programme embedded in industry. These pivotal projects alongside the carefully designed course structure will provide you with the knowledge, skills and understanding to help you embark on a career within this exciting, fast-changing profession. Flexible programmes that cater to full-time or SkillsFuture Work-Study are available.

Programme structure

An exciting feature of the programme is a visit to Glasgow during the vacation between the second and third years, when you will carry out a group structural design-based project which will examine both the conceptual and detailed aspects of structural design.

Year 1
In your first year you will study
• Civil Engineering and Sustainable Built Environment
• Engineering Physics
• Engineering Mathematics I
• Civil Engineering Skills
• Statics and Structural Mechanics
• Graphical Communication
• Effective Communication
• Engineering Mathematics II
• Fluid Mechanics
• Civil Engineering Materials
• Engineering Geology and Soil Mechanics.

Year 2
In your second year you will study
• Engineering Mathematics III
• Hydraulics and Hydrology
• Structural Analysis I
• Geotechnical Engineering
• BIM for Civil Engineers
• Transportation Engineering
• Environmental Engineering
• Structural Analysis II
• Structural Design
• Professional Communication and Development
• Foundation Engineering
• Construction Technology
• Design of Steel and Concrete Structures
• Seminar and Site Visit
• Design Project OIP at Glasgow.

During the vacation between years 2 and 3 you will take part in an overseas immersion programme which will be based on a structural design project.

Year 3
• Integrated Work Study Programme
• Project Planning and Management
• Civil Engineering Practices
• Ground Engineering
• Rail Engineering
• Capstone Project

To be accredited by the Engineering Accreditation Board (EAB) in Singapore

MENGTECH
Following successful completion of the BEng (Hons) degree, SIT will offer graduates the opportunity to study the one year MEngTech postgraduate degree.
The University of Glasgow Singapore is different because it taught me how to teach myself.

Kelvin Loh
Mechanical Design Engineering

The Mechanical Design Engineering Honours degree programme equips students with knowledge, understanding and skills for mechanical engineering and design with greener concepts, technologies and methodologies for the benefit of society.

This degree programme seeks to meet the industrial challenges and greener demands by producing innovative engineers with the capabilities and aptitude for the design of novel engineering products, especially in key industries in Singapore such as aerospace, maritime, robotics and healthcare.

Mechanical design engineers are essential for the design and development of mechanisms, components and structures which are integral parts of the automotive, marine, aerospace, biomedical, chemical, construction, environmental, and power-generation industries among others.

Programme structure
You will study almost the same programme in Singapore as students on campus in Glasgow in the final two years of their BEng (Hons) degrees. A few small changes have been made to adapt the programme for polytechnic graduates. For example, we have added a revision course (Applicable Mathematics 2N) to prepare you for the advanced analysis in some of the modules. SIT will also conduct two bridging courses for Mathematics and Physics (20 hours in total) at no cost to the student before the commencement of the programme.

An exciting feature of the programme is a visit to Glasgow during the vacation between the two years, when you will carry out a design project in Design and Manufacture 3G and you will be introduced to Scottish culture.

Year 1
In your first year you will study
• Applicable Mathematics 2N
• Dynamics 3N
• Control 3N
• Mathematical Modelling and Simulation 3N
• Mechanics of Materials and Structures 3N
• Instrumentation and Data Systems 3N
• Engineering Design 3N

During the vacation between years 1 and 2 you will study Design and Manufacture 3G in Glasgow.

Year 2
In your second year you will study
• Advanced Materials Technology 4N
• Microelectronics in Consumer Products 4N
• Project 4N
• Professional Practice 5N
• Materials and Manufacture 3N
• Control 4N
• Mechanics of Solids and Structures 4N
• Mechanical Design 4N

Accredited by the Institution of Mechanical Engineers and the Institution of Engineering Designers on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.

‘The University of Glasgow Singapore is different because it taught me how to teach myself.’
Kelvin Loh
Mechanical Design Engineering

glasgow.ac.uk/undergraduate/degrees/singaporeprogrammes
The Mechatronics Honours degree programme equips students with knowledge, understanding and skills for synergistic integration of mechanical engineering with electronics and intelligent computer control in the design and manufacturing of greener industrial products and processes. This interdisciplinary programme allows students to combine traditionally divided disciplines with an industry focus for varied career opportunities, especially to meet the increasing demand in greener products and processes and in sustainable manufacturing in Asia.

Mechatronics engineers excel in their work on hybrid systems in varied fields of research and development such as environmentally friendly transportation systems, production systems, synergy drives, planetary exploration rovers, automotive subsystems such as anti-lock braking systems, smart homes and buildings, and intelligent aids for the elderly and disabled.

Programme structure

You will study almost the same programme in Singapore as students on campus in Glasgow in the final two years of their BEng (Hons) degrees. A few small changes have been made to adapt the programme for polytechnic graduates. For example, we have added a revision course (Applicable Mathematics 2N) to prepare you for the advanced analysis in some of the modules. SIT will also conduct two bridging courses for Mathematics and Physics (20 hours in total) at no cost to the student before the commencement of the programme.

An exciting feature of the programme is a visit to Glasgow during the vacation between the two years, when you will carry out a design project in Mechatronics Team Project 3G and you will be introduced to Scottish culture.

Year 1
In your first year you will study:
- Applicable Mathematics 2N
- Electronic System Design 3N
- Engineering Design 3N
- Mathematical Modelling and Simulation 3N
- Mechanics of Materials and Structures 3N
- Real-time Computer Systems 3N
- Dynamics 3N
- Control 3N
- Instrumentation and Data Systems 3N
- Power Electronics 2N
- Software Engineering 3N

During the vacation between years 1 and 2 you will study a Mechatronics Team Project 3G in Glasgow.

Year 2
In your second year you will study:
- Professional Practice 5N
- Electronic System Design 4N
- Control 4N
- Autonomous Vehicle Guidance Systems 4N
- Robotics 4N
- Project 4N.

Accredited by the Institution of Mechanical Engineers on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as an Incorporated Engineer and partly meeting the academic requirement for registration as a Chartered Engineer.
The Nursing and Health Care School at the University of Glasgow was established with the aim of producing Graduate Nurses who are grounded in health related scientific theory. The School has a national and international reputation for nursing education and research with the patient/client as the focus of health care.

- Our Nursing programme prepares its graduates for all areas of care and, on qualifying, our nurses have been employed throughout the UK and the rest of the world.
- We have access to excellent facilities and enjoy well-established relationships with clinical staff across NHS Greater Glasgow and Clyde where students have clinical placements.
- Our research activity is multi-professional, patient-centred and collaborative and sits mainly within the themes of Improving Health, Wellbeing and Care and Education.
- We consistently rank highly within league tables and are delighted to have ranked 1st for Nursing in the UK again (The Complete University Guide, 2018).
The Bachelor of Science with Honours in Nursing is a two-year post registration programme offered jointly by SIT and the University of Glasgow (UofG). The nursing programme has been co-created and designed with inputs from practice partners in Singapore’s healthcare system across the care continuum, education partners, and the Ministry of Health. Building on the foundation that students have established during their nursing diploma studies, this programme will develop students’ critical, analytical and innovative skills, as well as their leadership, research, teaching, and clinical competencies. With an emphasis on the integration of knowledge and practice in the delivery of patient care, students will undergo module-focussed clinical placements in hospitals and the community throughout the programme. Apart from developing theoretical knowledge and clinical skills, they will gain an insight into health and social policies, and apply innovation in healthcare, as well as strengthen their skills in interdisciplinary collaboration and partnerships.

Programme structure

The SIT-UofG Nursing programme has a range of courses designed to equip students with relevant knowledge and skills that will help them meet the healthcare challenges of Singapore, prepare them for leadership roles, and take the nursing profession forward.

**Year 1**

In your first year you will study

- Trimester 1
  - Healthcare Ethics and Law
  - Qualitative Research Methods
  - Health Assessment and Clinical Reasoning*
  - Health Systems: Singapore’s Perspectives
- Trimester 2
  - Critical Analysis of Evidence and Clinical Application
  - Fostering Evidence-Based Practice (EBP) in Clinical Settings
  - Health Innovation and Informatics*
  - Quantitative Research Methods and Statistical Appraisal
  - Development in Nursing Practice
- Trimester 3
  - Population Health
  - Health and Social Policy
  - Intermediate and Long Term Care
  - Overseas Immersion Programme (OIP) – 4 week programme in Glasgow

**Year 2**

In your second year you will study

- Trimester 1
  - Teaching and Learning*
  - Leadership and Change Management
  - Integrated Work Study Programme (Clinical Placements)**
- Trimester 2
  - Honours Thesis

* Includes 2 weeks of clinical placement in Singapore
** This course aims to develop graduates who are reflective practitioners

The Nursing programme has received accreditation from the Singapore Nursing Board (SNB).
The University of Glasgow welcomes students from more than 140 countries.

CONTACT US

For enquiries please contact the following offices:

Computing Science
University of Glasgow Singapore @ Republic Polytechnic,
Email: Singapore-cs-RP@glasgow.ac.uk
Telephone: +65 6908 6040.

Aeronautical Engineering and Aerospace Systems
University of Glasgow Singapore @ Singapore Polytechnic,
Email: Singapore-eng-SP@glasgow.ac.uk
Telephone +65 6908 6032.

Mechatronics and Mechanical Design Engineering
University of Glasgow Singapore @ Ngee Ann Polytechnic,
Email: Singapore-eng-NP@glasgow.ac.uk
Telephone: +65 6908 6200.

Civil Engineering and Nursing
Singapore Institute of Technology,
Email: Adm@SingaporeTech.edu.sg (for local students) or
Adm.Intl@SingaporeTech.edu.sg (for international students)
Telephone: +65 6592 1136.

For enquiries about financial aid, scholarships and pre-matriculated students,
Email: FAS@SingaporeTech.edu.sg or telephone
+65 6592 1150.

For general admission enquiries,
Email: Adm@SingaporeTech.edu.sg (for local students) or
Adm.Intl@SingaporeTech.edu.sg (for international students)
or telephone +65 6592 1136.